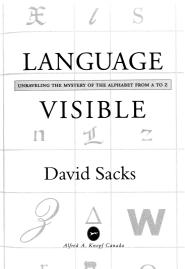


## LANGUAGE VISIBLE







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#### PREFACE

This book attempts a voyage of discovery among the letters of the alphabet. Like islands of an archipelago, the 26 letters will be visited and explored, one at a time. Each islands geography and local lore will be examined briefly, also its relationship to other islands in the navigational stream. Some islands may prove more lush to offey than others. But any one will yield substantial mental nourishment to visitors, along with glorious vistas onto language, literature, and history of the past 4,000 years.

Where do our letters come from? How did they get their shapes, their assigned sounds, their sequence, immortalized in our "Alphabet Song"? Why do we use "Roman" letters for English also for Spanish, Czech, Turkish, Swahili, Vietnamses, and many others—while some languages (Russian, Greek, Arabic, Hindi, etc.) use different types of letters? What is a letter, exactly? What's an alphabet? These are among questions to be answered with authority and zet.

And smaller questions, perhaps more intriguing. Why is X the unknown? What is The Story of O? Where did Irish rock band U2 get its name? Why does "mother" start with M? What's O's source of pride? Which two letters came last to the alphabet? (Answer: J and V) Why is Z called "zee" in the United States but "zee" in Britain and other Commonwealth countries? Which animal did A originally symbolize? (An ox: the A's legs were horns, pointing upward, 3,000 years ago.)

Every letter has its own chapter here. Typically, the chapter beriefly explains he letter's origin in macient Near Eastern alphabets, including the Phoenician alphabet of 1000 n.C. (In this sapert, the book has benefited from a spectucular archaeological discovery made public in A.D. 1999 that placed the alphabet's invention in Egypt, sometime around 2000 n.C.) Each chapter races its letter's history through ancient Greece and Rome, medieval England, and subsequent stages, and discusses the letter's notworthy robe in literature, traditional iconography, modern marketing and pop culture, and other categories. V for Victory. Presidential "Dybay" (W), Xbox, X-Pile, X-Men.

Each chapter tries, where possible, to find the letter's single chief significance for modern readers—its "personality," as expressed through speech or visual media. For instance, letter A means quality, B is forever second best. C is inconsistent in sound: Its troubles with commitment stem from an unstable childhood. O's shape can be highly inviting. S is the letter of the serpent, whether for evil or for nature. N needs your nose for pronunciation. And H, phonetically, basely outsilities as a letter at all.

As its title suggests, the book is partly about languages: English first of all, but alo Latin, Greek, ancient Semitic tongues (of which Hebrew is the closest modern equivalent), medieval and modern French and other Romance tongues, and German, all relevant to the story of our 20 letters. While I don't speak every one of those languages, I have background in a few and have strived for accuracy in research.

The book uses language topics as the key to explaining the al-

phabet. Letters are images of language. They were invented, around 2000 B.C., to show timy sounds of speech. Letters, when combined correctly, re-create the sounds of words (whether in English, ancient Greek, Arabis, Russian, etc.). If you take the spoken tongue as your starting point—any language outside of a text that was spoken long before it began to be writters—and you picture an alphabet being fitted to the language, like clothing, amid adjustments, then the history and meaning of the letters become suddenly clearer.

Some books on the alphabet have viewed the letters primarily as items of visual design. Visual, indeed handsome, they surely are. But that approach makes it tough to explain how a letter got its sound(s), especially regarding irregularities. Why does C go soft in pronunciation before E, I, or Y Why does D mean the sound "j" in English but "h" in Spanish and "y" in German? Such questions are easier to answer if you begin with the language sounds, not the written symbol.

Yet this is no textbook. It does not deal exhaustively with the seven to the control of the con

The basis for this book was a 26-part weekly series that I wrote about the letters of the alphabet for the Ottawa Citizen newspaper (Ottawa, Ontario). The series covered one letter per week, from lanuary to July 2000.

But the first inspiration dates to 1993, when I was at work on my one previous book, the Eucyclopedia of the Ancient Greek World (Facts On File, 1995). Facing a huge assignment beyond my rudimentary knowledge. I was anxiously researching the ancient Greeks. One topic was the Greek alphabet, including its origin, someime around 800 n.c. I had learned in college that the Greeks, with no writing of their own at the time, acquired their alphabet by copying it from the Phoenicians (a Semitic people famed as scafarers, based in what is now Lebanon). I could have written those words on an exam—"the Greeks took their alphabet from the Phoenicians"—without understanding what that meant. I had always imagined some imitation by analogy: that the Greeks, impressed by the Phoenician letters, had gone off and invented two dozen letters of their own, to be Greek letters.

But my studies of 1993 taught me differently. The Greeks had copied more literally than that. (Pardon the pun.) The Greeks didn't copy just the idea of the Phoenician alphabet; they actually copied the Phoenician letters and started using them to write Greek.

Does it sound trivial? At the time, the realization stunned me. The ancient languages of Greek and Phoenician were as different as English and Arabic. Greek was (and is) a language of the Indo-European family; its modern relatives include English, German, Spanish, and Russian. The Phoenication topue, now vanished, belonged to a separate language group. Semitic, whose major modern representative is Arabic, although Phoenician isaled was probably closer to Hebrew. Semitic and Indo-European languages do not sound at all alike; their vocabularies are unrelated. And yet . . .

The Phoenician alphabet had 22 letters, the earliest working Greek alphabet, probably 26. The first 22 letters of the Greek list were nearly identical to the Phoenician in sequence, shapes, names, and, usually, sounds (with the exception of five vowel letters, which the Greeks had invented by reassigning certain Phoenician letters to symbolize wowel sounds). In later centuries the Greeks would adjust their alphabet ways from the Phoenician model. But around 800 Re., it seems the Greeks picked up

Phoenician letters, made some changes and additions, and began writing.

What if a bunch of illiterate Anglo-Saxons in A.D. 600 had gotten their hands on the Arabic alphabet and started using it to write Old English? Could they have done so? I wondered. Wasn't that basically what the Greeks did?

There must, I thought, back in 1993, be more to these letters than I understood. How could Phoenician letters be so adaptable? Logically, wouldn't most of them be unusable for Greek, since the two languages were so different?

Eventually I moved on from the ancient Greece book, got a day job, and turned to a new mental interest: the history of the alphabet. I had never studied it before, but felt compelled to do so now. There seemed something fundamental here that I had missed in my education.

What I found was that alphabets have routinely iumped from language to language, across all sorts of language barriers, down through history, thanks to the adaptability of letters generally. Our Roman alphabet in English is the product of four such leaps: After being copied from Phoenician letters, the Greek letters were copied, in turn, by a different people, the Etruscans of Italy (around 700 B.C.). Etruscan was a tongue as different from Greek as Greek was from Phoenician, yet the letters adapted easily: They now became Etruscan letters, for showing Etruscan speech. Then the Etruscan letters were copied by other Italian peoples, including the Romans, whose language, Latin, was totally unlike Etruscan. Again the letters had made the jump. As Rome conquered Italy and lands beyond, the Roman alphabet became the writing of Roman Europe, Surviving the empire's collapse (around A.D. 500), Roman letters were fitted to newer tongues, including primitive English (around A.D. 600). Today those letters have grown up to become our own.

English is by no means the only example. Roman letters to day convey the sounds of other tongues that Cicero never heard of Polish, Zulu, Azerbaijmi, Indonesian, Nivajo—and about ioo more, all in daily use. The Cyrillic alphabet works equally well for Bulgarian and Mongolian as for Russian. Arabic letters, devised originally to show the Arabic language, provide writing in Iran, Pakistan, Malaysia, and other places where people don't speak Arabic. Behind such facts lies the letten' ability to leap across languages.

The more I dug into this, the more important it seemed. I was findly getting the idea that the letters have a kind of gentius—a genius for showing the sounds of speech. Because they denote the smallest particles of sound ("t," "p," "m," "u"), letters in quantity are beautifully flexible and precise. They can be arranged in endless combinations, as necessary, to capture sounds of words. This allows the letters to be fitted from one language to another: You could easily write English phonetically, in the letters of Hebrew or Cyrillic. (Bored office workers at computers do it idly) "People don't understand this concept." I recall thinking,

"This isn't being taught at school."

I had learned a new respect for the alphabet, and from this point—for it was just a beginning—I proceeded to dip into other aspects of the story: typography, phonetics, the individual letters' use in brand names and design, the whole psychological message felteters in certain presentations. What I uncovered was a trove of wisdom and lore worth celebrating. And worth sharing.

Name of Scripe	Number of Users Worldwide (Primary Language)	Geographic Range  Americas; Western Europe; parts of Eastern Europe and the former Soviet Union; Turkey; Central and Southern Africa; Oceania; parts of Southeast Asia	
Roman alphabet	1.9 billion		
Chinese script	0.9 billion	China; Taiwan	
Arabic alphabet	291 million	Near East; North Africa; Iran; parts of Central and Southeast Asia	
Devanagari script	260 million	Much of India	
Cyrillic alphabet	252 million	Russia; other parts of Eastern Europe; parts of Central Asia	
Bengali script	125 million	Northeast India; Bangladesh	
Japanese script	118 million	Japan	

About three-quarters of the world's population live in countries where an alphabet or alphabet-based script is the national writing system. This table takes into account varying levels of literacy around the globe in listing the seven most-used scripts, with approximate numbers of users for whom each script is native and the regions where the scripts are indigenous. Of the seven, only the Chinese and Japanese systems are not alphabetic.

#### FAMILY TREE OF THE WORLD'S ALPHABETS

Nearly every alphabet, ours included, has been born from a prior alphabet. The letters have been copied from one language to another



Aside from the nonalphabetic writing systems of China and Japan, almost all major scripts in use today, anywhere in the world, belong to a single "alphabet family," whose principal members are shown here. The family stems entirely from the first Semitic-language alphabet of 2000 B.C. This ancestor produced a prime descendant: the Phoenician alphabet (1000 B.C.), which, from its base in what is now Lebanon, became the launching pad for a global proliferation. By 800 B.C., the convenient Phoenician letters had been copied at least four times into other languages. Two of the resultant alphabets, the Aramaic and the Greek, spawned new alphabets in their own right, and these new alphabets spawned still newer ones, in a steady prorrets east and west across the ancient world.

As the chart shows, our Roman alphabet comes from one such line of descent. The Phoenician alphabet benet the Greek, which benet the Etruscan, which benet the Roman, Originally created for the writing of ancient Latin, the Roman letters survived the Roman Empire's collapse (A.D. 500) to be adapted to new European tongues, including primitive English. Today aspects of these formative stages live on in our modern letters. Our ABC's are end products of their "prior lives" in the Phoenician, Greek, Etruscan, and ancient Roman alphabets.



Has used not alphabe legar another? Amoure through the magical adaptability of lear. Repeating his not be firm down to so to A. Co. No. the learn of adaptable to see copied and films in a sone leegage. The people design the capital give reasons and the season of the capital control of the capital

1300 a.c.

Gradually, the new alphabet would take permanent furn, looking different furn its mount, rejuy set linked historically to it and perhaps retaining a similar sequence of letter sounds. And if the new alphabet, in nern, was observed by outsiders, posting their own hearguage and needing a writing system, then the 'reproductive presen' might begin again. Only one major modern alphabets we yes teach qualit dail historical family; the 3th

combol Hannul custom of Korea, invented from scratch in the mid-2400s A.D.



## LANGUAGE VISIBLE



### LITTLE LETTERS, BIG IDEA

As ke people to name the most consequential inventions of world history, and you'll hear a list probably including the wheel, the telephone, the atomic bomb, the first computing machine. (Comedian Med Brooks, in his 1960s audio skit "The Two-Thousand-Year-Cold Man," Claimed the greatest invention was Saran Wrap.) What might be missing from the answers, overlooked, is the family of little shapes that your eyes are scanning right now: the letters of the alphable. For the alphable was an invention, a spectacularly successful one, Judged on longevity and extent of modern daily use, it compares with the when

The alphabet was invented in Egypt around 2000 B.C. as a writing method to show sounds of words. Without doubt, its earliest reades read aloud, their lips forming the words displayed, (Reading aloud continued to be standard practice throughout ancient and medieval times). The alphabet was not the earliest writing: Egypt, Mesopotamia, and probably China already had nonalphabetic systems. But the alphabet was the most efficient writing system ever found, before or since. Like the wheel, it changed the ancient world, and, like the wheel, it is still with us and has never been superseded.

Today about 4.8 billion people, over three-quarters of humanity, live in countries that use an alphabet or a writing system modified from an alphabet. About 26 major alphabetic scripts are in place worldwide. The International Three are the Roman, Arabic, and Cyrillic alphabets, each serving multiple nations and languages.

Our own familiar alphabet is the Roman, bequeathed to Western Europe by the Roman Empire and tody the most popular script on Earth—weighing in at about 100 languages, 120 countries, and nearly 2 billion users worldwide. The Roman alphabet owes its satistical dominance partly to its use by Spanish (330 million native speakers worldwide), by Portuguese (160 million native speakers), and by the languages of Central and Southern Africa (270 million speakers) as well as by English (350 million native speakers). There are wariations of the Roman alphabet For example, English employs 25 eletters, Finnish, 21; Croatian, 30. But at the core are the 23 letters of ancient Rome. (The Romans lacked, IV, and W.)

Amazingly, with the sole exception of Korea's Hangul script (invented in loadion in the mid-1400 x n.), all of today's alphabetic scripts have a common origin. All can be traced back through history to one source: the first Near Eastern alphabet of 2000 n.e. The finnly the are direct and actual. Our Roman alphabet is a third cousin to the Arabic alphabet, as econd cousin to the Cyrllic alphabet, and a grandchild of the Greek alphabet. True, different alphabets don't untilly look alike (although nearly half of our capital letters strongly resemble their Greek "grand-parents"). But alphabets reveal their kinship in general principles and in their sequences of letter sounds. References to "the alphabet," in this chapter particularly, are meant to include any working alphabet, present or past, such as the Phoenician and Aramaic as well a not ure as well as our case will as our case will so not more as well as our case.

# 茶聞中

Chinese writing symbols typically represent one word each. These translate, from left, as "sea," "hear," and "middle," The "middle" symbol, like other of the oldest Chinese symbols, comes close to being a picture of what it means.

The remaining one-quarter of Earth's population, 1.4 billion people, use nonalphabetic writing. Basically this means China, including Taiwan, and Japan. The Japanese system comes from an adaptation of the Chinese that dates back to the 6008 A.D.

What's the big difference? Why doesn't Chinese writing qualify as an alphabet? In Chinese script, each symbol denotes a whole word of the Mandarin Chinese language. We call such symbols "logograms" (from two Greek most meaning "word letter"). A Chinese symbol is primarily not phonetic; it does not operate by conveying sound. Rather, it conveys the idea behind the word. A few symbols actually show their subject as a stylized picture, like the third one in the chart. That sort of symbol qualifies both as a logogram and as a pictograph (meaning "picture writing").

If we English speakers normally wrote the word "dog" as b\overline{\Overline{O}}, that would be a pictograph. If we wrote "dog" with an agreed-on symbol like \(\overline{O}\), that would be a logogram. But we do neither. We write "dog" with three symbols, not one, which together re-tracet the sound of the word. Each of the symbols (letters) denotes a tiny bit of speech, part of the word's sound. We know the symbol-to-sound code because we had to memorize it. in kindergarten or thereabouts, as the doorway to literacy: "A is for 'apple.' B is for 'ball' . . ."

The letter's sound is the smallest amount possible to isolate, what linguists call a phoneme. A phoneme is an "atom" of language, almost always smaller than a syllable. (At most, a phoneme is a syllable, as in the long I of "icy" or the English word "a" or certain other vowel uses.) Our word "pencil" has two syllables but six phonemes, each nearly disabased by a different letter.

An alphabet is a writing system based on letters, which by definition symbolize phonemes only. The letters combine to show works of a particular language, shared between writer and reader. The alphabet must adequately represent the language by having enough letters with the right sounds—that is, most of the sounds esential to the spoken language. Yet the number of letters needed is surprisingly small: fewer than 30 for most languages. Russia's Cyrillic alphabet has 33 letters; Iran's Farsi-language version of the Arabic alphabet, 32. While India's Devanagari script hits 48, it and related Indian scripts are not purely alphabetic but also straddle the exceptory of a splishay (defined beloat) to

Alphabets exploit the fact that human languages tend to use on many phonemes—only around 20 to 40 per language, typically. No matter how many tens of thousands of words there are in a given tongue, the words, once analyzed, yield only a few dozen basis counts. These are not, of course, the same 40 from language to language: Arabic and English share many sounds, yet Arabic requires certain throat clicks that English speakers cannot make, never having learned them in the cradle. (By the same to-ken, for a mean diversion sometime, ask a Parisian to say the English word "law." He'll struggle to come out with something like "loe.") English has a rather high number of phonemes, between about 44 and 48, depending on regional accent. This abundance is due partly to English's rich heritage, combining Germanic

and Franco-Latin influences, from two different language groups. Nearly half our phonemes are shadings of vowel sounds, such as the A in "law" that gives Parisians such trouble.

We don't need 44 letters for 44 phonemes, because letters can do double duty. English spelling assigns several sounds to all vowel letters (go, got, ton, etc.) and finds extra sounds in letter pairings like OI, CH, and TH.

An alphabet enjoys one huge advantage over any other writing system: It needs fewer symbols. No other system can get away with so few. This makes an alphabet easier to learn. Students need memorize only two dozen or so letters to begin building toward literacy, which typically takes about another five years of instruction.

Because the memorization step is simple enough for five-and six-year-olds, the whole process, with an alphabet, can be completed before students reach working age. The learning need not interfere with earning a living. This crucial fact has made the alphabet historically the vehicle of mass literacy. With the alphabet's invention, the farmer, the shopkeeper, the laborer have been able to read and write—unlike the situation in prealphabetic societies. The very first alphabet was invented, scholars today believe, for humble people who were being excluded from the mosteries of Exertian hierodychilo writine.

Compare our 26 letters to the Chinese system, which involves at least 2,000 symbols for educated daily reading and writing, out of an inventory of about 60,000 symbols overall. Mass literacy became possible in China only with the communist state of 1949. Today Chinese schoolchildren normally take three years longer than Western children to learn to read and write, with most of that extra time devoted to mastering the symbols.

Despite the symbolization problem, China's writing system serves that nation's needs. China has eight regional languages: its



Simple mongly for children to master. Greek letters inhead onto a paperus scroll help provide a literature lesson for a boy in ancient Athens, in the remnant of a painted scene from a ceramic cup, dated between 470 and 450 NC. The legible words hot humera kleei belong to a phrase meaning comething like, "Those whose deeds time makes famoso . . ." perhaps a line of serse.

logogram system, while keyed to Mandarin vocabulary, is at least partly accessible to non-Mandarin-speakers, more so than alphabetic endering would be. Also there is the tone factor. Chinese tongues like Mandarin and Cantonese contain many homonyms, distinguished only by being spoken in different tones of voice. The Mandarin word ma, for instance, could mean "mother," "horse," "scold," "hemp" or other things, depending on tonal modulation. In Chinese writing, the various mas simply command different-looking symbols, whereas alphabetic writing would have trouble making those words look different from each other. The inadequay of an alphabet for Chinese is shown in the sometimes-confusing Pinyin system for transliterating Chinese words into Roman leters.

The need to accumulate symbols has hampered most nonalphabetic systems down through history. In the ancient Near East, rwo major writing forms preceded the alphabet. Both were elabonee, expressive, and confinet on specialists. Egyptian hieroglyphics consisted of pietographs, logograms, and phonetic signs: about 700 pieture symbols, written usually in combinations. Meospotamian cuneiform, as typified by the Balyohinain version, was minity a phonetic script of about 600 symbols, half of them used regularly. Beine phonetic, cuneiform resorduced the sounds of words.

like an alphabet. However, cunciform was a syllabary system—a category worth glancing at, so as to better appreciate the flexibility of our letters.

In a syllabary, the symbols denote whole syllables. The word "pencil" would be two symbols, something like Δ.4, with Δ meaning the sound "pen" and 4 meaning "sil." Simple and reasonable so fir—but, depending on the sounds of your particular language, how useful generally would Δ and 4 be? In English, not very. Your Δ could help spell "pig pen" and 4 could go into window sill," but Δ and 4 would spend much of their time out of use. Meanwhile, other symbols would be needed. As you would be continually inventing new ones, the list would grow into the hundreds.

Some modern tongues do fine with scripe that overlap between an alphaber thindi or Korean, for example. But for English, a syllabary would be chaos. How many lame symbols like A and i would we need—two hundred? With our letters, two symbols like A and B represent nearly 8 percent of our alphabet. We get much better use from A and B than we would from any two syllabary signs.

Because letters work at the phoneme level and are unencumbered by any extra baggage of sound, they achieve maximum efficiency. Our six letters of "pendi" can easily be broken out and rearranged within countless other words—"lien," "Nile," "sipend," "clip"—that sound nothing like "pendi". Letters are the original super-no took: They build on each other as necessary, so you actually need fewer items in your toolkit. With 26, we capture reasonably well the approximately 500,000 words of English. In fact, we could theoretically drop one or two letters—Q, for instance—and spell "queen" as "eween" or "kween."

The genius of the letters is the way they combine simplicity with precision. Although few in number, they are wonderfully flexible and versatile as a group. They can be arranged in endless variations to capture details of sound. Letters fairly cling to the sounds of words, showing the textures: "fill" versas "fills," "sa-cetic" versus "esthetic," "serendipity," "pterodacety!," "Mooselook-meguniti." Organs of speech could hardly be more exact or delicate in their sounds than letters in their showing. At least for most languages.

The letters' precision int' just a topic for rhapsody. It opens not the most important fact about the alphabet, the key to understanding the background of our 26 letters and much of world cultural history besides—ramely, that letters can jump from a guage to language. Letters are so clever at showing speech that they need not be confined to any particular tongue but often can be fitted from one right to another.

Even if the two languages are totally unlike, letters often can make the transition. Because their core selection of sounds (inherited from the alphabet's earliest stages) is close to being universal, letters usually can be adapted to a different tongue through only a few changes three or four letters resulted to me sounds, a letter or two invented, unneeded letters discarded. That is why various modern languages have different numbers of letters for the same general alphabet.

Letters have leapt from language to language throughout history. Originally that was how the alphabet spread across the ancient world, blossoming among people previously illiterate: the Jews, Aramaeans, Greeks, Etruscans, Romans, and others. Each group spoke a different language. Each acquired its alphabet by copying someone else's and then adapting the letters to the new tongue. When Julius Caesar as a Roman general entered Gaul in 59 B.C., he found the inhabitants writing their Celtic language with the Greek alphabet, learned during a prior century from Greek traders at the seaport now called Marseille.

Since the initial spread of literacy, alphabets of the world have kept jumping around, propelled by conquest, missionary religion, or cultural politics. In the early 1990s, three former provinces of the Soviet Union announced they would dump their Cyrillic alphabet (imposed by Stalin in 1940) and switch to the Roman. The newly independent countries of Azerbaijan, Turkmenistan, and Uzbekistan have not altered their spoken languages, which are Turkic tongues, related to Turkish. But the governments have moved to replace Cyrillic street signs, textbooks, tax forms, etc., with new ones printed in a modified, 29-letter Roman alphabet. Elementary schools now teach Roman letters. The massive, disruptive changeover-inspired by westward trade ambitions and hatred of the Soviet memory-was declared officially complete in Azerbaijan, at least, in 2001. The new alphabet is modeled on that of modern Turkey, which switched from Arabic to Roman letters in 1928, under the westernizing regime of Kemal Atatürk.

Prior to 1940, Azerbaijan, Turkmenistan, and Uzbekistan used the Arabic alphabet, until the early Soviets imposed the Roman one in the 1920s. Thus the three regions have seen all three major alphabets in the last 80 years: Arabic, Cyrillic, and (twice) Roman. Although the languages of the three countries are unrelated to Arabic, Russian, or Jatin, each alphabet has taken hold in turn.

Other examples abound. In around 1860, Romania switched from Cyrillic to Roman, turning westward from czarist Russia's sphere. Vietnam had Roman letters imposed by French colonialsm in 1910; the change displaced a traditional. Chinese-derived script. Today in Ho Chi Minh City, shop signs and newspapers are in Roman letters and Vietnamese language. Meanwhile, in neighboring Cambodia, a kindred language is written in an entirely different way, based on an ancient script of India.

We think of the Arabic alphabet as the written form of the Arabic tongue. Yet Arabic letters have belonged to other languages, too. Carried outward from Arabia by armies and seafarers after the mid-600s A.D., the Arabic alphabet now serves about nine major tongues linguistically unrelated to Arabic. Berber in Morocco, Nubian in Sudan, Farsi and Kurdish in Iran, Urdu and Malay in Malaysia. Malay has traditionally been written in either of two alphabets, Arabic or Roman, Roman predominates tough yet in the capital city, Kuala Lumpur, you can still buy a Malaylanguage newspaper printed in Arabic letters, as well as others in Roman ones.

Malay isn't the only switch-litter. The African commontongue Swahili may be written in Arabic letters or the usual Roman. The language known as Serbo-Croatian—shared, with dialectical difference, between Serbit and Croatia—in written in Cyrillic by Serbs, in Roman by Croats. (The split, a legacy of rival medieval missionary churches, has surely contributed to the calamitous distrust between those peoples.) Likewise, India's Hindi and Pakistan's Urdu are fundamentally the same tongue, only using Devanagari script in India, Arabic letters in Pakistan. And Yiddish, while not exactly German, is closely akin to it. Yet Viddish is written in Hebrew letters, and German in Roman ones.

The "spreadability" of an alphabet means that the future of our Roman letters looks very bright indeed. In Russia's Volga Valley, about 440 miles east of Moscow, the semiautonomous, Turkic-speaking republic of Tatarstan has announced its intent to follow Azerbaijan's example and go Roman. Strugging nations

elsewhere, particularly in Central and Southeast Asia, may be expected in coming decades to oli kiewise, ewitch to Roman letters for native tongues, as a bid to tie into global trade and communication and to better prepare their people to learn English. Tragically, much that is wenerable and spiritually sustaining will be lost. Yet that seems inevitable in the 31st century we are shaping. And it is sobering to reflect that our 36 letters wield such power.

To unlock our letters' mysteries, we begin with the ancient Phoenicians. The Phoenician alphabet of 1000 ns. would become the great-grandnother of our own. About 19 of our letters can be traced back directly—in their shapes, their alphabetical sequence, and, for most, their sounds—to Phoenician counterparts. Our is not the only descendant. As shown in the "Family Tree of the

Phoenicia, the Near East, and the Eastern Mediterranean, 1000 B.C.



World's Alphabets" (pages xiv-xv), the Phoenician alphabet has been the source for nearly every subsequent alphabet, past and present.

The Phoenicians were a dynamic Iron Age people, based in what is now Lebanon. Today they are remembered as the best seafarers of the ancient world. In the 700s B.C. they spanned the length of the Mediterranean with a seaborne trade network, exchanging luxury goods from the East for raw materials from the West: Babylonian textiles, Egyptian metalwork, and Phoenician carved ivory were traded for elephant tusks from North Africa and bars of silver and tin from Spain. Sustaining the network was a westward string of some 14 major colonies, plus lesser ones-Phoenician seaports on foreign soil, serving as ship stations and local trade depots. Today a handful of these foundations survive inhabited: The southern Spanish Atlantic seaport of Cadiz, for example, began its life as a Phoenician colony named Gaddir ("walled place"). But the most fateful Phoenician colony was Carthage (Kart Hadasht, "new city"), built soon after 800 B.C. on the Tunisian coast. Carthage would grow to a great power of the Mediterranean, eventually dwarfing old Phoenicia in wealth and might, before being challenged and destroyed (146 B.C.) by the Italian city of Rome.

The Phoemician homeland was not a unified nation but a grouping of independent port cities, linked by common language, religion, self-interest. Three cities were forenost: Byblos, Sidon, and the island-fortress of Tyre. All three are inhabited today, as Lebanese cities. Lebanon's capital, Beirut, was likewise once a Phoenician port.

The Phoenicians were Semites, akin in ethnic group and language to the ancient Jews. Phoenician speech would have sounded much like ancient Hebrew Israel—the Jewish kingdom of David and Solomon—was Phoenicia's southern neighbor and trade partner in the 900 s.C. Unlike the monotheistic Jews, however, the Phoenicians worshipped several golds, chiefly the pro-

tective Melkart ("king of the city," sometimes called by the title Baal, "lord") and his consort, the queenly, sexual Astarte.

Sometime before 1000 B.C., the Phoenicians began writing heiri language in a 22-letter alphabet. They did not invent this alphabet but inherited it from prior Semitic tradition. Created around 2000 B.C. by Semitic speakers, the skill of alphabetic writring had spead gradually through parts of the Near East, learned by one group of Semites from another. Some Semitic peoples may have known of it without using it; non-Semites surely knew nothing about it.

With the Phoenicians, the Semitic alphabet acquired an international platform. As part of a busting, utbun society, the alphabet was taught to Phoenician children, used for government and trade, and carried abroad by merchant fleets. Phoenician writing would have been eyed enviously by foreign trade partners with no writing of their own. Eventually some would copy the Phoenician letters for themselves.

The alphabet was just one of several technologies by which he Phoenicians prospered. They were masters of improved techniques in shipbuilding and navigation (they are credited with the discovery and use of Polaris, the North Szar), carpentry, metalworking, and the earliest glass working. Their alphabet surely abetted their technical skills, while their success and travel served to publicize their albabets, whether they wished so or not.

Although the Phoemicians came along nearly 1,000 years after the alphabet's invention, their version of the alphabet is the earliest that fully rewards modern study. Scholars can analyze and understand the Phoemician letters, thanks to sufficient archaeological remains. The prior millennium has left us with less satisfactory material.

About 500 inscriptions survive from Phoenicia after 1000 B.C., with over another 6,000 from Carthage and its network after

#### EXPERTS IN FOREIGN TRADE



robotin imps newly outcome at a poir of 153ps, unig-nodes transition merchanic made gestures of obvisions to Egyptian authorities (not shown) while white-kiled Egyptian harbor pilots come abore. The Phoenician cargo included jars, tight cert, probably of your, as drivel forings to Egypt. Pin includen painting digitis an Egyptian worth meant from the later second millennium 8.C., found near modern Leave and one shall printed by moistly instead by missing.

The Phoenicians' trade network brought them into contact with aution of the Mediterrana and Near East Egypt. Asystia, the begish kingdom, the Arameans of Damascus, the Eruscans of western Italy, the kingdom of Tarcessus in southern Spain, and a marginal but armbitious northeast Mediterranean people, the Gereks. Trade prompted the dissemination of Phoenicia's alphaber. By about 900 B.c. the Jews, Aramascus, and other Near Eastern people had copied Phoenician letters for their own use; by about 800 B.c. the Greeks had done likewise. The Greek adaptation, specifically, was a crucial step toward the formation of our modern letters.

400 B.C. Most are brief: prayers, gravestone epitaphs, statements of ownership on artifacts, and the like. Usually the writing is chiseled or scratched into durable material like stone or certainic—the material being the reason for the writing's survival. Phoenician letters, conveying the Phoenician language, can gen-

The Phoenicians are described with mixed admiration and distrust in extant Greek and Hebrew literature, such as Homer's epic poom the Odjury and the biblical books of Kings and Ezekiel. Viruses like craftsmanship and interpled senfaring are counterbalanced with accusations of greed, dishonesty, decadence, and a readinest so kidanj poriegn women for the slave trade. Some of this may have been libel, prompted by jealous:

Our word "Phoenician" comes from ancient Greek. Phinnishe, "telle people," was what the Greeks called them, probably in reference to their copper skin color. Alternatively, the name may refer to the private certified, yet, anging in but from red to data purple, which was Phoeniciás prime luxury product. Extracted from sea molluski' dead bodies though a secre process, this uniquely beautiful and expensive purple, exported in woven clothing and furnishings, became an international assum symbol in anxiquity, in suc confined to the very rich, chiefly roy-alty. Down through the early 20th century A.D., the color purple was associated in Europe with kings and emperors.

What the Phoenicians called themselves we do not know. One possibility is something like Kansani, "Cananities," for the Phoenicians were doscendants of people who in the second millennium ac. had inhabited the biliked land of Canani (oday covered by Irael, the Palestinian Authority, Lebanon, western Jordan, and coastad Syria), Acchaeology reveals that some of these Cananies forebraw were using the Semitic alphabet by about \$500 a.c., in a version similar to what the Phoenicians would use.

erally be read with confidence by experts due to the similarity to Hebrew. Among the inscriptions are schoolroom-type exercises, including valuable lists of the letters in alphabetical order.

Such survivals are but a tiny remnant of Phoenician writing that once existed. From Egyptian, Greek, and Roman authors we hear of Phoenician or Carthaginian historical annals, busines archives, and volumes of religious foor. Those writings have vanished, as they were normally written in ink on perishable materal like animal hide or papyrus (an ancient reed paper), quick to decay. Furthermore, Phoenician literature was not copied and preserved by the Greco-Roman culture that eventually dominated the Medicranean; in fact, just the opposite: A whole library of Phoenician-language scrolls went up in flames when the Romans sacked Carthage, for example.

Phoenician letters, true to the alphabetic principle, symboliized timy sounds of speech: "di," "hi," "mi," "p." etc. The letters were all consonants; there were no vowel letters. Although vowel sounds existed in Phoenician speech, it was not felt necessary to show them in writing. The absence of vowel letters was a feature inherited from the traditional Semitic alphabet. Words were written in abbreviated form, consonant letters only. (Eventually, biblical Hebrew would use the same technique.)

To a modern English speaker, the sstm wth n vwl lttrs pribbly snds crzy. Vowel letters are essential to identify written English words, especially where a wowel begins the word or  $\dot{b}$  the word. Try writing "I am an ass" without vowels. More generally, En

This chart demonstrates how each Phoenician letter's name opened with a consonant sound appropriate so the letter. The names alexh and ayin began with consonants that are unknown to English speech and cannot be clearly shown in our spelling. Thus those two name spellings are misleading.

Albisoph madem volution are onfident regarding the 22 ancient name thorsalved (see but, page 23. 'How We Know the Potentian Letter! Names'), the English resultation remains mecentain for a few, such as tex and taske. The bind letter! name, ignor, such as he resultated as "camel"—the cross happe being interpreted as the animal? home—but taday is brought to have means the bootnerage like "triving inside" used for huntring usuall game. Promonication tips: The first small of glimel is the hard "g" of "girl." The letter name he mound like 'fam: "I man leaned is labor mound like "fam: "I man leaned is labor."

Letter Shape	Sound	Name	Name's Menning	Descendant(s) in Our Alphabet
K	breathing stop	aleph	ox	A
4	.P.	bayt	house	В
1	70	gimel	throwing stick	C
_	-d-	dalet	door	D
9,	-k-	he	shout of surprise	E
Y	~·	wow	prá	E.U. and Y
I	-2"	zayin	ax	G and Z
日	gutturel "lih"	libet	fence	H
9	emphatic "t"	tet	wheel	_
2	-y"	god	arm and hand	I
$\Psi$	4.	kaph	palm of hand	K
4	T	lamed	ox goad	L
9	m"	mont	water	M
5		nun	fish	N
Ŧ	*	somek	pillar	_
0	guttural sound	auin	eye	0
>	"p"	De	mouth	P
h.	ts	trade	popyrus plants	_
φ	-d"	goph	monkey	Q
9	·÷	resh	head	R
w	"sh"	shin	tooth	S
+	70	four	mark	T

THE PHOENICIAN ALPHABET OF 1000 B.C.

glish and other Indo-European tongues assign strong meanings to vowel sounds, for instance in distinguishing "pack," "peck," "peek," "pick," "pike," "pock," and so on.

In Phoenician and other old Semitic languages, not so, Phoenician vocabulary was more uniformly structured. Compounds aside, Phoenician works tended to have two- or three-consonant roots, with one consonant almost always first and another often last. For example, the Phoenicians wore the word "king," as letters m-l-k, representing a word sounding something like melik. Because the vowel sounds were framed between end consonants, the virtue form m-l-k was pretry clear.

Moreover, although a few other Phoenician words could be written as m-l-k, they all necessarily related to kingship or royalty, for that was the meaning of that root. In writing, context would help to clarify words' meanings.

For ease of learning, the Phoenician alphabet had several built-in memory devices, inherited from Semitic tradition. The letters in abstract were given a strict sequence, so students would not forget any-a feature we retain when we teach preschoolers the "Alphabet Song." The letters had names, as ours do. But their names made more sense, as being names of familiar objects; ox. house, throwing stick, hand, water. Every letter's shape formed a stylized sketch of the object named: The "ox" was shaped like two horns: "throwing stick" looked like a boomerang: "water" was a wavy line. And the cleverest touch: Each letter name began with a different sound, the sound appropriate to the letter. The "house" letter, bayt, denoted the sound "b," (Indeed, it is ancestor of our B.) The "hand" letter, kaph, denoted the "k" sound. (Ditto, it is the K ancestor.) The Phoenician alphabet thus resembled a modern, phonetic, radio-communication alphabet, where words replace the English letter names according to the same principle of the first sound: Alpha, Brayo, Charlie, Delta

The system meant that once a Phoenician child had memorized a list of 22 common nouns, he or she had a handle on each letter's sound (if being the same as the name's opening sound) and on each letter's shape (it being typically a rough sketch of the object named). This is the same sign-for-sound code that we learn, perhaps more liboriously, in kindergarten and first grade.

As mentioned, the Phoenician alphabet contained the seeds of about 19 of our modern Roman letters. Keeping in mind that Phoenician letters were also pictures and tended to project left-ward for right-to-left writing (while ours go of to other ways), our gilmpse some of our letters taking form in the Phoenician list. The sequence of Phoenician letter sounds clearly anticipates our own: "\(^n\), "\(^n\)," \(^n\), "\(^n\)," \(^n\)," \

Some Phoenician letters sounded far different from ours, as you might expect. The letter alph was a breathing stop and gin a harsh throat sound; most English speakers would be stumped to pronounce either. And Phoenician speech obviously used a lot of sibilance, since its alphabet needed four kinds of S. We retain two today our S and Z.

But how did it begin? If Phoenician letters belong to a tradition by then 1,000 years old, what preceded? Who invented the alphabet? The answers take us south from Phoenicia, to Egypt of the pharaoks.

During the 1970s, a world-popular TV series was the BBC's Upstairs, Downstairs, about the household of a titled family in

Letter	Main	
Shape	Sound	Name
ĸ	[silent]	alef
3	ъ-	bayt
à	"e"	gimel
7	"d"	dalet
n	"h"	he
1	*v*	vav
1	"z"	zayin
п	guttural "kh"	khet
u	emphatic "t"	tet
3	"y"	yod
5	"h"	kaf
5	-1-	lamed
20	*m"	mem
3	"n"	nun
Þ	"s"	samele
ν	[silent]	ayin
Ð	°p*	pe
y	"ts"	tsade
P	"q"	gof
٦	* <sub>F</sub> *	resh
v	"sh"	shin
n	***	fav

#### THE HEBREW ALPHABET:

#### ELDEST CHILD OF THE PHOENICIAN

The 22 Hebrew letters were born by being copied from the 22 Phoenician ones, sometime perhaps around 950 R.C. Today the debt to Phoenicia is obvious in the modern Hebrew letters' sounds and sequence, although not their shapes. (As to their names, see box "How We Know the Phoenician Letters' Names," page 23.)

The copying into Hebrew marked the first of several times in history that the Phoenician sliphates would be bornoused by another people. Because the ancient Hebrew and Phoenician languages were so to similar, Hebrew speakers would have found the Phoenician latera perfectly usable for their language. The one wrinkle, according to modern analytis: Hebrew could have used three more letters, to show certain sounds caisting in Hebrew but not Phoenician. So three Hebrew letters reveals the country of the property of the property of the probability did doubt durn as two sounds each.

Hebrew evidently had no prior writing system; with the adoption of the Phoenician alphabet, there began the permanent recording of Judaism's faith and historical sagas, reaching back into the second millennium a.c. Whatever the antiquity of Jewish tradition, the oldest words of the Bible (written in Hebrew) date only from the 900s a.C.

Of the modern Hebrew letters, only blar, apf, reah, and sidn show any resemblance in shape to their Phoenician models. Yet originally the two alphabets looked identical: Hebrew's alphabet sau the Phoenician, as revealed by extant inscriptions like the famous Gezer Calendar (page 22). Lates, starting in the 2008 B.C., Hebrew letter shapes would undergo major changes.

The Hebrew and Arabic practice of writing from right to left derives from the Phoenicians.



Phoenician Isters, Hohren language? The Gener Calendar is a limentone inversion from the oile of the 1900 AC, chought no be the centine survival of survines Hebren. Discovered in a.D. 1908 at the site of the success city of Gener in what is now southern Israel, the "calendar" briefly lists the months of the year by farming datis. It may be a students' correcte Ac to be bostom left correct, the write andel or extras letters that might yeel its name, apparently shifted.

The laters of the interption are Promision. The language could be Promision, no, but opport before it is bettere (the two were way intuited, partly because of the antoniously: The same tables even to have come from the time and plant of the Joseth bringhom rated by Solemon III is it belows to be incurpting promisers the neubron Height complete, which had been copied overonly from the Promision alphabe and will booked exactly like it. The cut radio. The womath of Januari The wasmited of severa. The womath of severair, The womath of severair The womath of severair. The womath of severair The

# HOW WE KNOW THE PHOENICIAN LETTERS' NAMES

The 22 Phoenician letter names cited in this book are universally accepted by scholars, given variations in spelling. However, no source from ancient Phoenicia tells us the names. Instead, we rely on reasonable extrapolation.

The 22 Phoenician letter names that we use today are actually the 22 ancient Hebrew names, slightly adjusted. An important written source tells us the ancient Hebrew names, not the Phoenician. The Hebrew versions are assumed to reflect closely the Phoenician ones, from which they came. There would have been no problem of translation, for example: Names like alighant new would have meant "ox" and "head" in both Hebrew and Phoenician.

The Hebrew names are preserved in one of the most important documents from antiquity: the Greek translation of the Hebrew Bible, originating in the Greek-Egyptin city of Alexandrai in the zone A. Rosown as the Septuagint (from the Latin word for 'seventy,' on the tradition that 70 scholars produced it), this Greek Bible would prove essential to Judainn's survival and the spread of Christianity in the Greeo-Roman world. In its book of Lumentations, the Septuagint happens to use Hebrew Iterer names to order the text's verses. The 22 names appear repeatedly written out in Greek Iteres.

Edwardian London. The characters fell into two groups: the wellheeled family and associates, and the socially more humble servants, "belowstairs." Each group had its dramas, sometimes intersecting. The storyline, appealing to democratic tastes, fawored the servants, who included the star character.

The alphabet was an invention "belowstairs," in a society far more harshly class-bound than even Edwardian London. Today we believe—from dramatic archaeological evidence, analyzed in 1999 that the alphabet was invented in Egypt sometime around 2000 BC. (See "The Cradle of the Alphabet," page 29.) The inventors were almost certainly not Egyptians but foreign workers, probably soldiers, employed by Egypt. They spoke a Semitic language, a Bronze Age ancestor of Phoenician, Hebrew, and Aramaic; it was a tongue quite distinct from Egyptian although linguistically related to it.

Exant Egyptian documents from the Middle Kingdom era (roughly 2000 to 1600 B.C.) often mention foreign labor in Egyptmercenary soldiers, miners, storecutters, and the like, some of them enalwed war prisoners. Many would have been Semitic speakers from points east: Sinal, Canaan, the Arabian perimsula. The Egyptians knew them by the oft-contemptuous name Annu (Asiatics). Annu, in Egyptian eyes, were typically desert Bedouin.

As well as being socially marginal, Semites in Egypt were mostly illiterate. Certain individuals of authority—a mining formman, a military captain—would have mastered simplified version of Egyptian writing, and a tiny few perhaps knew some Mesopotamian cuneiform, yet as a people they had no writing. They could, however, study their Egyptian masters' ways.

The official Egyptian writing system was hieroglyphics (see box, pages 27–28. "Egyptian betture Writing.") Hieroglyphic pictures communicated Egyptian words by representing either (t) the idea behind a word of to) the consonant sounds of the word or (j) offen both, using multiple pictures. Almost any picture could be employed in two different ways, although not simultanoully: an image of a tree branch might mean "wood" or it might mean the sounds k-h-t (the consonants of the Egyptian word for wood, In its phonetic meaning, k-h-t, the branch picture might help represent entirely different Egyptian words, like "afer" (which was k-h-t, the same consonants) or "stonog" (n-k-h-t).

Phonetically, most hieroglyphic pictures denoted three consonant sounds each. One group of a few dozen denoted two consonants each. And—most significantly for our present study—there were some 25 pictures denoting one consonant sound each; together, these constituted 25 essential consonants of Egyptian speech. Here was an entire Egyptian "alphabet," embedded in the massive hieroglyphic system.

Evidently someone among the Semites, a lone genius or a group, became inspired by this alphabetic principle in Egyptian writing. A purely alphabetic system was envisioned, to be adjusted to Semitic speech. Like the Egyptian counterpart, the Semitic alphabet would show only consonants: To include vowels would have made the letters too many for easy learning.

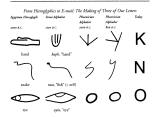
Perhaps over a year, perhaps over a generation, the inventors arrived at a list of essential Semitic consonant sounds that would need to be symbolized for writing possibly around 27 (to guess from later evidence). The list would have differed somewhat from the 25 Egyptian consonants. To their 27 sounds, the inventors married 27 letters, which were pictures.

The choice of pictures was natural, because that's how the Egyptians wrote and because only a picture would possess a name, which was deemed necessary to prompt the reader as to the letter's sound. How could you remember to say the sound "z" unless you were looking at a picture of a zebra? So the Bronze Age reasoning ran.

A letter would be an image permanently agreed on, simple and distinctive in shape, presenting a fimiliar object whose Semitic name began with the appropriate sound. For visual models, the inventors could look to the beautiful hieroglyphics abounding in public places of Egoptian cities and to the simpler symbols of Egoptian rock-writing practiced in open country. From these they chose pictures to copy as their letters. The new picture letters were known by their Semitic names, with the Egoptian names and values discarded.

For example: To symbolize the sound "r," the Semites borrowed an Egyptian hieroglyph of a man's head in profile. That symbol in Egyptian could mean the word "head"—or "chief" or "promote" or "fetter." in combination with other signs. The two

### OH, YOU DON'T KNOW THE SHAPE I'VE BEEN



The enablesing of these of our laters shape is reason in this is supplying of their enables of from The first enables and the Egyptian sourcing pattern from which the laters' shape was the control of the control of

Egyptian spoken words for "head" were something like tip and djedje. But the inventors didn't care about all that. They saw the hieroglyph of the head and called it resh, the Semitic word. Because the name resh began with the sound "r," and because the pictorial image was clear and distinctive, they selected that image

#### EGYPTIAN PICTURE WRITING



Hieroglyphs painted on a tomb wall at Thebes (modern Lucor), in central Egypt, about 1400 8.C. The image resembling a traffic light is meant to be a scribe's wooden paleste with two inset paint bowls, attached by a cord to a pouch and brushes.

Withing in Egypt began around 3000 no. The official system was hieraphyshics ("sacred cavings"), reverted as the gift of the scribe god Toleh, Pictures of familiar objects—owl, baster, hand, ore—were used individually or in combination to comey words in a sentence. Any picture could be meployed either a foil 3 pictograph of loogogam or (a) a photocist symbol. A sailhout image might mean "boat" or "to sail"—or it might simply combute certain consonant sounds to help spell a different word. In hieraphysphics, an owl and a reed (segher meant "there," nor "an owl and a reed." Read phonetically, the two pictures approximated the sound of the Egyptian word for 'there."

Hieroglyphics were works of art, meant for formal presentation. They were always painted, often onto stone-carved reliefs or insets. Normally they ran from right to left. On walls of buildings and monuments, they carried public announcements and expressions of relieious faith. About 700 hieroglyphic symbols were being used in 2000 ns. In addition to knowing the symbols, there was the exacting job of painting them. Because the system took years to master and constant practice to retain, its use was confined to a literary elite of priests and scribes. Even other high-born types, such as landowners, might not know how to write hieroglyphics.

Less rigorous was the second Egoptian writing system, hieraic. (The name, which is miletading, means 'priestly' but other social classes used it.) Hieraic was a simplified hieroglyphic script, designed for ink and brush on papyrus or textile. Pictures were converted to styltized outlines or strokes, with a far reduced voorbulary. Hieraics writing in its most basic form was accessible to most of the Egoptian upper and mildle classes: Indoorense, certain mechans, and military officers.

for the sound. Thus they invented letter R as the sketch of a head in profile. Future generations of Semitic children would look at the 18th picture and think of sound "t." Today, just erase the second leg of our capital R and you'll see not a P really, but the primordial head and neck in profile.

The earliest alphabetic writing was thus a bunch of pictures. The oldest surviving Semitic inscriptions, from around 1800 and 1700 a Rc., show pictures—a head, a section of fence, a human stick figure—arrayed in cumbersome rows or columns like crude hieroglyphics, a whole row spelling out perhaps five words. Yet here were our letter direct ancestors, as this book will trace.

The alphabet was (and is) a gloriously simple system, invented for the masses. Abruptly, it gave the power to write and read to "little people," foreign laborers in mighty Egypt. Any Semitic

text continues on page 41

#### THE CRADLE OF THE ALPHABET

# How the Search for the World's First Alphabet Has Led to Egypt

Modern experts now believe the alphabet was invented sometime around 2000 R.c. by Semites who dwelled as foreigners in pharach's Egypt; the inventors were inspired by Egyptian writing systems. The Egyptian connection has been established through two specacular archaeological discoveries, one at the beginning and one at the end of the 20th century.

Searing in the mid-1700 a.D., certain European scholars theorined that Egyptian histophylinks were the source or imparison for the ancient Hebrow kenes. The deciphement of hieroglyphics in 823 did not obviously support the theory, for the two writing systems were shown to work on different principles. The question termained alive throughout the 19th century, amid growing awareness of the place in history of the Phoenican alphaber. The emergence of Phoenican and Hebrow witting "next door" to ancient Egypt might not be coincidence, it was argued. But fair-ther understanding had to wait for methods of modern archaeology.

The first breakthrough came in 1909 with the discovery and later assessment of about 500 point-pritons in a distinctive script that modern cycle had never seen. It was pre-Phoenician alphabetic writing, although non leanew it as first. The incriptions were found at a desert locale in central-west Staia called Serabit el-Khadeen, now within modern Egypt. They had been carved into local anadistone and preserved by the site's solitude and absence of destructive vegetation. Their discoverer, British archaeologies William Filinders Petric, recognized they were novel and important but had no idea how to read them, and decades there would conclude, womely, that they were not alphabetic.

The writing was pictures carved sketches, arranged in rough rows or columns. The pictures ran continuously (no systematic breaks), and their direction for reading—leftward or rightward, up or down—was unclear. There were about 27 recurring shapes: a fish, a snake, a human stick figure with arms out, a wavy line, the head of an ox or cox, and

ow, and

others. Certain figures resembled Egyptian hieroglyphic pictures, but the system was not hieroglyphic.

Serabit el-Khadem was foremost an ancient Egyptian site, the senen of intermitten trupquier imning between about 2200 and 1200 n.c. Here agents of the pharaoh, with armies of underlings, had torn out the semiprecious stone from under the desert. The miners probably included non-Egyptians such as Next Easterness, many of whom would have spoken Semitic dislects. As can be guessed, the writing would turn out be theirs.

The 30 inscriptions had been left amid a mass of more convenional Egyptian relics, similarly carved from local sandstone. These included figurines, panels of hieroplyphics, and remnants of a temple of the Egyptian goddess Hathor, patron deity of the miners. It was Egyptian treasures that had drawn Petrie to the site; he did not come looking for the alphabet.

The writing stood in some relationship to the surrounding Egyptian material. Several of the mysterious inscriptions were scratched tono stone-carved Egyptian figurines, including a small sphinx. Schol ari attempts to date the writing have since relied on figurouted duting of the sphinx through artistic analysis. British Egyptologist Alan Garaitere believed it on have been carved around 1800 no. La leave a 1900 no. Co. But roday some believe 1750 n.C. looks like a good guess for the Sina sphinx and inaccipitions.

The symbols remained undeciphered for a decade after Petric published report. Them, in 1916, Gardiner published a billiant article, "The Egyptian Origin of the Semitic Alphaber," which set the stage for all subrequent study. Gardiner argued that the Sinai writing was alphabetic, that the pictures were individual terest, that each of them had been copied from an identifiable Egyptian biteroglyphic picture (with the Egyptian valued disregateded), and that when sounded out correctly, the picture letters would yield words of ancient Semitic. As proof, Gardiner offered his decipherement of a single word. The inscriptions contained about a dozen examples of four symbol together—"box," "eyr." "cane, "trous, we might all them—upparently an important word or notion. The four appeared, amid others, on the sphinx figurine. By extreme good luck, the sphinx also carried a hirrophybric message, scaratched into one shoulder, easily translated." "Belowed of Hathot, lady of the turquoise." What if the two texts, hierophybric and myster script, were the same?

From this assumption, Gardiner identified "box," "eye," "cane," "cox» is four letters representing the Semitie word faater. Tady? The expectful term haafar was the feminine form of haaf, "lord," and could be the title or name of a goddess in various Semitic cultures. The sphine evidently was an offering, deficiated in two virtings," belowed of Hather' would after to the worshipper who had donated the figurine to the goddess's temple. The gift was to thank here for help and protection in the mines.

4007

Above, the word baalat, "lady," as it appears in one of several Sensbit el-Khadem inscriptions. Apparently meant to be read from left to right, the letters are bayt, ayin, lamed, taw—that is, B, throat sound, L, T. As usual for the early alpha-

ber, the letters show only the word? commons would. The gravered spin has no English-yelling equivalence and is normally left out in transitions, atthough imageins might show in with the yields and gell the above word as ballas. The state of the show word as ballas. The same flows "e.g.," "or good." "mark." The same flows from the Stabilist. The same flows for the stabilists with the stabilists and gell the above word as the stabilists when the stabilists are sufficient to the stabilists and the stabilists are sufficient to the stabilists and sufficient to the stabilists and sufficient to the stabilists and the stabilists are right. There she word BIT runs downward, as the between right.



## THE CRADLE OF THE ALPHABET -continued

The Semites who wrote the Senbit inscriptions were presumably part of the Egyptian mining operations labores, soldiers, concubines, or similar types. They may have been foremen or others of authority, generally skilled and intelligent. Nevertheless, that such people could be literates, in an era before mass education, testifies to the accessibility of alphabetic writing.

Could the Semitic alphabet have been immend at the Sinai mining base! That is possible, but experts generally view the 30 inscriptions themselves as being "second generation": The 27 signs, confidently used, seem developed. The Sinai inscriptions (whether dated at 1750 or 1500 n.c.) were probably fruit of a Semitic tradition by then a few centuries old.

Since Gardiner's breakthrough, other scholars have announced decipherments of Stani inscriptions, ye only Gardiner's badar ternains certain. Although we can interpere nearly every individual picture letter. the messages clude us, due to the absence of word breaks and of a fixed writing direction: The Semitic high-to-left writing norm would not take hold until a future century; the earliest alphabet writings could be flowing in any direction, including up or down.

Archaeology of the mid-sorth century seemed to lead away from Egypt for the alphabet's origin, roward the Levant—the eastern Mediterranean coast and interior. During the second millennium n.c., this had been the biblical land of Canan. Cananaire were Seminic speakers whose culture was doomed to wither under invasion by Hebow eribsemen, absolute Phillistines, and others during the violent new between the contract of the Contr

In the Levant, archaeologists found two batches of pre-Phoencician alphabetic writing. The unearthing in 1929 of the grand Canaanite city of Ugarit, on the coast of modern Syria, brought to light 1,000 inscriptions in an odd version of the alphabet made up of 30 cuneiform shapes. Dated between about 150 and 1200 a. 6c., the relice suggested that Mesopotamian influence on the Levant, earlier on, might have helped prompt the alphabet's invention.

The second batch of discoveries was to the south, at sites now within Issaid and Leahounes some ay short or boxdam inscriptions in familiar letters, their shapes recalling both the Sinai and Phoenician writing. The letters had been insied or inteed onto household objects: a diagoge, atmosheads, pottery (found as fragments). The dagep robotally dates from 1650 B.C. or carlier, other items date variously from the 2000 to about 1000 a.C. Ore incised powhed may full whitin the range of 1750 to 1450 B.C. Another sheaf, from around 1200 B.C., carrier a list of 22 letters, the same 2 that would later become the Phoenician alphabet.

Only some differences in letter shapes distinguish these from the Phoenician serious none.

The older relics all were found to the south, in southern Israel. This may indicate that the technology of alphabet-writing spread northward up the coast during those centuries. The latest-dated items, arrowheads from Lebanon, in the north, merge into the start of the Phoenician alphabet, both in time and place.

The findings proved the existence of a Canaanite alphabet, in use at some places probably by 1700 B.C., which preceded and became the Phoenician alphabet. The Canaanite version was part of the larger Semitic tradition.

Such facts seemed by the 1950s AD. to point to the very birth of the alphabet. Of the two earliest groups of Semitic alphabetic remnants, from Canasan and from Sinai, the Canasanite material seemed to many scholars to have begun earlier. Since Canasan could claim the earliest errant letters, and since the early alphabet culminated with Canasanite descendants, the Phoenicians, why not view Canasan sa the heart of the

tradition and the likely place of origin?

For the rest of the 20th century, at least through the year 1999, books and articles on the early alphabet took their cue from the Canaanite evidence. Your local library has a whole shelf of books con-

oks con-

taining the theory that the alphabet was invented in the Levant, around 1700 n.C. Yes, it was inspired partly by Egyptian hierpophics (the theory allows), but the inventors were looking at imported Egyptian serolls and arrowls. The inventors belonged to a sophisticated Canamie society at a consoxad of trade, limite Egypt by sea and to Mesopotamia by caravan routes east. Impressed with the writing systems of both great cultures, these people called what they needed.

That reconstruction now goes into the trash can, due to a remarkable recent archaeological find in Egypt.

Like Petric at Sinai, John Coleman Darmell wan't looking for the applanet: he was olossing for Egoptian relics. In the early 1990s, the adventurous young Egyptologist of Yale University foodsy his title there is assistant professor) was absorbed in a field survey of ancient Egypt's road system, which all linked the Nile cities by Jand and given access to the eastern desert and the Red Sea. The roads had carried Egyptian armies, messengers, caravaners, and other land travelers. To trace the old roads, Darmell and his wife, Deborah, also an Egyptologist, would drive and hike through parts of central and southern Egypts, sometimes camping in the desert, mainly during winter months, when the sun is less Seccious dictioush pilot temperatures can plunge into the teens Fahrenheit). Much of their work involved recording thousands of Egyptian inscriptions at hundreds of archaeological sixes.

By late 1992, the pair had made an important discovery. In central Egopt, about yo miles northwest of Luxor (ancient Thebes), aniel desert hills seemingly in the middle of nowhere, the Durnells had found a perfectly preserved stretch of ancient road. Part of a desert shortcut connecting the royal city of Thebes with Abytos to the north, the road lay in a valley alongoide cliffs of cream-colored limestone. The valley, largely untouched since amiquity, was littered with ancient remnanta—met in a little, including camel droppings, pottery fragments, and bits of

rope. Along the base of the cliffs ran hundreds of Egyptian inscriptions, carved into the stone by centuries of travelers along the road.

Here was an open-air archaeological treasure ground, saved, by its remoteners, from the antiquities thirew who are the courge of Egyptian archaeology. (On the other hand, the Darnells realized they were not the first modern scholars to see the valley. British archaeologists in 1956 had passed rhrough, taken some photographs and nones, and given the forlorn locale a name, based on a nearby place-name. Wadi cl-Hol, the Valley of Terus.

On his first and subsequent visits, John Darnell studied the messages along the cliffs, where "backboard-like hence of rock" (his please) had invited ancient passensby to carve. The writing looked familiar enough at first. Darnell recognized much of it as a nock-writing style of the anient Egoptian illimary. It was an inhibands of hieroglyphic and hieraric symbols, chosen for easy carving, which had reached one typical style during the Middle Kinedom, around 2000 to 1600 B.C.

During much of this era Egypt was a beleaguered state, pressed by invaden from the north and south. Around Tebest, the countern capital, authorities strow to keep roads clear of brigands and desert raiders, for the sake of roady an energogers capitally. The roads saw frequents, cannel-borne, military parrols (amply documented by archaeology). With long stretches of desert and countryside on their runus, senior Egyptian partol officers had developed a tradition of carving commemorative measures into rocks.

Rock-writing was solver business. Our word "graffini," with overmone of naughtines, does not do it justice; it was more like a gravestone epitaph for someone still alive. The writer gave his name and tile and ended usually with reference to a deips, a pareyer for aid on the desert crossing. The inscription was thought of as permanent and spiritually potent. The writer's name would be zero and spoken by future generations of passersby, a condition good for the soul in the shortest.

continued

The myriad carvings at Wadi el-Hol seemed to Darnell to belong comfortably to this road-warrior tradition. From specifics in the messages' content and writing shapes, and from analysis of material remains around the valley, Darnell and others would eventually choose an approximate date of 1800 s.C. for peak activity along the road.

It was on his third viit, in 1994, that Darnell noticed two strange incirptions. They had been carved into the limestone at shoulder level, about 20 feet apart: two short, crooked rows of symbols. Surrounding them were conventional Egyptian instriptions; all seemed to belong to-gentee. Sup) Darnell, "I saw the method of cutting, the placement on the rock, and I immediately associated them with the Middle Kingdom and Egyptian military rock-writing." Except that the signs themselves were not readable to Darnell. "Some of them seemed to derive from Egyptian signs, but they clearly were being used in a way that was not any Egyptian religion."

The two insciptions contained about 16 and 12 signs, including dupplicates. Fifteen different signs seemed to be used. Some obviously were pictures. Darmell could discern an on head, a human sixé figure with raisted arms, wavy vertical lines, a symmetrical cross. What message they carried, he coulded tignes. He could, however, guess what kind of writing they were. 'At a glance, they looked similar to the Sinai inscriptions. So I was certain these, too, would turn out to be alphabetic.

Verification was slow and methodical. By now Egoptian authorities had been informed of Waid el-Hol, and word was spreading. Amid a new official presence, involving permissions and paperwork—and oc-casional looting raids that saw some of the Egoptian carvings torn wholly from the rock—experts in ancient writing were brought to the valler or shown showerputs of the row inscriptions.

The writing indeed proved to be alphabetic. The symbols are letters, closely related to those of Sinai and Canaan. The two inscriptions cannot be deciphered confidently, due to the absence of word breaks and our un-

familiarity with some of the letters. Nobody knows for sure if the writing runs from right to left or left to right. However, assuming the flow is right to left, like that of future Semitic writing, one inscription may begin with the word "chief" and the other one may end with the word "god."

By 1986, Darmell and others had reached a couple of dramatic conclusions. First, the two inscriptions are probably the oldest alphabetic varieties, and the proposed of the control of the control of the dendry. They were carved in about 1800 n.C., give or take a century. More important, the inscriptions can be viewed as signposes that point directly back to the alphabet's invention. On the basis of the Wald circled veloces, that invention is now assigned to around 2000 n.C. in Egypt—about three centuries carlier (and in a different country) than previously thought. "Finds in Egypt Date Alphabet in Entire Exa" announced the front-page New York Times headline of a November 1999 piece reporting on the work.

The evidence is in the letter shapes, Darnell explains. Study has confirmed that every letter of the two inscriptions is copied from some precsstring symbol in Egyptian rock-writing and/or hieroglyphics. That is where the inventors and early users of the alphabet found their letter shapes.

Certain Wadi el-Hol letter shapes suggest a particular moment in time when that copying occurred. We know enough about Egoptian rock-owiting to track the evolution of its symbols, and several Wazi el-Hol letters clearly refleet Egoptian symbol forms of the early Middle Kingdom, around 2000 ns. Use the Wadi el-Hol date of arring looks closer to 1800 ns. The implication: The Wadi el-Hol writing preserves letter shapes bequestable from the alphabet invention, around 2000 ns. C.

Most revealing are the M letters. The two inscriptions contain four specimens of a ways, vertical line. Without doubt, this is the ancestor of the wary-lined Phoenician M letter, named mem (water), and thus is the ancestor of our own M. The Wadi el-Hol M letter strongly resembles a precisiting, vertical, wary Egyptian rock-writing symbol—obviously the source. But the Egyptian symbol was normally



mocapuon i



inscription 1 (augmentea)

The world oldest alphabetical writing yet discovered, the two While eHd inscriptions are carved roughly into limetone about 20 feet apart, amid hundred of other carvings that are Egyptian nonalphabetic writing. In the phonograph of Pocciption 2, the large 'glout' figure is actually an anthi symbol belonging to a nearby Egyptian inteription.

The inscriptions' letters look like cartoon figures. Yet experts find here the earliest examples of our A. B. E. L. M. R. and other letters. To the suntained eye, the only letter that reembles its future self is T found twice in Inscription 2: It is the cross or lowerouse 1 shape, at third from the too and again farther down.

Each picture letter denoted a consonant sound. When sounded out correctly, the letters would produce words in ancient Semisti. Only two words have been desiphered, even tentatisely. Assuming the writing runs right to left (and that is uncertain), then



cription 2



quess at both incripitional content. The many deciphenable anxient Egyption role messages at Wall Egyption role messages at Wall el-Hol and other road sites follow a standard formula: The waiter identities himself by name and title and involves a patron deity. The two Wall el-Hol incripitions may simply be alphabetic versions of an army-regulation message, "name, rank, and panye; thank, and panye;



Inscription 2 (detail)

The name of God. As read from right to left, the primordial letters alceby and lamed spell of, god. "app parently part of a soldier's payer for softey in the devert. The ladd-like lamed is the letter I. The archeved aleeph is not an E but rather a breathing-stop like a tiny cough, which bogen the world Semisis promunication and which does not

show up in normal English spelling. We cannot identify the god, but polytheistic Semistic peoples of later centuries would worship a protective father called Melkart or Baal or

ometrime just E. Meanwhile, another Semitic branch, the Jeus, would evolve a faith in as single God. In Hebreu, the letters sleeph and larned libewise form the drivin rame, as contained in the biblical word Elibeim ("God") and in familiar names like Elizabeth and Michael. The Anshiv word Allah ("God") comes from the same linewisis: enactions written horizontally. The Egyptian vertical phase was brief, around 2000 B.C. So the vertical shape at Wadi el-Hol betrays the letter's approximate date of birth. Other letter shapes allow similar deductions.

Who were the inventors? Darnell believes they may have been in the Egyptian army: Semitic mercenaries or similar, whom the Egyptians would have called Amu (Asiatios). These people were diliterate originally. But the army that they joined happened to have a vigorous writing tradition, which inspired them, it seems, to think of a writing method for themselves.

Perhaps the inventors were junior officers among the Amu, individuals who had learned some standard Egoptian rock-writing and were able to work from there. Perhaps, Darnell theorizes, they got help from Egoptian army scribes, who sought to improve the foreigners' organization with the gift of literacy.

As to who might have carved the two Wadi el-Hol inscriptions, same answer as above. Not the inventors themselves, of course, but their great-great-grandnephews, serving in Egypt's camel corps. It was the army that did most of the writing along desert roads.

One last irem of information. Quite near to one of the alphabetic inscriptions on the limestone wall is an Egyptian message mentioning someone named Behi, titled as "expedition leader of the Amu." This can't be coincidence, Darnell maintains: The three inscriptions, alphabetic and Egyptian, weep probably carved at the same time! Fleeb was an Egyptian, leading a Semite troop on road patrol, then the 'Chile' of me alphabetic message could have been one of those Semites, a junior officer or tribal chieftain under Bebi's command. A similar person would have written the other alphabetic message. The two Semitics olders were using their 'native' writing form, different from Egyptian. Says Darnell, 'It certainly looks as though General Bebi wrote his name, and woo of Bebi's Semites worte this:"

speaker with the opportunity could learn 27 pictures and their names: that, and a few years' practice, brought literacy.

During the second millennium B.C., the new technology spread from Egypt along caravan routes northeast and southeast into the greater Semitic world, to Canaan and the Arabian peninsula. It proved as accessible to the poor as to the rich.

In Canaan and Araba, the original alphabet apparently evolved into two separate traditions: two different-looking alphabets, adjusted to local speech. In each, the letter shapes morphed away from cumbersome pictures to stylized images, easier to write. The number of Canaanite letters dropped to 22, easier to learn. The Canaanite alphabet passed to the emergent Phoenician culture at the start of the Iron Age (1200 A.C.). The Arabian beach today writes only in the traditional scrine of Ethiopia.

But the secret power of the alphabet—unknown to its inventors, surely—was that it did not need Semitic speech in order to work. That fact would emerge in centuries to come. With modest adjusments, the miraculous letters would be fitted to diverse tongues of Europe, India, and Southeast Asia, and carry literacy around the globe.

Who today reads hieroglyphics? The upstart notion of the Amu has triumphed. Their picture letters were destined for billions of people. Like the wheel or the telephone, the alphabet was an invention to change the world.



An alphabet of (female) personalities is imagined in D. L. May's carroon "The A-to-Z Line," from the British satrical magazine Punch (March 23, 1931). Although modern taste might wish from deper criteria than just clothing and hody types, this carroon still charms, with its 1950s elegance and class consciousness. Punch ceased publication in 2002.

And now for the 26 heroes of our story . . .





The knightly A proclaims "quality assurance," on a red, white, and thue emblem of the United States Department of Agriculture. Among other duties, the USDA inspects and grades food products meant for public consumption, using letter rankings A, B, and C for certain foods, such as poultry, eggs, and dairy. But the A of excellence is also the USDA's own symbol.

# A, FIRST AND BEST

ssociated with beginnings, fundamentals, and superiority, the letter A has traveled first class down through history. Most modern alphabets start with A or its near equivalent. It was letter number 1 for the ancient Greeks (800 n.C.) and, in an earlier form, for the Phoenicians (1000 n.C.). Almost certainly it came first in the earliest Near Eastern letter lists of 2000 n.C. Being the doorway to literacy, A has enjoyed the richest symbolic value of any letter.

The A can symbolize all other letters by itself. In advertising and other narrative imagery, an A shown chalked onto a school blackboard, or held in the gloved hand of Sesame Street's Big Bird, sends a clear message: "Kids are learning





A human from and a disquer's compass and rule dights to keep lang program of equipal A in more indeuting from the book Champ (Passer) (field fighters?) by usual artice Group Piers present in Bern in 1520, A true Romainsone man, Finy was a type designer, pastione, engagere, collapsigner, written encourier; toucher of Francis, bolder of Linia and Grork, boldered, and exceemabilly the efficial pristen in King Tunquis 1. He were to book to dominate the Papere and even properties of the filled pristen in King Tunquis 1. He were to book to dominate the Papere and even preparent on the feature and the event what he was an imported millipsighty of use of the section of the section

the alphabet." No other letter alone could clearly say this; an E or K or Z on the blackboard might blur the signal by seeming to suggest a particular word. "Why E?" the viewer might muse. "For "e-business," key to the future? This must be an old ad." But A timelessly represents the idea of 26 letters.

It also represents success at school. The use of A, B, C, D, and F to grade students' work is documented in the United States since the late 19th century. The system has survived experimental alternatives and remains nearly universal in American public schools and widespread in the British Commonwealth and West-

ern Europe. Excepting F for "failure," the letters are not initials but ratings by sequence.

Thus the meaning of A as "first rate" is ingrained in us as children, to recur in our adult lives. Like the fair-haired son of a wealthy family, A emanates quality.

For example, in the rating of bonds, stocks, and other credit obligations, both Sandard & Poor's and Moody's investor's services use a top grade of AAA, for items carrying very little risk. Investments rated AAA have the right to be called "gilt edged." Next come grades AA and A, then BBB, BB, and B (at Sandard & Poor's) or Bas, Ba, and B (at Moody's), and so on to C and, for some categories. D.

Similarly, the United States Department of Agriculture (USDA), which screens food products meant for public consumption, employs letter grades for many. Chicken carcases are judged as quality A. B. C. or ungraded. To get an A. the carcase must be "normal" in shape, "well feshed," and "few or protruding feathers and hairs," according to a USDAD publication. By the time we reach C. the chicken might look "abnormal" or "misshapen," be "poorly fleshed," and have a "scattering of protruding feathers and hairs." (As if getting slaughtered weren't insult enough.) The point of grading is to provide criteria: Most supermarket suscellers deal only with "A" chickens.

The letter A can signal "top service" in commerce and name branding. Company names like AAA Heating & Cooling have dadawhatage of coming first in the yellow page listings, as well as being easily remembered and suggesting "no risk" for the customer. The American Automobile Association (AAA) sells sixelf on a promise faithfiltre as does, in its own was Choobile's Annormnous (AA).

Our expression "A-1," meaning "first rate," goes back to British nautical language of the early 1800s. The maritime insurer Lloyd's of London, in registering thins, would use notations A or B to rate the condition of ships' hulls and notations 1 or 2 to rate ship's equipment. Only the most shipshape vessel could advertise as being "A-1 at Lloyd's."

Neat and self-explanatory, "A-1" soon spread to popular use on both sides of the Adamic. In print, it shows up with no manical reference in mid-10th-century journalism and in novels like Charles Dickens's The Pichuski Papers (1837). The "A-okay" of American speech would seem to be formed by analogy, yet it actually dates from much later, 1961. During the first manned, sub-orbital NASA spaceflight, a simple "okay" from stronaut Alan Shepard in radio communication was misheard and misreported as "A-okay" The Phrase caught on because it captured a niche:
The A raised it to the meaning of "excellent," where "okay" mish mean inst' "adecuate."

The "A-list," a term knored until recently in snob-appeal journalism and advertising, refers to any select group, the crème de la crème. An A-list tops a B-list and sometimes a C-list. The terminology entered mainstream media in the 1980s, inspired by the "Hollywood A-list."—an unofficial ranking of about 75 movie stars judged to be currently the most "bankable" (able to attract financing for a new film project). Another 100 or 100 names supply a B-list, with more names on lists C and D Based on recent box-office returns and film-industry opinion, the lists float around in several versions. The Hollywood Reporter newspaper publishes an annual "Star Power Survey," which avoids notations like A and B but is composed of five lists, totaling about 1,000 names. Industry people offern effect to these as the A+ A, B, C, and D lists.

Science, unlike Hollywood, mistrusts value judgments. Here the letter A may signify not "best" but "first." Between 1913 and 1916, research chemists mainly at the University of Wisconsin worked to isolate certain organic compounds deemed essential for human health. When one and then a second were discovered.

they were called "fat-soluble A" and "water-soluble B," later renamed more spiffily as vitamins A and B. Other vitamin names followed, including subdivisions of B.

A is, of course, a vowel letter. That means it represents certain sounds from the vocal cords—our word "vowel" coming via medieval French from the Latin adjective voxels, "vasing the voice." Vowels are spoken without much interference or shaping in the mouth. Sounds involving blockage or friction are classed as consonants.

Written English has five proper vowel letters, A, E, I, Q, and so yabuletine for L) Yet spoken English has some ao shades of vowel sounds. Accordingly, our vowel letters are kept busy, each one symbolizing multiple sounds on any written page. Our letters get some help from rules of spelling, which, for example, can specify the long A of "rate" versus the short A of "rate".

A has about a dozen possible sounds in English. Here are six:

"Metal Allah's pa all pale?" (Or you may find only five A sounds
there, depending on your regional accent.) The first sound in
"Allah" is our usual short A. However, the slightly different short
"Allah" is our usual short A. However, the slightly different short
and pronunciation in most other European languages and is
thought to have been A's pronunciation in the ancient European
tongues Greek, Eurusari, and Lalah

This "als" sound is fundamental to human speech. The mid-20th-century linguist and alphabet scholar David Diringer calls it "the purset and simplest wocals sound, a uttered by opening the air passage of the throat to its fullest extent. It is regarded as the most primitive wowle sound and is the first sound uttered by a baby." How like our A (first class all the way) to bring home a most essential sound.

Yet it wasn't always so. Three or four thousand years ago, the first letter didn't say "ah." Like every other vowel letter in our al-

phabet, A began life as a consonant, with a different sound. This isn't a complicated notion: Written letters are mere convention, changeable according to need. Today the familiar letter written as C means sound "j" in Turkish; the letter j means "y" in German and Swedish. The symbol A could mean "z" or "th" or anything che, if everyone so agreed. Early in history, something like that was happening.

The original A is as old as any letter. It makes its entrance in the earliest alphaetic writing yet discovered: two limestone-carved inscriptions at Wadi el-Hol in central Egypt, the work of Semitic speakers, perhaps mercenary soldiers, around itso o.e. As all our original letters were pictures, the A was a picture of an ox head, vividly rendered. The picture letter was called "ox"—aleph in ancient Semitic tongues.

The earliest letters were consonants, for writing abbreviated words. Vowel sounds, although they occurred in Semitic speech, did not need to be shown in writing. Aleph represented a faint consonantal sound common in Semitic tongues but rare in modern English, what linguists call a glottal stop. The classic English example occurs in London's Cockney accent, in the swallowing of the "t" sound of the word "bortle": "halt-ower." A glottal stop is thus a catch in the throat, from which a following rowed sound pushes off.

Insofar as each Semitic letter name began with the very sound that the letter symbolized, the name aleph actually began with a glottal stop, a bit of throat before the "a." This fact is hard to render in our own spelling. But some modern scholars print the letter name s: aleph (alternatively 'alg or 'alep), where the mark ' is an international phonetic symbol for the glottal store.

We know that aleph was the first letter of the alphabet in at least 1300 B.C., the approximate date of the oldest Canaanite letter lists uncovered by modern archaeology. Letter lists from Phoenicia, a few centuries later, likewise show aleph first. Because letters gen-









erally stay in the same order over time except for some very good reason, modern scholars consider it a sure bet that aleph was the first letter of the original alphabet of about 2000 B.C.

How and why aligh was chosen for first place, we will never know. No modern explanation satisfies—especially not references to the sacredness of the bull in ancient Mediterranean and Near Eastern cultures. Some letter had to start off the mmemonic string of letter names for the student, and "or," was a clear concept and image. Because aligh came first for the Bronze Age Semites, the letter A comes first for us.

Today a letter called aleph or alef remains the first letter of the Hebrew alphabet. (Ancient Hebrew letters were originally copied from the Phoenician.) The Hebrew name is still understood to mean "ox." but the glottal stop is gone from the letter's name and sound. Modern Hebrew alg' carries no sound itself; is job is to show various vowel sounds according to special marks written below the letter's baseline. In shape, a printed Hebrew alg' looks on very Phoenician." The lack of resemblance is due to the fact that Hebrew script underwent a major change during its history, et originally, around 950 n.c., the alghy of Hebrew and Phoenician looked identical. The kinship can still be seen in modern Hebrews cursive shape for alg', **k**, which recalls the Phoenician letter of 1000 n.c.

In Jewish lore, Hebrew alef enjoys a philosophical glory greater even than that of our A. According to mystical writings such as the medieval European compilation called the Kabbalah (Hebrew for "tradition"), alef symbolizes the divine energy that preceded and initiated Creation. This sedding power existed before any other form could be realized, which is why the opening wood of the Hebrew Bible—Powthold for inthe beginning?—starts with the Hebrew alphabet's second letter, not the first. Correspondingly, alef may represent a person's readiness to act, while the second letter, blot on bar, is imagined as the door of things. Hebrew algo could also be used to signify numeral 1 and was a symbol of cosmit ou mits.

Just as Phoenician aleph was the mother of Hebrew alef, so was it great-grandmother to our A, by a different line of descent. Ours is the westward branch of the family, linking three ancient European peoples: the Greeks, Etruscans, and Romans.

First, the Greeks. Sometime before 800 as.c., with no existing writing system, they copied and adapted Phoenician letters for writing Greek. The operation was miraculous in light of how different were the two languages, Greek and Phoenician. The Greeks made one major adjustment: They created five vowel letters, by changing the sounds of five Phoenician letters that were other-

wise superfluous for Greek. One was aleph, representing a subtle, Semitic throat sound unknown to the Greeks. The adapters kept the letter at number 1 but reassigned it to the most basic vowel sound, "ah."

The choice of "ah" was probably prompted by the Phoenician letter's name, whose first syllable contained an "ah" sound: "a-lgf Maybe the Greeks couldn't even hear the Phoenician glottal stop in front and thought the Phoenician letter name began with "ah."

To Greek ears, all the Phoenician letter names were just foreign noises, not names of familiar objects. The Greeks altered the names to make them easier to say. Aleph became alpha, a name also meaningless in Greek (beside denoting the letter) but at least Greek in style.

Today the word alpha lives on prestigiously in scientific and technical voacubulary and in name branding, usually signifying something that's first, strongest, or best. The "alpha male," for example, is the strongest in a pack of baboons or wolves. Alpha may represent cosmic first principles, for instance in a well-known phrase from the biblical book of Revelation (written in Greek around a.D. 100; "I'am Alpha and Omega, the beginning and the ending, saith the Lord." For its effect, the passage brings together the names of the first and last letters of the Greek alphabet. By the way, our very word "alphabet" combines the first two Greek letters' names, alpha and beta.

Meanwhile, the ancient Grecks were adjusting alpha's shape. The Phoenician letter that they had borrowed had a shape something like this: & . However, because the name alpha did not mean "ox" to Greck speakers, the letter had lost its purpose as a picture, and within about three generations of acquiring it the Greeks decided it looked better standing on two feet: A.

This mature alpha was basically the same as our A. It retained its



(1) Phoenician aloph of about 800 B.C., in the era when the Greeks were copying Phoenician letters for themselves. Phoenician writing ran from right to left; thus, the aleph led with its point. (2) Greek alpha, from what is probably the earliest extant Greek inscription, of about 740 B.C. Like the Phoenician aleph that impired it, this alpha lies on its side. However, the Greeks were already experimenting, for this letter is a mirror image of aloph: It leads with its feet in a line of Greek writing that runs right to left, whereas an aleph would face the other way. (Early Greek writing could run right to left or left to right or, in some longer texts, both ways, using a systematic meander called boustrophedon, "as the plow-ox turns." By about 500 B.C. Greek had settled at left to right.) (3) Alpha stands upright in an inscription of about 720 B.C., and thenceforth that is the norm. (4) An Etruscan letter A of about 500 B.C. The Etruscan letters had been copied from the Greek, and they, in turn, would be copied by the early Romans. (5) Roman A of A.D. 113, from a famous inscription at the base of Trajan's Column in Rome. Like most of our capitals. A reached its perfected form in Roman marble-carved inscriptions of the first century B.C. to second century A.D. Roman design refined the letter's shape, widening the right-side leg and adding strokes (which we call serifi) at the feet. Nearly 14 centuries later, early printers in Venice would copy this and other Roman lettering, to create capital letters of the new "roman" typeface.

shape, sound, and first place when the Greek alphabet was copied by the Etruscans of Italy, around 700 B.C., and when the Etruscan alphabet was copied by Latin-speaking villagers of Rome, around 600 B.C.

Our name for A comes from the Etruscans: Receiving the Greek alpha, they simplified the name down to the letter's sound, calling it something like "ah." The Romans did likewise, and "ah" remains the letter's name as pronounced in Latin-derived modern languages like French and Spanish and in some non-Latinate European tongues like German and Croatian.

English gets most of its letter names from Old French, imported to England perforce by the Norman invasion of A.D. 1066. For centuries after the Battle of Hastings, A's name was probably penounced in England as "shi." But due to fundamental shifts in English word sounds during the 1400s and 1500s, the name altered, eventually rhyming with "pay" (Phonetically, A must be Canada's fixorite letter—ch?)

During the Roman Empire and early Middle Ages, alternative shapes for A emerged in ink handwriting styles, due to a natural learning toward greater speed and ease. The Roman penned shape Å led to the late-Roman Å and eventually to Å, which was the "Candingain minuscule," created by churchmen of the French king Charlemagne around A.D. 800 in their reform of handwritten shapes. This particular letter shape had a rooy future. In the 1470s, and the burgeoning of printing in Western Europe, one school of type designers copied their lowercase letters from the handwriting tradition that perpetuated the old Carolingain shapes, and so Å got finalized in print" a. But other print styles used a lowercase shape from a different handwriting tradition: O.

Both forms endure. Today O is our model for handwritten shapes taught in elementary school. In print, it shows up in some fouts that are SOR5-SEMF or Italia. The a dominates, however, as used in ubiquitous roman fonts and in others. Only letters A and G share this odd distinction of owning two modern print-lowercase forms. Every other letter has just one, essentially the same for all typefaces.

Princely as it is, A fails to come first in one category, at least. For frequency of use in printed English, A ranks third, behind the clear front-runner, E. and then T. (Both E and T are helped by the word "the") Also. A has acquired one actual discredit throughout history. In medieval Europe and Puritan England, A was associated with adultery (Latin: adultrium), generally tried as a criminal offense. In addition to punishmens like flogging, a convicted spouse might be forced to wear a humiliating badge showing an A or AD. Such facts form the background for Nathaniel Hawthorne's novel The Saatle Later (1850), set in Puritan Boston in the mid-160so. Protogonist Hester Pyran is convicted of adultery and must publicly wear an A of red cloth, sewn to be trustic best of the state of the service of the ser

Hester's tale has touched many hearts, not least that of con nan "Professor" Harold Hill in Meredith Williams 1957 Broadway musical, The Music Man. Stuck in local Iowa, Hill sings of his longing to find a worldly, experienced woman, a "sadder but wiser girl".

I flinch, I shy when the lass with the delicate air goes by.

I smile. I grin when the gal with a touch of sin walks in.

I hope, I pray for Hester to win just one more A.

. . . The sadder but wiser girl for me!



### PHOENICIAN LETTERS AND THE GREEKS

## The Eastern Mediterranean in 800 B.C.



The Greek alphabet may have been born at Cyprus or at nearby Al Mina, on the Syrian coast. In both places, Greeks and Phoenicians lived side by side.

From Phoenicis, the letters of the early alphabet traveled westward to ancient Greece. The Greeks copying of the Phoenicisan alphabet, around 800 B.C., was to be one of the most consequential events in history.

The Greeks of that era were an ambitious but relatively humble people, illiterate, disunited, and far junior in wealth and power to Neur Eastern nations like Edgpt or the Phoenician cities. Greek territory of the day corresponded loosely to the modern nation of Greece—the mainland and the Aegean islands—with the addition of some Greek cities on Gyprus and the west coast of Jakia Minor.

Unlike Egyptians or Phoenicians, the Greeks spoke a language of the Indo-European family, to which ancient Latin also belonged. Today some 60 major Indo-European Inaquages exist worldwide, including French and Spanish (descended from Latin), also English, German, Hindi, Farsi, Russian, Irish, and other tongues of Europe, Central Asia,

CONTRACTOR

and India. Linguists classify modern Indo-European tongues into eight subfamilies. English belongs to the Germanic subfamily.

Indo-European languages are capable of wonderful precision. for example, in variations of verb form to show many possible differences in tense. As a rule, Indo-European tongues rely heavily on vowel sounds to establish word meanings, as in distinguishing the English words "hall," "hell," "Hell," "hill," "hole," and "hull."

The deatiny of the Greeks was to be shapen of the West During the hepshy of the 400s and 300s B.C., Greek minds would pioneer many of the civilizing arts that define us today. The Greeks invented democracy, stage tragedy and connely. Western philosophy, investigative history-witting, hislogical research, and political theory. They perfected the study of geometry, the sculpting (in bronze and murble) of the human form, and a monumental architecture that we initiate for our court-houses, museums, and other verenable public hubblings.

Obviously, their alphabet is part of their legacy. The Greeks bequeathed to the West an alphabet that had been adapted to an Indo-European Integrated to the West an alphabet that had been adapted to an Indo-European Indiguage (Greek) and was therefore accessible to other European tongue, Specifically, the Greeks had introduced vowel letter—the equivalents of our A. E. I. O. and U—where earlier. Sentitic vencions of the alphabet had contained none. Vowel letters brought the alphabet forward to a point where it could be fitted to most other languages. The Greek letters were the necessary bedgeround to the creation of the ancient Roman letters, which latter beam cour own.

All of that lay in the future in 800 B.C. Greek genius meanwhile chowed Itaelf betweekers in religious news in a woulth of furths and legends, handed down through oral-postic tradition; in an enthusium for trade and susfaring and in a talent for expectating land often improving on other peoples shills. As the Greek philosopher Platty would later claim. Whenever Greeks take anything from foreigners, they eventually bring it to a generate prefection. The early Creeks had opportunity to study the Phoenicians. The two peoples were trule partners at locals mainly on the Creeks side. Phoenician merchant ships brought Ness Eastern hunry goods to exchange for Greek raw materials like silven iron, and alones (these being mostly Greeks, enalased by other Greeks in the internal ware that hlighted their society). Phoenicians sailed to and from ports of mainland Greeces and of idantal like Creet and Roboels. More significantly, Greek and Phoenician communities creatized on the south coast of Cyprus and at an innortant trainfast station in the north Levant. now called Al Minn.

Modern study reveals several Circle horrowings from the Phoenition. Among them (i) improved hij neight, for merchant and war vessults (2) techniques of long-range meiglation, (1) certain visual modifi, in artwork, including the Near Eastern tree-of-life design and an imaginary, dragodible beast, the geifflin (1) the religious cell of a protective, sexual gedeless whom the Phoenicians called Astarte and whom the Greeks reamand Aphrodite, along with a belief in her doomed human consort, known in Circle as Adonis (from the Phoenician Semilir word adonts. Tort), and (5) the Phoenician alphabet.

The oldest surviving Groot alphabetic invertigations are verathen in exrunis or stone, dated from about 700 to 700 BC. The surfact of these seems to come from the third or fourth human generation of Groot alphabetic lixerus; In the inscriptions, the Groot letters display their origins. They cloody resemble Phoenician letter shopes, with many (ont all) of their sounds being the same as for the Phoenician versions, except that the letters are now hoists and to convey the speech sounds of Groots.

Despite the fact that Phoenician and Greek were languages as different as Arabic and English, the Greeks evidently had picked up the 22 Phoenician letters, made some changes, and started writing. The adaption was possible partly through the Greek genius for tinkering and partly through the magical flexibility and aptness of the letters themselves.

Only one major change the Greeks made, as mentioned: Out of a Phoenician alphabet of all consonants, they invented five vowel letters,

the equivalents of our A. E. I. O. U. In a future century, the mature Greek alphabet would contain seven vowel letters, with long E and long O distinguished from shore E and O. But in the meantime, five was the number of vowels that would reach Italy and be copied into Italian alphabets like the Roman. That's why our alphabet has only five vowel letters today. Retachlick the details of the transmission from Phoenricians to

recepturing the election of the furnamental from Enderthank Creeks, we know nothing not who, where or when eastly Probably the Phoenticinan were merchants, on good terms with Greek counterparts. A later Greek legend achmoveloged the debt to Phoenticia Albudyah distortedly. Once upon a time (the tale run), a Phoentician prince named Cadmus had immigrated to an illiterate Greece and had taught local people to use Philitiking garmantae, Phoentician letters.

Wherever it was born, the invention spread very quickly through the small Greek world, along sea routes. Probably by 600 BC, every Greek city had a literate upper and middle class. The swift transition to literacy, in a Greece still imbased with an oral tradition of myths, meant that these could be written down, fesh in memory. Two materprises of Western literature are among the results the epic poems litted and Orfogo, written down around 750 BC. and ascelled to the blind poet Homer. But many other tales went into writing them, which is why today we have record of a rich Greek mythology. Those legends were captured, as in a photograph, by alphabetic literacy.

THE GREEK ALPHABET

THE PHOENICIAN ALPHABET OF 800 B.C. AFTER 800 B.C.

Letter Shape	Sound	Name	Letter Shape	Sound	Name
4	broathing stop	aleph	A		alpha
9	·6-	bout	8	-b-	beta
1	30	gimel	1 or )	"g"	gamma
٥	-d-	dalet	1 or a	-d*	delta
4	"L"	he	7	·-	epsilor ("naked E"
Y	~~	avaur	4	~w~	wav
I	7	aggin	T.	-da"	zefa
В	guttural "kh"	Met	B	-h-	eta
0	emphatic "t"	tet	⊕	"th"	theta
3	·y	god	1	Y	iota
¥	1k*	kople	×	"k" (1)	Åeppe
1	1	lamed	1	4	lambda
7	""	mem	71	""	mu
2	· n ·	nun		"."	reu .
Ŧ	v	samek	<b>H</b>	ls.	Šui
0	guttural sound	again	0	-0"	o mileon ("little O"
2	*p-	pe	7	P	pi
14	"ta"	tsade	Μ	modified "s"	NAT.
9	¥	qoph	Ÿ	"h" (2)	форра
9	7	resh	9	7"	rho
w	"Ab"	ahin	3 or 5	v	siĝmo
T	7	faw	1	·+-	Sau

Four Greek letters added by about 750 B.C. u pelon ("nahed U") οĥi OR bhi OR "ph" phi OR "LL" ILL Last letter added by about 660 B.C. long o omego ("big O")

The early Greek alphabet followed the Phoenician in its letters' shapes, sequence,

names, and (for the most part) sounds. The urra earliest Greek list perhaps had 22 lettree, ending with the T letter like the Phoenician. Within the 22, the Greeks recusioned a few letters to new sounds discording cortain Physician sounds unneeded for Careb continued In this way, the Greeks invented four vowel letters, the A. E. I. and O equivalents. The first of them was the first letter of the Greek alphabet, alpha.

The 22 letters proving not adequate, the Greeks soon created four more, including vowed U, adding them to the end of the letter row. Finally they added 2 pth letter, or megao comage (See O) to a done the long-O sound. The section O letter horse-forth confined to shoot O, was renamed a mikron (little O), or omicron, as we usually spell a Leventually the underward was, san, and qopps dropped out, leaving the manher alberton a manuface alberton of the specific of the specific of the specific or the specific of the specific or the specific

The early Greek alphabet had three slightly differing forms, used in different region. The East Greek variant, adapted by the influential rity of Athens around 400 BC, would frow into the modern Greek alphabet. The West Greek variant would travel to Italy to become the "grandmother" of the Roman alphabet.

The three alphabets varied at the end of the letter row, just before amega. The chart (page 61) shows the more familiar East Greek ending, with the West Greek alternative at bottom right—containing our future letter X, with its relevant sound. "ks. The Greek names of the lest 22 letters mainle school the Phoentisian names, in a

Greek form. But where the Phoenician letter names were also Semilic common nouns (ou." house." throusing stick, etc., the Greek names had no price meaning in Greek They gut detend the text. Enday Greek the names lies on in an existified and thenical coewhalery, our featernity and sorreity names, and our business and brand names. The fourther are alpha, beta, Samma, delta, and omega.

One asuke of the Greek oldshoeth on biscinated whothers. The critical Greek

adapter aggreeful made into mittaken it transcribing the Phancian subdata the train incling 35 types annull. For this other test, the Credw to the Second and some of Phancian state but the shape and sequence position of Phancian state but the shape and sequence position of Phancian state but the shape and sequence position of Phancian state but the shape and the shape and Phancian state but the shape and the shape and position of Phancian shape the shape which the shape and position of Phancian shape and the shape of small and we notice the spring paths the tester function that their offers shall be shaped per all and we notice the spring paths the tester of the shape and the sh



Bower to be people. The dipholest, in delivering must literacy, has for eign been a reservator of dimenses;—a relationship endochoid in lower creamin problests, invised with Greek letters, from ancient Athems, the worlds first democracy, Falling in date between closed 450 and 440 lKC, each sheet corries the same of a prominent Athemsia publication of the mer. Checkwise from to plot, Aristotics, nor all Zumbanton. Themsia tolders, and Northerica from the Zumbanton. Themsia tolders, and Northerica from the Zumbanton. The minima of Northerica from the Zumbanton Themsia tolders, and Northerica from the Zumbanton Themsia tolders, and Northerica from the Zumbanton Themsia tolders, and Northerica from the Zumbanton Themsia tolders.

These terms are note to have the non hashful. Cornaic about fourths in two fived height has simple useful several new propers the far arrange has below and as falled in a partier called cutstakinto (setration), using the Nobemia democracy described in the state beam hashful to set the banks on gettime. On twoins was not a positionent for riverse committed Rather it was the people independent particularly and expected in the people independent for expectfully, alguard patients and the right solvine for proper and on set to democracy. An interior color had no monomed conduction proper and on set to democracy, it is strictly under the them interiors being directly. Ballet a superior had a set of the set of t

Serfmami dim umir edamus. Penny

Ameno dira qui fait ne, printi a constituti di manta di mini aduji in franca confilio impiesi in in via perde ni di finiti di manta di finiti di mini di mini

and thou publisher affirm to the control of the con

Imitating medieval manuscript illumination, a deco-

rative print B dominates the opening page of the famous 1457 Latin Psalter, a collection of psalms for church

use, printed by Johann Fust and Peter Schöffer at the German city of Mainz. The

text presents the start of Padin 1: "Blessed is the man (Beatus vix) that walketh not in the counsel of the ungodly. . . "The letter shapes are based on a traditional German handwriting style. This was among the first books printed from metal type, following Johann Gutenberg's Bible of about 1455. Fust had been Gutenberg's investor and had sued and bankrupted him, exidently sixing Gutenberg's letterpress and tools—and probably Gutenberg's desire for this fine Padies:

# B-LISTED B

B

elow the best, or second in sequence: That's the message we get from letter B. Think of Plan B, the Blist, B-rated bonds, grade-

B eggs. More so than other letters, B has lived centuries in the shadow of its exemplary sibling, A. The whole point of B, in many uses, is that there exists an "A" version, which is better.

The eloquent term "B-movie" refers to a Hollywood-type film that's inferior, with shallow plot or characterization and maybe a cheap production look. B-movies often come from B-scripts. The B doesn't stand for a word (these movies aren't bombs, necessarily); it just announces a shortfall. We don't even have an expression like "A-movie." The B creates the whole comparison.

The B-girl appeared in print in the early 1930s, not long after the repeal of Prohibition, and remained familiar until at least the 1960s. Here B did stand for a word, "bar." The girls were young women, hired by nightculus and such to sit at the bar and pretend to be customers. Their job was to enhance the atmosphere and induce male customers to buy them drinks; the women might be served glasses of lukewarm tea, disguised as liquor. Again, B comes off as a bit tacky.

Despite such imperfect impressions, the letter B has done yeroman service in the alphabet for 4,000 years. It symbolizes a sound that is basic to human speech, categorized by linguists as the voiced bilabial stop—in other words, the sound engages the vocal cords, is formed by two lips, and involves stoppage of air through the nose. With no tricky use of tongue or teeth, "b" is relatively easy to say. Babies say it all the time (the thinsy 16-month-old warns her "bab-bab"), and many of the world's lamgues, past and present, have included it. Cur B represents probably the same sound carried by the analogous letter in Near Eastern albubbate of 30 or as occurried as.

It is a consonant sound. Therefore, B is a consonant letter, the first in alphabetical sequence of our 21. If asked at a dinner parry to define the word "consonant," someone might venture, "Well, I know it's not a vowel . . " and that actually is the best starting point. Whereas words are pronounced from the vocal cords with minimal shaping of expelled breath, consonant sounds are created through obstruction or channeling of the breath by the lips, teeth, tongue, thotat, or masl passage, variously combined. Some comonants, like B, involve the vocal cords; others don't. Some, like R or W, flow the breath in a way that steen them relatively does to before yowls.

We get the term "consonant" via medieval French from an ancient Latin word, consonans, "sounding along with." The idea is that while vowel sounds can be pronounced on their own ("Eee! I owe!"), a consonant normally can be pronounced only with a wowel before or after. Try saying the "b" sound alone and you'll probably wind up cheating, tacking on a vowel sound: "bih."

This rule isn't bulletproof. A few consonants am more or less be pronounced alone, particularly those with a continuous sound, like F or Z. Still, you'll need effort not to relax into "fih" or "zuh" at the end.

The oldest version of B appears in the earliest-known alphabetic inscriptions, discovered at Wadi el-Hol in central Egypt and dated to 1800 B.C. The letter is a prominent presence in other Near Eastern alphabetic inscriptions of about 1750 to 1200 B.C. But the early letter is most familiar to us from its systematic use in ancient Phoenician writing, after about 1500 B.C.

The Phoenician letter had two traits we recognize easily: It represented sound "b" and came second in the alphabet. Like every Phoenician letter, it was named for a familiar object, the object's



(0) The Egyptian Yord todam's houghpt represented used "8" in Egyptian pieces artising, around 20 note. This public lebellered is keeping location and Egyptian Section, litting in Egyptian Sections. Litting in Egyptian Sections. Litting in Egyptian Section Active Integrated Sections (1997) and the Egyptian Section Litting in Egyptian Sections (1997) and the Egyptian Sections (1997) and the

name starting with the appropriate sound (an aid to memorization). The letter's name was bayt or beth, "house" in Phoenician and other Semitic tongues. In shape, it resembled our figure 9.

Between about 1000 and 800 N.C., the Phoenician letters were copied by other eastern Mediterranean peoples, induding the Jews (whose language was very similar to Phoenician) and the Greeks (whose was not). Today, in the Hebrew alphabet, the second letter is still called day or bet or, more traditionally, deh. The Hebrew name means "house" and the letter carries the "b" sound, although its shape no longer resembles is ancient Phoenician mice the production of the shape no longer resembles is ancient Phoenician mice.

Apart from the letter name, the Hebrew common noun beth has had a lively history of its own. It contributes to such familiar place-names as Bethlehem (house of bread), Bethel (house of God), Bethesda (merciful house), and Bethpage (bet faj, "house of unripe figs").

When the ancient Greeks adopted the Phoenician alphabet, they kept byt much the same as it had been. The letter remained at the number-2 place for the Greek alphabet, with the useful sound "b". However, to the letter's foreign name the Greeks added a Greek-style ending, turning the name into beta, pronounced "bay-ta." Unlike the "house" of Phoenician and Hebrew usage, the name beta had no meaning in Greek beyond denoting the letter.

Greek keta departed in shape from Phoenician høyt, eventually looking just like our B, indeed, it is a source of our B. Among several alternatives, the shape 8 or 8 shows up in Greek inscriptions by the 600s B.c. (Mirror imaging occurred because early Greek writing could run from right to left or left or right, before settling on the latter, around 500 B.c.) The Greeks had given heta a second 100p, at the bottom, probably to distinguish it from the very similar-looking R letter, written as 9 in Phoenician and in early Greek. Today capital B and R still resemble each other in our own albabact.



Above: The beat can easily be globed and in an orably Grade incorption on a commit include the distance and reflection from served does. (Cit The text happe anging permit in the less are share on page 6:) Cradely searched into the final disp, the learns was right to high correcting the earn of the orable aphabest rather close alphabest with both text gamma, delay engline. Probably searched and the server of the search and the delay control for the search application and models for permit the description of the search and models in orange with the search and models of the search and th



The word leta as a common noun turns up in ancient Greek literature, meaning an item second in sequence or value. For example, Entosthenes of Cyrene, director of the finnous Library at the Egyptian-Greek city of Alexandria in the latter 2008 a.c., was a scientist, mathematician, geographer, historian, philosopher, poet, and literary critic, best recalled today for accurately calculating the polar circumference of Earth from systematic measurements of shadow angles. He was fondly nicknamed "Beta" by Colleagues, for while he excelled a turny studies, be pecialized in none and generally came second in knowledge, behind the resident exerts of each field.

Today the word "beta" lives on, sometimes pronounced "beeta," in scientific and technical wocabulary. It still means "second place," usually in context with its brother alpha. The beta version may be weaker, later, or more refined.

For attronomers, the beta in any constellation is the secondbrightest star there, behind the alpha star. Zoologists say that wolves, baboons, and other grouping mammals tend to produce two types of males: leaders and loyal followers. Leader types are called alpha males; followers are—you guessed: It. In autumn 1999 the term "beta male" blazed to notoriety in the United States when the press learned that a campaign adviser to Democratic vice president and presidential candidate Al Gore was using those words to refer to Gore's perceived subservience to President Bill Ginton. The adviser, an author aptly named Naomi Wolf, urged Gore to challenge the president on issues and thus appear more like an alpha male. Gore lost the 2000 election to George W. Bush (on whom see Chapter W. page 3196).

The beta version of a software program is the second prerelease stage, from which the worst bugs of the cruder "alpha" have been ironed out. The manufacturer distributes the beta to cooperating companies so they may "beta test" it in time to generate helpful criticisms for the sales version. Back in 1931, European chemical research into the body's craation of vitamin A from certain foods had focused on the role of carotene, a hydrocarbon pigment in carrots and other vegetables. Carotene was found to have at least two components, which scientists amend alpha-carotene and beta-carotene. Today beta-carotene, available in vitamin julis, is prized and even overrated as a health booster.

But onward from beta. When ancient Greek traders brough their alphabet to talky in the 700 s.R.c., the Etruscan people there copied the Greek letters for themselves. Beta was adopted into the Etruscan alphabet and from there into the alphabet of the early Romans, whose letters would eventually become our own. The Romans and Etruscans, abridging the Greek name beta, called the letter something like "bah" or "bak".

Like most of our letter' names, our name for B entered English from Old French after the Norman invasion of England in A.D. 1066. The French evidently called it "bay" (they still do today), a name derived from French's parent tongue, the Latin of ancient Rome.

If you could ask a medieval Parisian to spell the letter's name, pronounced "bay," she would probably reply "B-E"—that is, the



(b) The Roman B of the 2000 A. Colord from the in Coron and Erroman Species, (b) Later Roman B attained more believes and edippers, as in the campile from the incurption on The injuried Colorm, A.D. 123. This love to the one emply enlarged later long to "support "the upper one, and upper distinged later long to "support the upper and earlier and open distinged later long to later long to the "tomat. The shape attention long in our "remains to distinge with printing upper later and other and "specific as at other Later The shape attention long in our "remains" that the later later and "specific as (c) Our lowerant b shape energed amond soo, in the Later in the Machanitrium gloss from an arrive sized, Sixthe long normalized gapes long for the dark in Machanitrium gloss from an arrive sized, Sixthe long normalized gapes long for the dark of specific for under Lino years dates, early European type designers would adapt this readitional promote flates to the three print lawareas. In

### B'S SECRET ADMIRERS

Phonetically: B has attachments to several other letters. If you try to say the sound "b" without using your vocal cords, you more or less say "p." Thus P is the "unvoiced" counterpart of B. The relationship comes out in a word like "spin." rather different-soundine from "nin."

That B and P should look similar as well as sound similar may not beconcidence. Within our slipshest are seven informal parings leters silke in both sound and shape. Examples include C and C, M and N, S and Z, and B and P Although the stories behind the parings differ in detail, they typically begin with two letters that have related sounds, followed by a gradual change in shape of all less one of the letters, so that it goves to reached the other. Untilly this happens during an early stage of Greek or Roman writing, in the centuries before Christ.

Such convergence was probably deliberate on the part of the people doing the writing. Ancient Greeks and Romans may have found that moderate pairings made the letters easier to learn. In the case of B and B the P letter changed its appearance completely, from about 800 to 500 B.C., in order to reach its present resemblance to B.

B also has a relationship with M—and not just through the old, polite initials for "bowel movement." While the two letters sound different, they use much the same speech mechanism, both being voiced hisblais. To discover the connection, pinch your nostrils and say, "My mommy meets me." It comes our a bit like. "By bobby beets be." (This shows also that sound "m" relies on airflow through the nose, while sound "b" relies on boxine in which you do

letter itself plus a long E. Likewise, a Londoner of Geoffrey Chaucer's day (1860) would have said "bay", spelling it "B-E." So would a modern Frenchwoman, Spaniard, Italian, German, or Pole. To the ears of all of them, the "ay" sound would mean long E. We modern English speakers accept the spelling "B plus long E." we of course we promounce it "bee."

Modern English is the oddball here, due to tidal shifts in our

without thinking.) Similarly, if you'll please let go of your nose now, you'll have no trouble saying "mmba." The sound of B launches naturally from M. The "mb" combination shows up in English in words like "combination"

The "mb" combination shows up in English in words like "combination" and "dumbbell." It occurs frequently in some of the Bantu languages of Central and Southern Africa, contributing, for instance, to place-names like Zimbabwe, Mombassa, and Mbandaka.

Lastly, V. Among languages of the Indo-European group, the sound To has a tendency over centuries to decay, surining to "o" or one of several other sounds. This has happened strikingly in Greek. Since about A.D. 400, Greek words and names that once contained To "now have "v" in the same place, with the result that modern fear represents purely sound "c". The northern Greek town name written as Bolois pronounced "Volos," where Socrates would have read it as "Bolos. The ancient word for "hing," feating distanted in the Priene inscription shown on page 69), survives in modern Greek, only now pronounced a "vasil-effs." From this pronunciation, used by the medieval Byzantines, cause the Russian first name Vasilay and militar Examer European names, trins, cause the Russian first name Vasilay and militar Examer European names.

When Old French emerged from Latin in the early Middle Ages, many works contained a slaving of what had been Latin sound "8"—with consequences for English after the Norman invasion of England in A.D. 1066. Here changes can be traced in spellings. The old Roman anternat became a French automated and the stream. The Roman military slang wood for 'bones,' calvalla, became medieval French anal and ornat, which have produced English 'cavally,' "cavaller,' "woulded," and modern French orland and ornat devated (Vinglish, grander,). Meanwhile, Spanish, generally less changed from Latin than French is, holds on to Latin "b' in cadallal and stuffern.

wowel pronunciations, during the 1400s and 1500s. Amid countless changes in sounds of English words at that time, B's name went from "bay" to "bee." For a sense of the old pronunciation, ask an Irishman to say "B," and you may hear something like "bay." It's a name reaching back to the bay of the Bronze Age Near East.



### GREEKS, ETRUSCANS, AND ROMANS

From Ancient Greece, the Alphabet Traveled Swiftly West to Italy



Looking largely familiar, letters of the Errucan alphabes adore a rooster-shaped ceramic jag, possibly a child's passession, from an Errucan tembe at Vistrely, so miles morth of Rome, from about 50 80. The letter, 36 in all, continue around the circumference; they were scratched in after the clay was fired. Copied originally from the West Circk alphabet, the Errucan letters would provide the model and impiration for the Roma albabets:

Just as the Pheenician betters could not be confined to the land and language of Pheenician, and the nodes created Greek betters some take hold in a fooriga land. Baly During the same era when the Greeks were capping the Phoenician alphabet—and in the same aspirited quivit of suspitalism—evertain Greek marine cities were exploring long-distance trade context with people of Baly, non-Greeks, chief of whom were the Etruscana. The Greeks goal was the mineral wealth of Baly and further West Europes shere, inca, and the esemponents of Borotze, copper, and tin. The Etruscans, as owners or middlemen, could belp provide these.

Because the Etruscans were based along parts of Italy's west coast, the Greek shipping route first had to reach there, by rounding Sicily and the foot of Italy. The exploration of the route, around 800 B.C., is probably re-





'Amongsi nome in two by Livines, the passeyns in incurate mainty amongs of the Bay of Capusa, from when they trailed with French wither annual Camos, on the Bay of Napher, from shout 755 to 478 th. In the same even, many non-Ernesson exits of Hugh were railed by Ernesson occerbon, including one city with a special density, Rome. This may befus explain how the letters of the alphabet passed from the Greeks to the Ernessons to the Rommon all within about a century, 2006 to 600 BC.

called distortedly in the Greek hero Odysseus' leģendary voyaģe amonģ monsters and witches of the western seas, in bools 9 to 12 of the Odyssey (written down around 750 B.C.).

Modern archaeology reveals that Greeks arrived in Italy in about 775

R.c., setting up a trude depot at the Bay of Naples, on an offibore island now called Leshis. Undoubtedly they did no with Etsuanan permission. Later the depot would move ashore and become the Italian-Creed city of Cunnas, whose remnants still stard. Later still. Greeks from Cunnae would establish a nearly-New Crip. (Torsek Napright, dough the fallain support of Naplesh, nechanges for raw metals, the Creeks probably affered lusury goods wine, perfumes, and metals-ook including uternals, jewely, and woopensy. Greek settlers and in-protos would have perfound effects, good and loan entaries ballan peoples. Ne-quantity wirting, Italy had none at the time, entire alphabetic nor another form. Simificants, we of our artifiest harmon Greek injections from some

where comms from Inchin Archaeology has turned up a Greak erunit e.g., dated to second 723 K.C. with a joind message seathed into its outer surlate. Probably election to boainceasment of rindsing parties where formed also we orderation, the words read. "I am the cup of Nestor, a jet to drift in Moneyer drinks from this equ. jimudelicky will desire of lovely-gerlanded Aphrodite size kim." The phenas' cup of Nestor' involves a ophisticated police. The Nestor of legend was a Greek hing, one of the beroes of the Tro-jan Wars who is described in Homer's Blad as owning a huge gobiet of Demarks and the state of th

Still, the cup is very valuable to 115, for its inscription proves that the Greeks of Italy were using the Greek alphabet in the decades before 700 B.C. No doubt they were observed in this by their illiterate trade partners.

Enthusians for Greek goods and culture was to be a defining trial of the Extracans. Over time, many Eruscan religious beliefs, social costoms, militury practices, and styles of art and architecture would be impired by Greek examples. Modorn scholars often reserve the very term 'Etruscan' for the Greek-inflament of eviluation that that only shape during the Koon R.C. and peaked just prior to 500 R.C. The earlier, formative stage of the same people is distringuished as the Villianous Culture (named for an archaeological site nor Bologas). A regige toul fibrewer the two is 700 R.C.

The Etruscans were a federation of city-states, joined by landsunge and culture, each city typically governed by a king. Their home region lay between the rivers Tiber and Armo—from north of Rome to Florence and Areazo on a modern map—and their name survives in the modern regional names Tiscans and Tiscais. At Etruscan power model far beyond by 800 a.c. they held Capua (they may have founded it), far to the south. Capua became their conduit to Greek trade on the Bay of Naples, By 550 B.C. they had reached northward, also, to the Po Valley and the foothills of the Alps.

Among many non-Etrascan cities in their domain was a humble Tiber.

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But hack to the Erusann and Creeks. Around 700 R.C. the Erusann began writing their language in letters of the Greek alphabet. The fact is shown in archaeloology. At a certain point, tombs of wealthy Erusanna begin to yield samples of Greek lettering yet conveying a language not Greek. The writing typicilly spores incided on objects of certaine or (more often) metal—a silver cup, an iron sword blade—that were entombed with their conners.

The letter shapes belong to the West Greek style of the Greek alphabet, the style in use among Greeks at the Bay of Nagles. Beyond doubt, those Greeks were the source Probably they copperated gladly in the transmission to the Etruscans. Just as the Greeks of 800 B.C. had adapted Phoenician letters to the writing of Greek, so now did the Etruscans copy Greek letters and begin using them themselves.

One artifact from an Eruscan tomb near Florence, dated to about 660 R.C., tells practically the whole tale. It is a careed-ivery miniature writing tablets, perhaps designed to be worn around the neck, on whose Frame are incised 26 letters of the alphabet, running right to left. They are West Greek letters but probably are meant to represent the Eruscan alphabet; the two at that moment in history looked identical.

The 26 letters omit what would be the 27th Greek letter, omega. This tells us the Etruscans copied the Greek alphabet before Greek omega was invented. (Back in Greece, omega starts showing up in inscriptions around 660

B.C., which squares with archaeological dating of the Etruscan writing tablet). Omgo access would make it into the Etruscan alphabet in fact, five of the original 20 Greek-derived letters would later drop out, as representing wounds unused in Etruscan speech. The Etruscan alphabet would be finalized [about 200 BC.] at 22 letters, including a final, invented letter.

Today we have some 13,000 Etrusean inscriptions, dating down to the end of the lat century B.C., when Etrusean culture finally died out. Preserved mainly on durable material lottone, creamic, metall, the messages include epitaphs, legid documents, prayers and other devotions, and ownership declarations.

Despite the abundant material—a tribute to Etrausan society's sign and illimore—a on an despite on thy housters formulain ensages. Why? Because the language behind the writing remain langley a mystery to us. The Etrausan language was related to perhaps no other tongine on Earth, then or aince, Chille Latin and most other Italian languages of the day. Etrausan did not belong to the Indo-European family nor to say other known family, the late from modern descendant for us to compare it with. In the innerigitions, we can read every word's sound yet often don't know what the words mean. Only 500 nhe been deduced, mody limiting terms, office titles personal names, and words for material objects. If am the pitcher (quant) of Lemassan."

According to modern analysis, upolern Etrussens nounded nothing like forcets, the language whose alphaster it also therevored. Among other differences, Etrussen had no voiced stops no sounds "h," "d," or "g. Etrussen speech had only their amortied counterparts, "p," "t," and "k." Even odderscenning from our vicespoint. Etrussen had no vowed sound o' and no need for the Creek O letter, although the Etrussens helps it in their alphaste for a couple of centuries. At the same time. Etrussen enalpsed three shades of sound "h," about four shade of "s," and a particuler." sound, which were indequately represented in the Creek alphables. Still, the Etrussens were able to fit the Greek letters to their language by reassigning a few letter and the still response to the object of the electrons.

Arriving in 700 B.C., at the threshold of two centuries of Etruscan greatness, the alphabet surely boosted Etruscan achievements, abetting communication, organization, artistic expression, and so on. Like the Greeks before

# ECOXPANTAYENDIAZMAMAP

The legislating of law Roman alghabet can be seen in these crude letters worthold onto a crumine sine containing from the locinity of Roma, crusted 600 eC. The the unset of Da Northold Containing and the seed of Da Northold Roman Roman and the rank of Roman Roman

them, the Etruscans quickly became a literate society, in which the merchant class (among others) could write. Merchants, specifically, traveling and needing friends, might teach the trick to foreigners. What suppened next At least zero different non-Etruscan peoples of Italy began writing with Etruscan letters.

In the archaeolosiv of Rome and vicinity, the oldest inscriptions are pure

Etrusean Greek-derived Etrusean letters, with the Etrusean language lehind them. But at archaeological levels around 620 R.C. something remarkashed happens. In two inscriptions from expents eitsets. Etrusean letters now form words of Latin, the language of Rome, (See illustration above). The command of the control o

Roman writing for the next 350 years, to about 250 B.C., is represented by 650 surviving inscriptions. Unfortunately for us, they include no letter lists to show the whole alphabet. Still, scholars can trace through these years the emerginene of a truly Roman alphabet of 21 letters.

For writing the sounds of Latin (much different from Etruscan), the Romans gradually made changes to the Etruscan letters. They dropped three received letters as unneeded they reassisted the old Greek letters for the "n." h." and "d" outube, and they reassisted a couple of letters we sounds, creating our F and G. Also, between 600 and 250 B.C.; about a third of the Roman letters altered shape, leaving behind their original West Greek forms for a different lock, more familiar to us today.

In the 21 Roman letters of 250 B.C., the five letters absent (per our 26) were J. V. W. Y. and Z. Their sounds were either unknown to ancient Latin or already covered by existing Roman letters.

Equipped with its alphabet and other resources, the Roman Republic G 250 t. C. stood as a new world power. Rome had by then subdued Estrusions. Greeks, and other peoples of Italy, unaffying the penisusal under Roman rule. Now the Romans looked abroad. In coming centuries they would conquer and annon antions around the Mediterranaean-Cardrage, Macedons, and others—and the rugged tribes of Western Europe. To these places, in the wake of Roman Islanous the Roman albabet would for.

On Roman alphabet takes shape in these three columns of letter shapes. The only the Terroran alphabet result of 3.5 serviced Cool letters, including from the Terroran Roman alphabet (Terroran Roman alphabet). The terroran Roman alphabet (Terroran Roman alphabet) and "the "last a model daughed Letter share in the Euroran happage never until One Corola direct heal its usual daughed Letter share in the Donean alphabet (The Euroran had no mark)" on the corola daughed the "best daughed for the "share and in speech 13.1 Statement shale no market for a nor or dan daughed before "bid. Calculated market in the Species of the recognition of the share of th

The work Roman alphabet exploid the Grock-Erroson letter shapes alphabet pring for Erroson letters unneed for Latin, Over time Roman uriting sathed at left to right life early staye and larm either usual, and many of the letter shapes marphed to form mer familiar today. Aromat \$20 KC the Roman we created the "\(^2\) sound to form one of bath Romans fit to some coverage for showing the contract of the Roman fit to some coverage for showing the result of the Roman fit to some coverage for showing the Roman fit to some coverage for showing the Roman fit to some coverage for showing the Roman fit to some results for the result of the letter row, Roman G was inverted at marker 70 regulation or "letter that the Eurosoft sometime for the Roman fit is the showing are down describtions for "letter that the growth amender" for Roman for "letter that the growth amender showing the Roman fit is the showing that the Roman fit is the showing that the Roman fit is the Roman f

ETRUSCAN ALPHABET OF 650 B.C.		ROMAN ALPHABET OF 550 B.C.		ROMAN ALPHABET OF 250 B.C.	
A	¥	Α		A	
8	[unused]		·b-		
>	specialized "k" (1)		"k" (t)		
d	[unused]	q	-d-	9	
1		4	· ·		
1	*v*	9	T	F	
I	7	I	** (t)	6	-6"
8	"h"	8	"h"	8	
0	"th"	_	_		_
	7		Υ.		
x	specialized "k" (2)	1 1	"le" (2)	K	
1	T	4	1"	L	
7	-m-	199	"m"		
1	*n*	w	'n	~	
⊞ .	[unused]	-		_	_
0	[unused]	0	***	0	
1	P.	1	* P	P	
M	¥	_	_	_	_
q	specialized "k" (3)		"k" (3)	Q	
9	7	9		8	
3 or 5	modified "s"		* (2)	5	
T	Y	T	*t"	T	
Yorv	· · ·		"u"	v	
×	"les"	×	"hs"	×	
	"ph"	_	-	_	_
Y	"leh"	_	_	_	_



Letter C'i hartiguing shape—an incomplete circle, suggesting attraction or advancement—has for many decades been employed in advertising and marketing. The Coca-Cola logo of 1886 (thoum here, slightly different from the modern design) imitates a person's elegant signature, thus conveying quality and trustworthiness. To some, the two simous capital C's suggest images of an outstretched arm and a mile (although there is no evidence that was the funuler's intent).

# C OF TROUBLES

ritics have chafed at CS inconstancy. As used in English, the letter has sounds that are too diverse. Not always pronounced as "k," it turns into the sound "s" before E, I, or Y, according to an ironclad rule of our spelling. Thus we have hard C and soft C. The discrepancy appears all over the printed page and in many individual words, like "discrepancy."

Elsewhere, C joins with H to signify a new sound (say "cheeve") or not (say "chorus"). C also has a fondness for the sound "sk", which it occasionally takes in partnership with E or I (ocean, glacie) or with H in postmedieval word borrowings from French, such as "champagne," "chic," and "machine" (a word originating in ancient

Greek, bequeathed to French via Latin, but appearing in English not until the 1500s). As a fifth possibility, C may be silent: muscle, indict.

To have more than one sound is in itself no sin for a letter in English. Our wosels run long and short, with extra shades of pronunciation besides. Our comsonant letters, more confined in interpretation, include a few that carry two or so main sounds, for instance, G (green glant) or X (Everos). The letter 5 pushes the envelope with three frequent sounds (hits, his, sure), however, as a mitigating factor, all three are shillbanes, phonetically skin.

C's problem is that its three main sounds are so unlike each other-the stop "k," the sibilant "s," and the affricate "ch," formed with letter H-as to seem arbitrary: What exactly is this letter about? Making matters worse for C is the notorious turf war, with letters K and O laving claim to what is supposedly C's principal sound. K has contested C in dictionary spellings like "disk" versus "disc" and British "kerb" versus American "curb," also in deliberate, name-brand misspellings like "Kool-Aid." Sometimes K even has to rescue C, as in the change from "traffic" to "trafficking," where C would otherwise go soft before "-ine." O proves itself as good a worker as C, for instance in the homonyms "queue" and "cue" or in the English-language title of Islam's holy book, which since the 1700s has evolved from "Coran" to "Koran" to the now-favored "Ou'ran." The wasteful overlap of C, K, and Q dates back to the ancient Greco-Roman world, as explained below.

In an alphabet that is otherwise understaffed, needing a few more letters, C's position looks embarrassing. You get the impression of a difficult personality, left over from prior management, occupying a big-title job of patchy duttes, jealously on guard against her collegues. Sure, the still looks great, especially when the wears serifs, and in some of her work you glimpse glories of actient Rome. in words like "caustion" "fiscal" and "concord." But does that justify her salary? Letter C ranks around 13th in frequency of use in English-language print, appearing more often than half the other letters, including K and Q, yet only in the soft "ch" sound does C contribute anything unique to spoken English. In all its other sounds, C is redundant with other letters.

No wonder that purists have taken aim at C. Spelling reformers through the ages have wished to reduce C's role in English or even erase it from the alphabet. Comparison has been made with spellings in German, Swedish, and other northern European tongues, which greatly fivor plain Kover C. In German, C is reserved for letter combinations—CH, pronounced gutturally in Nakit (night) or as "k" in Wolst (wax), and SCH, pronounced as "h" in words like schutars' [black—and for non-German terms like "CD-ROM" or "Enrico Caruso" For most "k" sounds, German uses spellings like Kontakt, Korn, Raskinon, and, of course, Kapital, all of which could be English words, too.

As early as 1531, changes of this kind were being urged in England by schole John Hart in an extent testice, If Degening of the Unreasonable Writing of Our Inglish Toung During an era when English worde pronunciations were actually shifting and when spelling was not yet strictly uniform, Hart sought to make spellings more reliable phonetically. Although his specific suggestions would wind up mostly in history's wastebasker, his general criticisms, such as that spellings of his day often used too many letters for the sounds, did influence subscener generations of dictionary writing.

To clean up the mess of C, K, and Q, Hart said, elevate K: Keep symbol C only to mean sound "ch" (thus spelling "latch" as "latc") but elsewhere replace C with K or S and replace Q with K. "So should we need no q or c in the sound of k"

Other thinkers have simply complained. John Baret (or Barrett) was a pioneering English lexicographer whose 1580 masterpiece, a revision of a prior work, bore the memorable tile An Alwanie, or Quadnuple Dictionarie Containing Foure Sundie: Tinques: Namelie, English, Latine, Greeke, and French, Neulie Euriched with leafatie of Winder, Phruses, Provenk, and Divers Lighteneo Obsemutions of Gammar. (An alwarie is a bechive or any partitioned conainer.) Of all his verbal enthusiasm, Baret could spare little for C:
"This letter troubleth me worst of all, and maketh me wonder how it got this third place of honour... If C were a proper leter, then art and reason would it is hould have his proper sound, and ever to keep the same uniformally in speaking, not wavering the Protest or Chamadoin." Since it functions only by trespassing on the sounds of K and S (Baret concludes), the C is "no letter at all."

Ditto from Ben Jonson. The English playwright-poet-scholar, best recalled for his stage comedy (blopne (1606), word a hand-book titled The English Gossmar, published posthumously in 1640. In an otherwise innocent section that introduces the individual "letters and their powers," Jonson indulges himself against C: "A letter which our fore-fathers might very well have spar'd in our rongue. But since it hand bottuned place, both in our writing and language, we are not now to quarrell orthographic or custome, but to note the powers." Mee-owl

Another in the fray was Benjamin Franklin, whose boundless imagination embraced science, mechanical invention, journalism, and nation building. In 1768 the 62-year-old Franklin wrote a proposal for spelling reform. The essence was to duscard letters C, J, W, and Y and reasign their values to other letters and to new symbols (including similar-looking symbols for sounds "chi" and "j" imsofar a those two sounds are entarled; also, voweds would be shown more phonetically. Living in London at the time, Franklin sent his proposal to a young female friend there, Polly Stevenson. She replied in a letter, written in experimental Franklinsee and incidentally revealing her high-toned accent, that she could "si men in knavimienss" in the schemess."

The letter C's struggle with identity and commitment stems from an unstable childhood. We turn, for insight on these formative years, to C's favorite sibling, G. No two letters of the alphabet are closer than C and G, fraternal twins in shape and sound. Settle your tongue and make the sound "K," which shoves air along the rear roof of your mouth (the velum, or soft palate). Leave your tongue in place but this time start from your vocal conds: "g." Thus C (or K) is the unvoiced velar stop; G is the voiced velar stop. The kinship can be heard in the word "scorn." which would be pronounced much the same if 'spelled' 'sgorn." (Another example: On your next memo to your boss, try writing across the top "As we disgust.")

G is our key to understanding C's psychology. The two letters grew up inseparable, in tumultuous households. Today G shares some of C's symptoms, turning soft itself before E, I, or Y.

Back in 1000 R.C., the third letter of the Phoenician alphabet was the G letter. It came after B and before D. It was called gined (with a hard "g" sound, as in "girl"). The opening sound of the name was the letter's sound, too, as always in the Phoenician alphabet. The good had been inherited from a Near Eastern alphabetic tradition stretching back to 2000 R.C. No letter like C yet existed. For sound "k", the Phoenician had two letters, differing slightly in pronunciation, the ancestors of our K and Q. For "y" sounds, they had several forms of S.

When the Greeks copied and adapted the Phoenician letters, around 8 on a.c., they kept gimed at number 3, with sound "g." but altered the name to make it more Greek: gamma. Today gamma lives on as the third letter of the modern Greek alphabet. Simillark, in modern Hebrew, the third letter is the G, called gimel.

The ancient Greek alphabet began with letters equivalent to A, B, G, D, E. Farther down the row came letters equivalent to K, O, and S. Still no letter C. Complications arose after Greek merchants brought their writing to the western shores of central Italy during the 7008 B.C. There the Greeks' trade partners were the powerful Etruscans, who would eventually copy the Greek alphabet for their own writing.

The Etruscans spoke a language very unlike Greek—indeed, in most European tongues then or since. Among other peculiarities, Etruscan evidently had no sound "g." The Etruscan speech sound nearest to "g." was the unvoiced counterpart, "k." Therefore, gamma, the third letter of the Greek alphabet, would be a letter the Etruscans didn't particularly need.

Extant Erruscan letter lists from the 600s R.C. show that the Erruscan Bad duritifly copied gamen in place, to be their letter number 3. Other inscriptions clearly show the letter being used to mean the sound "k." What the Erruscans had done was to change the letter's agreed—on sound, from "ye" to "k." Fair enough. However, letters K and Q also appear regularly in Erruscan inscriptions to mean "k."

Why did the Etruscans need three separate letters to show the "k" sound? Apparently there were small differences of pronunciation. Etruscan writing used the gamma letter frequently. It was always sounded as "k," never "s,"

Meanwhile, the letter acquired a standardized shape. Three or four different shapes show up in early Euroau nviting, reflecting various styles of early Greek gamma. The form that soon predominated was a stubby crescent, copied from the crescent gamma favored at certain Greek cities of Italy and Sicily. This Etruscan rescent, meaning the sound "K," mask the beginning of our C.

The Etruscans dropped the irrelevant name <code>gamma</code>, instead calling the letter something like "kay" (Their K they called something like "ka,") If asked to spell out the letter name pronounced as "kay," an ancient Etruscan would probably have replied "C-E," that is, the letter itself, plus long E. Today, over 2s centuries later.

that spelling, but not the pronunciation, supplies our own name for the letter: "ce" or "cee,"

Around 600 a.c. Erruscan letters started being written by Latin speakers in the region of the village of Rome. Latin being a language totally unlike Erruscan, the Romans must have had a low opinion of the Erruscan arrangement for velar stops: three letters for "k" and none for "g." The Romans eventually concorted their own G letter (which is our G today), and they sim-

11; CCc;

(x) Phoenician sizuel from an inscription of the 800s B.C. The letter's name, which scholars previously translated as "camel," is now thought to have meant a hunter's "throwing stick," and indeed the shape resembles a boomerang. The letter took the hard "g" sound, signaled by the name. (2) Early Greek gamma, from an inscription of around 685 8.C. The letter imitated Phoenician gittel in shape, sound, and number-3 alphabetic place. This particular letter faces left in rightto-left writing. Early Greek writing could run in either direction. (3) A different-shape gamma, from a left-to-right inscription from the Greek city of Corinth, around 675 B.C. The crescent gamma was used also by Greek settlers on Italy's Bay of Naples who traded with the Etruscans and would help to inspire the Etruscan alphabet. The Greek letter still meant the hard "q" sound. (4) Etruscan C of the 500s B.C. Although copied in shape from the Greek crescent gamma, the Etruscan letter took the sound "k." (5) Classical Roman C from a marble-carved inscription of the late 1st century B.C. This appealing shape with its serifi (finishing strokes) became the model for our familiar "roman" print C today. (6) A penned C in the late-Roman and earlymedieval handwriting style known as uncial clearly imitates the inscriptional shape. This example comes from a Christian Latin prayer book of the 400s A.D. (7) The semi-uncial pen style, emerging in Italy and France by A.D. 500, gave many of the letters a new look, much later finalized in lowercase print shapes. This letter is from a Latin manuscript written probably in France in the coos

plified the Etruscan "k" letters by heavily favoring C in their spelling. Q became restricted to one particular use. K was virtually ignored, although kept in the Roman alphabet.

The Roman Empire, from the mid-1st century a.c. onward, saw letter CS heyday. This was the ubiquitous C of classical Latin, enshrined in names like Cicero, Caesar, Seneca, the Colosseum, the god Cupid. Latin writing, like Etruscan, used only hard C. Sounds of "". were written with S. Thus the Latin word for storeroom, cella, was pronounced "kella." The name Cicero was really "Kick-ero." Caesar was "Kye-sar"—incidentally the origin of the German imperial tide, kaiser.

The emergence of a soft C was a linguistic sea change (pardon the pun) of the later Roman Empire. Modern scholars have traced how the Latin C gradually became slurred in certain uses, as spoken by everyday people of Roman Europe: Before an E, I, or Y-which are "front vowels," pushing the tongue forwardthe C began to be pronounced "ch." The Latin word processio (advance, procession) was pronounced as "pro-kess-io" in 100 B.C. but by A.D. 400 had turned to "pro-chess-io." After Rome's fall in around A.D. 500, the slurred C became part of the Romance languages (Italian, French, Spanish, Portuguese, Romanian, to name the main ones) which arose from dying Latin. In that era, pronunciations were changing faster than old Latin spellings, bound by tradition. Therefore, the letter C entered the Middle Ages with two normal pronunciations: "k" and "ch." In modern Italian, soft C is still "ch." In other Romance tongues, the sound gradually decayed to "s."

Soft C entered medieval English from French. The Norman invasion of England in A.D. 1066 fortibly imported Norman French vocabulary and spelling rules, which mixed with Old English to create the rich compound known as Middle English, starting around 1150. Among many other effects, Middle English

spellings became riddled with soft C's. A medieval French word like procession, pronounced as "pro-sess-i-un," would become the source of a modern word in English as well as in French.

The pattern is still apparent. Today the vast majority of our oft C words—like "cellar," "citizen," "reconcile," "grace"—entered the English language from Norman French, having come previously from Latin. Words that were formed more recently, like "bivce!" or "cybernetics," usually follow the older rules.

Our variable C can require fancy footwork in spelling. Reference has been made here already to formations like "picnicking," where K is added to keep the second C hard. Conversely, soft C must hold on to its E, as in the change from "trace" to "trace-able," where modern spelling rules would otherwise want the E out. Which is why we have a movable feast but a peaceable kinedom.

The solid and steadfast nature of letter D
is captured in this illustration from a children's book, published in Paris in 1844.

The book's title translates as Wonderful Stories—Tales from every land, collected and arranged by P. Christian.

#### DEPENDABLE D



own 40 centuries or so, across many languages, this letter has stood loyally at place number 4 in the al-

Constancy and plainness are its virtues. Long before the birth of English, the D already stood for "door"

Like B and G, D represents a voiced stop. To say "d," you place your tongue tip at the roof of your mouth, just behind the teeth, and push off, sounding from your vocal cords. Try it again with no vocal cords, and you'll say "t:" Thus T is the "unvoiced" counterpart of D.

The "stop" of a voiced or unvoiced stop refers to your nasal airway. You close your nose from the inside each time you say "d" (or "t," "b," "p," "g," or "k"). Yet not one person in 10,000 could be aware of doing this, unless they happen to have read about it.

That we pronounce such sounds automatically, blind to the mechanics, is part of the miracle of how our brains learn language while we are babies. In the company of family and caregivers who systematically produce certain speech sounds—often exaggeratedly when speaking to a baby—the child by about five months is learning to recognize these and is preparing to imitate them; the process involves a subconscious level of brain-mouth coordination, so the child won't forever have to think about each sound each time. The child learns to imitate perfectly the sounds he hears (certain pronunciations, like "shoe" versus "soo," may take till age four or five), but she is restricted in this certainty to those language sounds around the cradle. The sounds of Japanese, for example, are not those of Hand, destire an overlink destire at overlink.

Your first year or two of life represent your golden chance to become bilingual, while your brain is malleable that way. Given the environment, you could grow up learning Hindi and Japanese, no problem—to say nothing of Spanish and English, relatively similar to each other, which is the most usual North American bilingual pairing. After about age two, if you learn a new language, you will probably fail to imitate perfectly those sounds you are not used to: Your brain is by then shutting down that department. You will speak the new tongue probably in a foreign accent, however slight. While it is true that certain German or Durch speakers can learn perfect English in high school, this is because the sounds they heard in the cradle are close enough to English to narrow the gap. (Yet still, some German speakers have thick accents in English, including trouble with "we' and "thi.")

The sounds of D, B, and G are learned early in English. Among the most usual talk sounds from a seven-month-old in an English-language environment are "ba," "da," "ga," "kla," "ma," and "pa," of which the first three begin with a voiced stop. So it may be hard for us to imagine a language that's missing voiced stops. Yet such tongues exist—for instance, Mandarin, Chinese. In Mandarin, the closest sounds to "b," "d," and "g," are the unvoiced counterparts, "p," "t," and "k." The name of China's capticle; nowadays covenettonally transitiented as Beiging, is really pronounced more like "Peijink." A Mandarin speaker learning English may pronounce "dog" as something like "cot." (Yet blim-gually raised Chinese Americans have no trouble: Their brains mastered both languages' sounds in bab/whood.)

Modern scholar believe that the ancient Erruscans of Italy, bearers of the alphabet after about 700 n.c., had no wiced stops. Erruscan babies dain't say "ba;" "da;" "ga"—or, if they did once, they quickly forgot how, because no nearby adults were using those sounds. Instead, the babies said "pa," "au," "kas "The Erruscan substitution of "k" for "g," specifically, has relevance for the birth of our letter C.

But back to D. In the Phoenician alphabet of 1000 B.C., the second, third, and fourth letters were the three voiced stops: sounds "b," "g," and "d" in that order, sensibly grouped together. The D letter, at place number 4, was named daifer or deleth (door): as always in the Phoenician system, he sound of the letter was also the opening sound of the letter's name. Today the Hebrew D leter, at number 4, is sill called dafer, understood as meaning "door,"

The Phoenician letter looked like a blunt triangle lying on one side:  $\mathcal{O}_1$  a shape not particularly suggesting a door. In fact, of all Phoenician letter shapes, dade is the most disappointing as a picture. Those accomplished people couldn't draw a better door?

A halfway explanation may exist. A few of the earliest alphabetical inscriptions, from Serabit el-Khadem in Sinai (perhaps 1750 B.C.), include a striking-looking letter that is a picture of a



A fish shape, possibly a primitive form of letter D, stands out among picture letters carrod into a rock face at Sendis el-Khadem in Sinai, dating perhaps from 1750 & C. The message in this early alphabetic writing eludes us. But see, next to the fash it all, four letters running downward that 19ed the word baalax, "lady" (as explained back on page 31).

fish. Some experts interpret the fish as a primitive D letter, in which case it could have been named dag (Semitic for "fish"), thus fitting the ancient requirement of first sound of name equals sound of letter. Seven hundred years later, that the fish picture should be by then reduced and sylized to the Phoenician sideways triangle seems reasonable, even likely. So the Phoenician dalet shape could theoretically be the remnant of the earlier fish letter. Yet the Phoenician letter's documented name was "door," not "fish." How the substitution might have occurred, in the Near East around 1600 B.C., is a question tentatively answered in Chapter N, pages 238–45.

When the Greeks adapted the Phoenician letters sometime prior to 800 B.C., they ushered dalet right into their alphabet, at spot number 4, to mean sound "d." The Greeks made only two small changes. They adjusted the letter's foreign name to be more



Two ancient Greek styles of delta.

Greek in form: delta (a name that at that moment meant nothing in Greek aside from denoting the new letter). And they straight-ened up the letter's shape somewhat. Extant Greek inscriptions show two alternative shapes for early delta. One was a half-moon outline that would be the source for our modern D. The other was an isosceles triangle, which would later become the prevalent Greek delta shape, in the writing suple of the influential ancient city of Athens. Modern Greek's capital delta is an isosceles triangle.

In time, the ancient Greek word delat took on a second meaning a straingle or something traingle shaped, whether in geometry, carpentry, land survey, or other pursuits. By the mid-400a a.c. the Greeks were using this word to describe northern Egypt's region of fertile alluvium, formed by the Nile River's outlets diverging toward the Mediterranean Sea. On a modern map, the Nile Delta appears as a solid triangle, tip pointing southward. The ancient Greeks, with no aerial photography, must have named it from the ground. Passing what is now Cairoo on their way up the Nile, Greek mercenary soldiers and other visitors could look back from some vartage point (the top of a pyramid?) and sea a vast triangle up of green farmland, famining north to the horizon, contrasted with the desert alongside. They called it the delat. Took the word with the desert alongside. They called it the delat.

#### D IS FOR DUTY

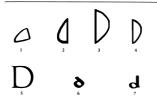
The useful, inoffensive D bears at least one unhappy association. During the American Givil War (86s to 86s), the Union Amy customarily punished an attempted deserter by branding a letter D on the man's check, hip, or buttock. Regulations specified the letter be one and a half inches tall. This giving punishment supplies a pivoral episode in Simon Winchester's biography. The Profiter and the Madman (1997), about leciographe William Minor.

Like other Greek letter names, "delta" has gone into modern technical wocabulary. In math, "delta" represents the increment of change in a series. In science, more true to its Greek etymology, "delta" means something triangular (deltoid muscles) or something fourth in sequence.

To attonomers, the delta is the fourth star of any constellation, in decreasing order of power, after the alpha, beta, and gamma stars. There is delta of Orloin, delta of Cepheus, etc. Delta of Venus, a 1950s pornographic fiction collection by French-American author Anais Nin, deverly combines in is title the artronomical phraing with the meaning of delta as a triangle.

Delta is a surprisingly popular brand name among many kinds of products: Delta Fances, Delta Machinery, Delta Dental Plans. Delta Airliners refers to the Gulf of Mexico region, but in Maine or Nevada you might find Delta Landscaping or Delta Tax Sertive, with no geographical reference. The Greek name sounds like quality off you overlook the potential meaning of "fourth best in town"), and it offers a visual opportunity to business owners—namely, to signpost a triangle, with its message of expert work-marship and fair dealing. The Washington State—based Delta Society, which promotes the use of pess and therapy animals for





(1) Phonicisis delic, be "low" low S. The future road at place number, and not sound of the  $A^{*}$  are sown D all lows. (a) Early Green blacks place a given by the impringing from a Green ranking base at the Rig of Flogish in Italy, around 27 at 12. Some people of Haaly would be green of the Right for Italy around 27 at 12. Some people of Haaly would be green for the contraction of the Green field would be depleted of the Thomason (a) Green Rich in the left is under the unity of create Green depleted of the Thomason and from these right from an Lip flows as the religion (in the Right in Italy) would be required from the right in Italy would be required to the religion (in Italy) would be required from the Right in Italy would be required to a religion (in Italy) and the Right in Italy would be required to a green state of the Right in Italy would be recommended to the Ri

human health, chose its name for the sake of a triangle logo, to symbolize the linking of pets, pet owners, and medical people.

Delta may owe some of its current popularity to the Delta Force, a U.S. Army antiterrorist commando unit, formed in 1977 and glamorized in computer games and movies. Delta Force's

#### THE PHONETIC ALPHABET

Our name for D represents the most common form of English-language letter name, which is the letter itself followed by a long-E sound, usually spelled as -ec. American English has nine 'ec' names: B, C, D, G, R, T, V, Z, and (with no initial sound) E. British and Commonwealth usage recognizes eight, the Z beine called 'ec's.

Such letter names, and others, are noncinoully difficult to distinguish in south letter names, and others, are noncinoully difficult to distinguish in sound just like "ee" or "bee," or an "iff" like "es," thus jumbling information such as map coordinates. To counter the problems, European and American military and transportation authorities that by the spease developed various phonetic alphabets for radio and telephone conversation, in which letter means were replaced by words that began with the letter in questions." Challe" means C. "Dog" meant D. and so on. Significantly, this modern expedient recreates an aspect of the earliest Broune Age alphabet the use of finiliar words to help represent the letters, by virtue of the words' opening sounds. See pages 18.4-2-56.

Here are the two official phonetic alphabets that have been used in American military and civil-aviation radio talk. The second version replaced the first as being easier for foreign-language speakers.

The current version, containing our old friends alpha and delta, saw use during the Vietnam War (1964 to 1975) and has become associated with that monstrous tragedy through TV news clips, written memoirs. and Hollywood

official title is First Special Forces Operational Detachment, Delta which means just that it was designated originally as unit number 4 in a larger Special Forces structure. But today the name "Delta," by association, takes on possible meanings of "toughest" or "elite."

When the Etruscans copied the Greek alphabet for their own use, around 700 B.C., they preserved (at first) all the Greek letters in order, even those unneeded for Etruscan speech, like beta and delta.

DURING WORLD WAR II AND AFTERMATH		From 1956 to Today	
Abel	November	Alpha	November
Baker	Oscar	Bravo	Oscar
Charlie	Papa	Charlie	Papa
Dog	Queen	Delta	Quebec
Easy	Roger	Echo	Romeo
Fox	Sugar	Foxtrot	Sierra
George	Tare	Golf	Tango
Howe	Uncle	Hotel	Uniform
Item	Victor	India	Victor
Jig	William	Juliet	Whiskey
King	X-ray	Kilo	X-ray
Love	Yoke	Lima	Yankee
Mike	Zebra	Mike	Zulu

films. The communistr-partian Victorong, the main adversaries of American troops, were known by the initials VC and the call words "Victor Charlie," thus prompting their loveless American nickansme, "Charlie," and in radio communication regarding combat casualise, U.S. soldiers wounded in action (WIA) were reported through the inappropriately beautiful and evocative words "Whiskey India Alpha."

Greeks in Italy were using a half-moon-shape defu, which now became the Eruscan alphabet's letter mulner 4, Soon the Eruscan alphabet had been copied by a neighboring Italian people, the Romans (600 a.C.). The Romans spoke Latin, a language that used worked worse and needed letters for them. The half-moon D, at place number 4, became a Roman letter, later passing into alphabets of Western Europe after the Roman Empiric's fall (6.0s, 500).

Our letter name "dee" comes from ancient Rome. Unlike the Greeks, the Romans used minity one-syllable letter names that simply demonstrated the sounds: D was called da or de (pronounced "day"). Bequeathed from Lain to the Romance languages, the letter's name in medieval French was "day"—it remains on in modern French—and as "day" was imported to England with the Norman invasion of A.D. 1066. The great English wovel shift of the 1400s and 1500s, affecting many English wood promunciations, turned the name into "dee". Still, from dalet to "dee," with a small shift in shape, down 4,000 years, across stor seven language, is change modest enough, Steedy at the like, that's our faithful D.



#### ROMAN EMPIRE, ROMAN LETTERS

The Empire in A.D. 113



Under he superor Traject, the Roman Engine reschold its greatest extent. From underen Stodhard to he first extenses of he Niles it covered about 2.5 million square milles including the Moditerrosom Sto. Arona the majors, the Roman adophest was used primarily for writing the Lettin language, spoken by Roman authorities consystems and by the produce in Romanizin effects the Stoght. Could Indiane Frances, and extensially Ducin (underen Romania), as well as in India Today people in those countries upon Romane francisco, the rivide from Latin.

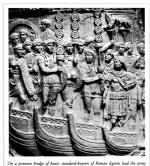
The Roman alphabet bloosomed to maturity in the heyday of the Roman Empire. Under efficient, benevolent emperors like Trajan (ruled A.D. 98 to 117) and Hadrian (A.D. 117 to 138). Rome securely held a vast domain and thrived on the taxes of subject peopless the alphabet, meanwhile, had progressed to a stage where we today can easily recognize it as our own. Empire and alphabet are embodied totether in the remarkable monument of Trainias' Column, com-

# SENATVSPOPVIVSQVEROMANVS IMPCAESARI DIVI NERVAE FNERVAE TRAIANOAVG GERM-DACICOFONTIF MAXIMOTRIBPOTAVII IMPTICOS VIPP ADDECLARANDYMOVANTAEALTITVOINIS MONSTILOCVITANS SIBVSSITEGESTVS

The mast found of latering in the need in office until to be found in this models of more information and to JLL grid when serious display damaged, on the hope probated of Flipsias Column in Branco The column in box movines, much plant and mill produced in Flipsias Column in Branco The column in behavior of Princis From (monthespiles) to haliding quous but the empower adult to Rome's business center. The column in behavior proceedings disconstructed the legisted of personal central question of the Light and Hill that Triguin's engineers had to dig usung to create his former. The interpretation of the Light and personal central question of the Light and personal has foliated behavior had been designed to personal the families of the mill produced to the families of the contract in the con

pleted in A.D. 113 and still standing in the middle of the city of Rome: The column displays marble-carved scenes of Roman military conquest along with, on a plaque at its base, the perfected pression of Roman carved eapitals. (See the two photographs here.)

Aside from Latin, for which it had been created, the Roman alphabet of the empire was sometimes used to write certain Celtic and Germanic tongues on the western frontier. But most of the European languages destined for Roman letters had not yet been born. Romance languages like French and Portuguese were as yet nothing



until acrus die Danade Riter inse territory of the untille Datams, in a motificarrant some from Rigial Column. The column, complered in a Li yz and dedicant with in finance inceription, flamere a spiral hand of shows 13 serons, narraing the emperor's enquesed of Datas (the Timological States) of posterior Romania) in A.D. 32 to 30 ch. Afternand repopulated with Roman cellere, Datas would remain a Romania colonia of States and States and States and States and Romania colonia of Romania colonia of States Europe, a mistratated soliday in the country in more, Romania, and in Romano classque, avritors with Romania clarers. Romania can il Romano classque, avritors with Romania clarers.

more than recional dialects of snoken Latin, Old Enclish was centuries in the future, prefigured only in a Germanic dialect of certain wild tribes living at that time in north Germany.

From 21 letters, the Roman alphabet had by A.D. 100 grown to 23: Two new letters were welcomed officially, after perhaps 200 years of being used informally in Roman writing. Like most newcomer letters anywhere, the two were placed at the end of the letter row- our Y and Z.

They were horrowed from the Athenian Greek alphabet of the day, where they were, respectively, the 20th and 6th letters in order: the yowel unsilon and consonant zeta. Unsilon, written in Greek as Y. represented a parrowed "u" sound: "cw" or "ih." Zeta, written as Z. took sound "z" (having slurred from the "dz" of Iron Age Greek). The Romans wanted the two letters for help specifically in transliteratinė Greek words into Roman writinė.

Why did the Romans care? Because for centuries, even while Greece had been subdued by Roman armies, Greek culture and technology had been potent forces in Roman life. Greek loan words had been moving into Latin as the necessary vocabulary for whole fields of bnowledge-medicine, architecture, theater, astronomy, and others—that the Greeks were masters of and the Romans as vet were not. Greek terms like symphonia (symphony) or zoidiakos (zodiac) involved language sounds that Latin lacked, and lacked letters for. To avoid the tedious expedient of switching to Greek to write problem words. Latin needed those two Greek letters at least, Latin had its own letter U. but Greek unsilon's sound fell somewhere between Latin's U and L and apparently the Latin U was felt inadeduate for showing the Greek sound.

The new Roman Y and Z were never written for native Latin words, apparently, only for Greek and other foreign noises. The Roman Y was always a vowel. Our English use of Y as a consonant (ves), as well as a vowel (flv), is unusual, Although French and Span-

#### A B C D E F G H I K L M N O P Q R S T V X Y Z

The 23 Roman letters of the empire, as curved in stane. In various ink styles, they took modified shapes, but based on these. There was no minuscule or lowercase form in Roman writing; every letter was a capital.

ish occasionally use Y as a consonant, too, most modern languages see Y foremost as a vowel.

The sounds of Roman letters cenerally were similar, not identi-

The sounds of Roman letters generally were similar, not identical, to our own; specifics are detailed in chapters on the relevant letters. As for the letters' shapes, they speak to us, down 2,000 years: They could simply be our own letters.

The reason for this is that Roman letters were preserved in stone. A thousand years after Rom's fall, early European printers would copy the benatiful, revered shapes in designing capital letter for the finet "roman" typefaces ("roman" for being first designed in Renaissance Rome, and "roman" as opposed to type shapes by Gutenberg and others that imitated German medieval handwriting). Two printers associated with early roman type were Nicolas Jenson, around 1470, and Aldus Manutius, around 1495, both based in Italy. Thie work, in turn, yould serve as models for typefaces like Garamond, Bodoni, and Times New Roman, which have come to define newspaper and book print.

The classic look of uncient Roman lettering emerged in curved in seriptions of the late Internuty B.C. and reached finest form in the era of the Trajan Inscription. The designs involved two shiding techniques by Roman stonemasons. First, certain parts of each letter were subtly widened—one leg of the A. two opposite sections of the O—in contrast to others. This gave the shape a sense of perspective and graceful solidity. The second technique was to add small finishing at trobes (we call them serif) at the letters' and points Clear ex-

amples include letters E. G. H. S. and T. Serifs first appear in Greek letter carvings, the earliest known example may be the "King Alexander" inscription of 334 B.C., shown here on page 69. The Romans copied the idea and enlarged it, to good effect.

Of course, most Roman letters of A.D. 100 would have been written in ink, not stone. But as in any study of the ancient world. we are frustrated by the near-total disappearance of Roman ink writing, normally penned onto perishable material: papyrus or animal skin (of which the most refined versions were vellum and parchment). Only the sands of Egypt and a few other protective

### OCULI SOVE

Inh letters from a Latin manuscript in the "routic" handwriting stule, probably from the 500s A.D. (a late example). Done with much rotation of a broad-nib pen, the careful shapes resemble carved letters, with scrifs and widened sections.

environments have yielded Roman ink samples on papyrus, parchment, or wood—or (at the Roman city of Pompeii, buried in volcanic ash in August A.D. 70) Roman messages painted onto building walls: see page 313.

Two distinctive handwriting styles of the empire are known today as old Roman cursive and rustic capitals. The first was a script for minor documents and everyday use, evidently penned quickly (cursive means "runniné") and often nearly illegible as compared with Traian's Inscription. More formal and painstaking was the misleadingly named rustic, used for important documents and literary manuscripts.

Sometime around a.D. 300, three emerged a distinctive new Latin handwriting dysle, which we today call uncide. [The name is explained on pages 1,2–2,3, in a section on medical writing). Arriving in the late afternoon of the Roman Empire, uncid writing would survive Rome fall land disintegration (500), to be the first important pen style of the Niddle Ages. Less imitative of earved letters and more adapted to wrift that legality enramathys, uncids would point the way to subsequent ink styles of the Niddle Ages—styles appropriate to a new order, including new languages of Europe.



The crooked E. Days before the beleaguered Enron Corporation filed for bankruptcy and laid off 4.500 workers in De-

cember 2001, a man car-

ried belonging from the energy giant's Houton logo. The tradebehind the fire-foot-tall, stailuse-steel Euron logo. The trademarked, tilted E was meant to symbolize ascent and power (particularly electricity, Euron's main product). But when the biggest-ever American bankrupcy was followed by accusations of supendous fraud, the unducky logo became a media symbol for corporate greed and disboneny, and acquired the nickname "the crooked E." This headquarters sculpture has since been removed for auction; a similar E. from another Euron building, fetched \$4.0.00 at auction in Specucher 2002.

A handsome E in the medieval ink style known as late unical looks right at home amid modern typeface (opposite page).

### CAN'T SPELL ENGLISH WITHOUT E

asily the most-often-used letter in English-language print. E out-distances runners-up T. A. and I by ratios of 10 to 7.7, to 7.28, and to 7.04, respectively, according to one analysis. That's quite a long lead. E's fairly pepper our printed pages-just look here and there-and one reason is in the many shades of yowel sounds that E can represent; about 15 sounds in all. For example, E takes a different sound in each of the following words: be, mere, red, alert, sadden, new, sew, latte, and (with a partner vowel) great, heart, and height. In an alphabet that is understaffed with vowel letters, E does the job of two, at least. As our most visible worker, it enjoys a certain symbolic value: Where letter A might embody the whole alphabet, E could be said to represent our English vowels or even English itself.

Add to this dominance a more recent coup by E, or rather e, in symbolizing the digital communication revolution. In 1983, little e, for "electronic," went into the new word "e-mail"—and today we can't live without it. Well beyond company and product names like eBy (online auctions), eToys (toy sles), eDecor (home furnishings), eTravel (travel information), and e Café, we think nothing of seeing coinages like e-commerce, e-solutions, eStuff, e-tailing, and (following the dot-com bust) e-bankruptcy. English will never be the same.

Also au courant is "E" meaning "ecstasy," as in methylenedioxymethamphetamine, the euphoria-and-hallucination-inducing drug of choice for misguided young people at raves.

E is Everywhere. Unfortunately, amid is honors, E could be said to cheat a bit. Unlike other letters in our spelling. E regularly gets to show up and say nothing. It has an important silent role, which adds greatly to its number of appearances. By a uniquely English spelling rule (carefully raught to us in grade school), an E at the end of a word, following a consonant preceded by a wowel, is always a mute. Ei, judy is to signal that the other wowl is long. Thus: "face" wersus "fac," "wine" wersus "win." Only in foreign word borrowings (cefi) is the rule ignored.

How did English acquire a silent E? Some words from Old English, like "name," carry an E that was always there and was a cone time pronounced. However, more often a silent final E has been added to the word in the last three hundred sers. It is a corrention, a device, that English lexicographers and teachers agreed on by the late 160s, to help relieve what was then the chaos of English spelling. People began writing and teaching according to the new rule. Thus the traditional English word usf, with a long-1 sound, received an added E to become "wife," with no change in pronunciation. The choice of E for silent duty, versus another letter, was prompted probably by the example of "name" and similar words.

The final-E rule is a clever way by which we compensate for our Roman alphaber's shortcoming in vowel letters. Many languages that use a Roman alphaber (English certainly) would have been grateful for a couple more letters, to help distinguish long wowels from short. The Greek alphabet, for example, includes two letters that mean O, one long and one short, and two that mean E, long and short. In English, we have had to get there by developing a coded E.

One early prophet of final-E spelling was the Elizabethan grammarian and teacher Richard Mulcaster. Although reputed to have been the model for the farcical pedant Holofernes in Shakespeare's comedy Love's Labour's Lost (circa 1500), Mulcaster himself seems to cast a warmer glow. An advocate of liberal education and a true fan of the English language, he was headmaster of London's Merchant Taylors' School, where his students included the future poet Edmund Spenser and playwright Thomas Kyd. In an era when some thinkers wanted to solve English spelling inconsistencies through complete overhaul, Mulcaster argued to keep traditional spellings but tinker to make them work. Accordingly, in 1582, he published a combination grammar book, teacher's manual, and 8,000-word spelling dictionary, titled The First Part of the Elementarie which entreateth chefelie of the right writing of our English tung. (An "elementary" was a primer.) In the book, discussing the letters individually, Mulcaster praises E for its many sounds, qualifying it for multitasking in an improved English spelling: "a letter of marvelous use in the writing of our tung. And therefore it seemeth to be recommended unto us speciallie above any other letter." One hundred years after his time, many of Mulcaster's spelling suggestions would be adopted, including the use of a final E

Linguists classify vowels by the tongue position involved in their pronunciation. E's main sounds in English, the long E of "beet" and the short E of "bet," belong to the category of "front vowels," so named because they push the tongue forward. Other front vowels include our long-A sound, as in "day"-a sound we might also find sometimes in E, typically in words borrowed from continental languages, for example, "cafe" or "ballet" (from French) or "latte" (from Italian).

This "cafe" E is the normal long E of continental Europe. When a Spaniard, Dutchman, or any other continental European thinks of long E, he hears the sound "ay" (as in "cafe"). Our English long E-"ee"-would to continental European ears be the sound of long I. Insofar as the names of Roman alphabet vowels are generally the naked sound of the long letter, the name "ee" belongs to the letter I, by the continental standard. E's name in modern French, German, and others is "av," (Short E, meanwhile, has no such identity problems but is pronounced much the same in English and continental tongues.)

The continental practice here is the proper and traditional one, reaching back to the ancient European languages of Greek, Erruscan, and Latin. English is the odd man out, due to the Great Vowel Shift, a vast and mysterious change in the English pronunciation of long A, E, I, O, and U, and OW, culminating in the 1500s. Prior to the Shift. Middle English was pronouncing long E as "av."

Like all of our vowel letters, E began its life as a letter showing a consonant sound, in the Near Eastern alphabets of the second millennium B.C. This original or ancestral E was called he (pronounced "hev"), and it carried the "h" sound exemplified in the opening of its name.

As mentioned in prior chapters, every letter name of the early alphabet was a common noun in the users' Semitic language: house, hand, water, and so on. Every letter's shape was a rough picture of the object named. What the he meant-and this is no kidding—was "Hey!" The letter's name indicated a shout of surprise. And the letter's shape illustrated it strikingly.

The earliest surviving example of a written he appears in the oldest known alphabetic writing, carved into limestone in central Egypt in about 1800 n.C. The letter shape is a human stick figure, half crouching, perhaps leaping upward, arms raised at the elbows. The person is probably meant to be shouting in surprise, in an ancient Semidic expression that by coincidence resembles our "Hey!"

The vivid stick person he also shows up in the next-oldest extant batch of alphabetic writing, in rock carvings at west-central



The letter he, carved into a limestone rock face at Wadi el-Hol in central Egypt, part of a (yet wadiciphened) message left by a Semitti-language speaker, around 1800 h.C. The stick figure's posture is probably one of surprise. Denoting an "b" sound, the he is one of two stick figure among the early letter shapes.

Sinai, from perhaps 1750 B.C. In the plaque sketched on page 31 a he can be seen among the letter shapes, fifth from the bottom in the far right-hand column.

But evidently the stick figure proved too exacting for convenient writing as a letter, and the shape became reduced to an abstract form by the next era of the alphabet manuely, the Phoenician alphabet of 1000 Rc. The Phoenician ke shows up as the fifth etter in alphabetical order, the future place of our E. The Phoenician he's shape, no longer human, looks like, well, a backward E, with a short tail: \$\frac{1}{2}\$ The letter still took the consonant sound "th."

The biggest change came when the Greeks copied and adjusted the Phoenician letters for the writing of Greek, around 800 n.c. Choosing a handful of Phoenician letters whose consonantial sounds were unneeded for Greek, the Greeks reassigned these to be voweds. One letter affected was he, which now became the Greek E wowel. No doubt the choice of he for E was prompted by the Phoenician letter name, pronounced "hop" or "hap." The vowel sound in "hey" was the sound the Greeks wanted for their long E.

At first, the Greek letter stood for both long and short E. Later the letter would be specialized as short E only, and another Greek letter, named eta, would be developed for long E. At some point in the process, the former he letter received the Greek name e psilon for ensilon), "naked E."

During the time while there was still only one Greek E letter, the Greek alphabet reached the shoes of western Italy, where it was copied by the Erruscans (around 700 n.c.). The Greek E letter now became an Erruscan letter. The Erruscans kept it as letter number 5, gave it the name 4, and recognized it as meaning the sounds "xy" (long) and "ch" (short). These aspects of E remain absolutely the same today among continental European Janaguages.

E passed to the Romans in about 600 B.C., when Etruscan let-

ters were copied for writing Latin. Here the letter shape gradually reached a form exactly like our capital E. This E, called by the name sp, was bequeathed to newer European languages after the fall of Rome (A.D. 500). Meanwhile, in the ink handwriting of late antiquity and the early Middle Ages, there emerged a second shape for E, condensed for easy penmanship: 0. This shape would much later, around 1465, inspire early European printers in designing their lowercase e.

Like X and a couple of other letters, E serves an important role as a symbol in muth and science. The E of Albert Einstein's famous equation  $E = mc^2$  is an abbreviation for "energy," while m is the "mass" of the object in question and  $\epsilon$  (for Latin celotitas, "speed") means the speed of light in a vacuum. In mathematics, lowercase denotes a numerical constant, equal to about 2.7828, with 16 the study of logarithms, the  $\epsilon$  commemorates the great Swiss mathematician Leonhard Euler, who first derived the number; in 1748.

The "ee" of English long E is one of three vowel sounds identified by researcher as typically the earliest sounds of infant speech the world over. The other two are "sh" and "oo." As the three are universal to human speech, any infant will hear them in the cradle, and because they are easy to articulate—voweh in general requiring no tricky use of the tongue or throat—a baby might here find her first success in minitaring adult speech. Basically, the child just pushes the simple sound through her open throat, perhaps a early as age two months. From that stage, the typically will advance to floating a consonant in front of the vowel. formine "coo" or "yee" or something similar.

This phenomenon of the first sounds did not escape the notice of people in prescientific eras. In Elizabethan England, there existed a belief that female babies, particularly, were apt to begin speaking with the sound "ee"—in deference to their first forerunner. Five.

Here is the order of the 26 letters in their frequency of use in printed English, according to three different surveys:

Dictionary of Phrase and Fable by Ebenezer C. Brewer, 1870		World Book Encyclopedia, 2002
E	E	E
T	T	T
A	A	A
I	0	О
S	N	N
0	I	R
N	S	I
Н	R	S
R	H	H
D	L	D
L	D	L
U	C	U
C	U	С
M	P	M
F	F	F
W	M	G
Y	w	Y
P	Y	P
G	В	w
В	G	В
v	V	v
K	K	K
J	Q	X
Q	X	J
X	J	Q
7.	Z.	Z.



(O) The Somitis Generals, from an inception at Wall of it bills in control Egyp, from about 100 s.C. As the index probag as your fifter the highest invention, the learn were settle leaves made at picture, similar to the Egyptian investigation from which they had been exploit. The ke liturative a period hand of pinning, which is the nature Somitis trange criticalizing based like the residence of the "it meand, the opening mould of an arms. (2) by 1000 s.C. in the "Phoreistion deplicate the hear highest had unfailed as an advanced hope, length performed for phoreistic and photon the been risky that similar to an advanced hope, length quite for preference in the control of th

No apologies are offered in the trademark of F Company Design, a Minneapolis graphic design firm, memorably named for its founder and owner, John R. Ealker. The F, in austere Futura typedica, seems to mean

business, while the background dot could embody the whole science of graphic design.

#### F IS FOR—FORGET IT

orever saddled with an obscenity, the letter F can seem vulgar or comical just by itself, Adding to F's tacky aura is our second f-word,

"failure," which in the late 19th century suggested F, not E, as a pupil's flunking grade, below D. Of the alphabet's other letters, only P can even approach the stigma of being F.

At one time, F was handled carefully in the media—a loaded symbol, a walking punch line. The title of the comedy-western TV series F-Thosp seemed positively daring in 1965, which was the same year that Neil Simon's stage comedy The Odd Couple opened on Broadway. The Odd Couple juxtaposes the fastidious Felix Ungar with the tougher, slobbier Oscar Madison as reluctant Manhattan apartment mates; the playwright's choice of Felix's name is rewarded in a scene where Oscar complains angrily about an innocent housekeeping note that Felix has left him. "I told you a hundred times," Oscar snarth, "I can't stand little notes on my pillow. "We're all out of corn flakes, EU."... It took me three hours to figure out that EU, was Felix Ungaz."

Such coy treatment seems quaint nowadays, when clothing companies named Fuct and f.c.u.k. (French Connection, U.K.) push the envelope for the youth market's attention in ways that many of us find demoralizing.

The F-word's ugliness and impact benefit from its sizzilup, frienting sound. The F belongs to a category of consonants called frientives, which involve breath expelled through some constriction of the mouth. Fricatives in English include the letter V, the sound "th," and, by some reckonings, a subcategory known as shilants—the histing sounds of S, Z, and "sh."

Exemplified in the very name "fricative" (from Latin Jiñan, fro rub," related to the word "friction"), the F sound results from air pushed through the barrier of the front teeth and lower lip. If you start saying a continuous F, then switch to a vibration of your lip and vocal corts, you'll be saying V. Thus F, with no vocal cords, is the unvoiced labio-dental fricative ("labio-dental" referring to the lip and teeth), while V is twoiced counterpart.

In running air over the lower lip, F and V resemble another letter, not a fricative: W. The kinship can be heard, for example, in the imperfect English of certain native speakers of German or Slavic tongues, who may substitute the sound "f" or "v" for the (to them) more difficult "w," saying "fich" for "which" or "faht" for "what."

Fs crude sound attracted comment long before English was born. The ancient Roman statesman Cicero called it the "unsweetest" (insuavissima) sound in Latin, in a book on oratory written in 55 B.C. The Roman grammarian Quintilian, in his book on oratory, around a.d. 90, demeaned F as "harsh and unpleasant . . . a sound scarcely human or even vocal." The letter's hiss seemed to him to belong outside the organs of speech.

Ironically, this sound that has been F's ball and chain isn't even the sound that F started out with, historically. Back in about 700 B.C., the symbol F denoted not "f" but the kindred sound "w." Only later was F reassigned to become the unlucky fricative. Here is how it happened:

F is our alphabet's sixth letter. In the Phoenician alphabet of ooo a.c., the sixth letter was called usur. The name meant "peg" in the Phoenician's Semitic tongue, and the written letter looked like a Y-shaped peg or bracket: Y. (Through a different line of descent, the usur would also supply our letter Y.) Waw took the "w" sound, demonstrated in the name's opening sound. As for the sound "t," the Phoenicians didn't use it in their language and so had no letter for it.

When the Greeks copied and adapted the Phoenician alphabet in about 800 a.C., they kept the letter at place number 6 and sound "w", but for a new look they shaped the pronged head down to the side, as  $\exists$  or  $\exists$  or  $\exists$  or  $\exists$ . (Like other early Greek letter shapes, this one could project leftward for right-to-left writing or rightward for left-to-night writing.)

Why change the shape? The Greeks seem to have been influenced partly by the shape of their alphabet's preceding letter, opsilon:  $\widehat{\beta}$ . They wanted the two to look similar, apparently. Since opision was the ancestor of our E, the resemblance in shape between E and E continues to this day.

The Greek F-shape letter eventually had two names. At first called usus (pronounced "wow," slightly different from the Phoenician name), it was by about 500 B.C. also known as digamma, "double gamma." Gamma being the Greek G letter with a shape like 1, the name digamma referred to the shape of two

gammas, piggybacked. By any name, the letter still denoted the sound "w." Although Greek speech did have a sound somewhat similar to "f," that was covered by another letter, called phi.

After the Greek alphabet reached the shores of Italy in the 700s B.C., the was or digamma was copied into the Etruscan alphabet to be letter number 6, symbolizing "w." Here it enjoyed a long and happy life, serving as the Etruscan W for seven centuries, until Etruscan culture and language finally evaporated amid the dominance of Rome.

Greek waw-digamma, meanwhile, fared less well at home. Eventually it dropped out of the Greek alphabet as being inessential for writing that language. Ancient Greek simply didn't need a "w" letter the way that Etruscan did or English would, and this fact gradually came out in the wash. Along with san and goppa, two other superfluous Phoenician-derived Greek letters, digamma would not be included in the classical Athenian alphabet of 400 B.C. nor in the modern Greek alphabet, descendant of the Athenian.

Thus far historically, we've seen the F-shape letter to mean the sound "w." The switch from "w" to "f" came with the Romans, who copied the Etruscan alphabet shortly before 600 B.C. The Romans made adjustments on letter number 6: They assigned the "w" sound to their letter U as a secondary job, and, thus enabled, they gave the F-shape letter a brand-new soundthe strong Latin fricative not adequately represented among the Etruscan letters, the sound "f"

So finally, F for "f." Roman F thrived in its new job, symbolizing a Latin sound that was frequent and fundamental (the disdain of intellectuals like Cicero and Quintilian notwithstanding). F occurred often at the start of Latin words; most of the respectable F-words in a modern English dictionary derive from Latin: family, faun, feast, fracture, future, and so on.

With its dash of harshness, Roman F even served the poets,

## FETYZIA

Easily and from right as life, these Brancan learn—instant on a silver cop from a small or the Pranents, a will see set of Branc, from done by 8.1 — explice and two of Westins, pronounced perhaps as "Web-sado-ia." The initial F shape denotes the small "is," not "f." and the V layer in a U. Modern volchoin recognize the rest word as an Erroscon made men and the "is also personice entiting with the meaning it." I believe to West. Inriginging, he same West serves to correspond to a later-brane Roman name, spelled West and meaning "Mess and meaning the serves of the

One phrase of the Roman poet Ennius (about 200 B.C.), describing woodsmen chopping trees, is recalled for its zeasy onomatopoeia: fuzzimus fungitur (meaning: the ash tree is felled and sectioned). And Vergil, in his epic poem, the Anneid (about 20 R.C.) imagining a mythic embodiment of violence or evil, calls it Furer impins, "godless Frenzy"—the F sound contributing to a sense of menzes.

After Rome's fall (around A.D. 500), its alphabet lived on; the letters were fit to the writing of other European tongues, including Old English (about 600). There being as yet no letter V in the European Roman alphabet, the Old English F did double duty, representing the "\text{T"} of "fallow" and the "\text{V"} of "love"—a word originally written as lufu and pronounced probably as "luv-ush."

Meanwhile, the Romance languages were writing the sound "v" with the letter U, a practice that would eventually give rise to a variant U, the letter V. Starting in the late Middle Ages, V would oust F from many English word spellings where the sound was "v." Still, the Old English F-for-"v." survives in a few of our words today, notably "of."

Like Latin, Old English was fond of "f" as a word's opening sound (example: fond). This English quality mirrors an ancient development of the Germanic branch of the Indo-European language family, in which an initial "p" sound in prehistoric Indo-European became an "f" in primitive English. The development can be glimpsed by comparing certain native English words with corresponding words in other old Indo-European tongues, distantly related to English. Our word "father," for example, connects back to ancient words including Greek pater, Latin pater (with its descendants, such as Spanish padre and French père), and the Sanskrit root pitar .. Our "fire" corresponds to Greek pur and Czech pýř. And our "foot" represents the Indo-European root pod- or ped-, which steps out in the vocabularies of Greek (root pod-). Latin (root ped-), Sanskrit (padas, "foot"), Lithuanian (pėdà, "footstep"), and other Indo-European languages.

With F we reach our first example, in alphabetical order, of a minority letter name. As mentioned in the D chapter, the most common formula for English names of consonants is: The letter's sound plus long E equals the name. Eight consonants (or seven, if you call Z "zed") have "-ee" names of this kind, the others being B. C, D, G, P, T, and V. The F is the earliest sign of the alphabet's Opposition Party, wherein consonants are named with a prefixed vowel sound, usually short E. The others here are L, M, N, R, S, and X.

Why an Opposition Party? Why don't F, L, M, and the rest stick to the main pattern, with names like fee, lee, and mee? The first thing to say is that all these letter names entered medieval English from Old French after the Norman Conquest of England in A.D. 1066. Old French, in its turn, had received its letter names mostly from late Latin. So our focus shifts back to the Roman Empire, around A.D. 300. What was up then with the names of F, L. M. N. R. S. and X?

Significantly, the X aside, these letters all represent continuous

sounds. You can make one long noise of F, L, M, N, R, or S until your breath runs out. Two other ancient Roman consonants were continuous, H and Z, and H we can add to the abovementioned letters. But Z stands apart because Roman Z had a special, imported Greek name, zeta. (As for our modern alphabet's other continuous consonants, namely J. V. W. and Y. the first three were unknown to the ancient Romans and their Y was purely a vowel, not a consonant.)

From scant references in writings of ancient grammarians, it looks as if F, H, L, M, N, R, and S all underwent a name change during the Roman Empire, at least in common parlance. Each received in its name an initial vowel sound, where none had existed before. The purpose, apparently, was to create a buffer that would demonstrate more clearly the letter's sound in its name. For instance, Roman F probably started out, around 600 B.C., being called something like fe ("fay"). But by the early centuries A.D. the name had changed, through a vowel prefix, to something like effe ("ef-fay")-retained today as the modern Spanish name for F. The new Latin name better exemplified the "f" sound, for clarity among the letter names.

Ditto for other letters of the group. The benefit can be heard in L's change from "lay" to "ellay," in R's change from "ray" to "erray," and in the clearer contrast between "emmay" and "ennay" (M and N). Such names, delivered from late Latin to early French, passed to medieval English, with slight modifications through the centuries.

X, the mayerick here, apparently never changed it name: It was called eks from the start, as inherited by the Romans from the Etruscans, around 600 B.C. Perhaps its name served as a model for the eventual renaming of F and its fellows.

For obvious reasons, F has never been a favorite of Englishlanguage product marketing. Today its use belongs mainly to a spirit of youth or rules-breaking, as in F-Group (software) and F Club (University of Florida sports fans). One place where F has found steady work is in science and technology: F can be Fahrenheit, fluorine, farad or faraday (measurement units of electricity, named for 10th century British physicist Michael Faraday), or frequency (as in FM, "frequency modulation," a method of radio broadcasting).

The lurid-sounding "f-number" of photography simply involves the ratio between a camera's focal point and its lens diameter (f for "focus"). Hence the "f stops" of a camera's iris adjustment. Hence, too, the reassuring name of Nikon's popular series-F camera, introduced in 1959.

But probably F's most familiar job has been in designating "fighter" aircraft-as opposed to "B" bombers or "C" cargo planes-of English-speaking armed forces, a usage that goes back to World War I and to Britain's Bristol F.2 Fighter and Sopwith F1 Camel, biplanes mounted with machine guns. Today the F's proliferate overhead, in the names of such daunting American supersonic war birds as the F-16 Fighting Falcon, the F-18 Hornet, the F-22 Raptor, and the F-117 "Stealth" Nighthawk. Is it embarrassing to fly around in an "F"? Most fighter pilots would probably say they don't give a darn.



(1) Ancient Phoenician waw, the "peg," of 1000 B.C. Number 6 in the Phoenician alphabet, this letter took the "w" sound, exemplified in the start of its name. (2) A Greek wau, later also known as digamma, from a leftward-running inscription of about 700 B.C. The Greeks had altered the letter's shape but had kept it at alphabetic place number 6, with the sound "u:" (3) The Etruscan letter-this one from the Wetus inscription of about 650 B.C., shown on page 125-imitated the Greek version in shape, alphabetic placement, and "w" sound. Like the Greek, the Estruscan letter could face either left or right, depending on the direction of the text. (4) This Roman F from a carved inscription of the 2005 B.C. shows several changes. The shape, now more even, faces rightward, for normalized Latin left-to-right writing, and the tips of the horizontal bars have small serifs (finishing strokes), ballmarks of mature Roman lettering. But the most important change: Roman F took the sound "f," not "u." (5) Roman F from the marble-carved Trajan Inscription, A.D. 113. This handsome shape would become the model for our modern capital F. particularly in "roman" typefaces. Aspects of the letter's design, such as its serifs and its setting of the crossbar slightly above the midpoint, remain essential to roman print F's today. (6) An inked F in the late-Roman uncial pen style, from a Latin manuscript of Italy, mid-400s A.D. The shape recalls the old carved capital, yet, with its reduced top bar, it also starts to anticipate a modern print lowercase f. (7) The look of our lowercase f emerges in the semi-uncial pen style, this specimen from a Latin manuscript of the soos A.D., from southern Italu Reducing the letter to two quick pen strokes, the semi-uncial shape became part of a medieval handwriting tradition that would later (about 1470) inspire the lowercase type designs of early Eurotreat printers.

Capital G in the medieval ink style known as black letter or Gothic. Flourishing in Northern Europe during the 1200s through 1400s. S.D., this hundwriting reflected the look of spires, pointed arches, and vertical strust in certain church architecture of the day—an architecture likewise known as Gothic. The adsective Gothic orieinally

meant "German" but today has come to include, internationally, a dark kind of teen music, computer fantasy, and personal

grooming.

## GORGE-OUS G



lory. Grandeur. Glamour. Ghoul. Slag. The visceral G sound seems to reach for extremes. How fitting that it gongs twice in "gargan-

tuan" but stays silent in "gnat." Equally at home with the good and the ugly, G thinks big, has gusto.

With G, we revisit the honest category of voiced stops, B and D are the two other English voiced stops, and the trio's general phonetics have been mentioned in the chapters on B and D. The hard "g" sound of G is the voiced velar stop—"voiced" designating the vocal cords and "velar" the roof of the mouth. Hard "g" belongs also to the loose category called "gustturals," or thorat sounds.

Our English adjective "guttural" comes via medieval French from an ancient Latin noun guttur, "throat." Two related roots in Latin and Greek, ours- and saw-, have bequeathed to us words like "gorge," "regunzitate," "gargle," and "gargovle" (a sculpture that typically spouts drainage water from its throat). That such roots should showcase the throaty "g" sound-along with another throaty letter. R-seems beyond coincidence: Thousands of years before the alphabet came along, prehistoric Indo-European tongues were forming "throat" words partly around the appropriate sound "g."

Or compare with this primordial layer the modern appeal of Kellogg's-cereal character Tony the Tiger and his full-throated description of Frosted Flakes as "G-r-r-eat!" The G and R go together as naturally as, well, sugar and cornflakes,

G is a more complex letter than its straightforward fellows B and D. Its hearty "g" sound may cloak a frail and inconsistent nature. G actually has five possible pronunciations, including a silent one, all demonstrated in the Prohibition-esque phrase "mighty rough garage gin."

The soft G of "gin," with the same sound as our L is G's alternative personality. By a rule of English spelling, G takes this pronunciation on most (not all) occasions when it falls before the vowels E, I, or Y. In flipping between hard and soft sounds, G of course resembles one other English letter: C. The C turns to "s" before E. L. or Y.

This odd mannerism, unique to G and C, is a legacy of their teenage years spent in medieval France. Soft G and soft C came to English from Old French, brought with French vocabulary and spelling rules after the Norman Conquest of England in A.D. 1066.

Relevant to this historical background, the soft G of modern English occurs mainly in words derived from medieval French: gentry, pageant, giant, and engine, among hundreds of examples. It is also found in Latin or Greek borrowings as traditionally anglicized: genius, gymnasium. But G may stay hard where the English word comes from a different language, including Old English, whence our "get," "give," "giri," and "gelding." Other hard-G source languages include biblical Hebrew (Gideon, Gethsemane), Japanese (ginkgo tree), and Malay (gecko lizard).

In a few French words borrowed by English since the Middle Ages, the soft G retains a distinctly French pronunciation, sounding more like "shj" than "j." Thus: corsage, garage, rouge, and luge.

Letters G and C share more than just a tendency to go soft. In an alphabet where certain letters are informally paired—including B and P, M and N, and S and Z—the closest two are G and C. They look similar, they sound similar the kinship may be heard, for example, in the word "socid" closer to 'gold" than "cold"); and their histories are deeply entwined . . . although not in the healthiest way.

Oversimplifying somewhat, we can say that C stole G's idenity; G was the alphabet's original letter number 3, centuries before C existed. Then, a change: G disappeared and C became letter number 3—similar to G yet lacking its voice. Where had the real G gone? Not dead, but banished from the developing alphabet, G wandered four and a half centuries in limbo, until, it services being at last missed and appreciated, it was recalled to the letter row, to spot number 7 (oussing another letter). There G abides todgy, staring with who-knows-what emotions at the back of C, four places sheed.

G goes back to the earliest Semitic alphabets, as exemplified by the Phoenician laphabet of 1000 n.C. The Phoenician letters 2, 3, and 4 were the three voiced stops, the equivalents of our B, G, and D. The G letter was called ginel, the "throwing stick," the hard "g" of ginel being also the letter's sound. Today ginel remains the third letter of the Hebrew alphabet.

In the Greek alphabet, copied from the Phoenician in about

800 B.C., gimel became the Greek gamma, still a hard "g," still at place number 3. Today gamma remains the modern Greek third letter.

The misfortunes of this early G began around 700 B.C., when the Etruscans of Italy borrowed the Greek letters for their own use. As detailed in the letter C chapter, the Etruscans, with no voiced stops in their language (and thus with no need of a G letter), reassigned the third letter from the sound "g" to "k" terminating gamma and creating C in its place.

It was this G-less Etruscan alphabet that the Romans inherited for the writing of Latin in around 600 B.C. Unlike Etruscan, Latin was a tongue of the Indo-European family. Related to Greek and (distantly) to modern English, Latin included the familiar Indo-European sound "g." But Latin spoken "g" had no letter to represent it in the received alphabet.

Without doubt, the early Romans had contact with Greek traders and Greek writing in Italy, and they must have known that such a thing as a G letter existed, at place number 3 in the Greek alphabet. For several centuries the Romans used their letter C to mean either the sound "k" or the sound "g," according to context. This expedient would survive in one corner of later Latin writing: in the use of C to abbreviate the Roman male given name Gaius (not "Caius") and the use of Cn to abbreviate the name Gnaeus. Still, the double use of C was evidently felt to be inadequate, and a change was coming.

Among the letters bequeathed from the Greeks to the Etruscans to the Romans, the letter at place number 7 was proving superfluous for writing Latin. With the shape I, this letter denoted the sound "z," a sound employed by Greek and Etruscan yet not. as it happened, by Latin. The Greek letter was called zeta (pronounced "zayta") and the Etruscan one probably ze ("zay"). Through a dramatic detour encompassing several centuries, zeta would crop up eventually as our letter Z-though not, obviously, as our letter number 7.

Landing in the Roman alphabet of 600 B.C., Etruscan ze denoted a sound that the Romans couldn't even articulate. If the Romans used it at all, it was as a second letter for the sound "s" (their principal "s" letter being S). Thus the Roman seventh letter languished, a mere duplicate S.

Sometime around 250 n.C., Roman minds got the idea to connect this dud letter with the needed sound that was missing from the Roman alphabet, the sound "je." Roman tradition would ascribe the breakthrough to one Spurius Carvilius Ruga, a freed slave who supposedly opened Rome's first school of grammar. Letter number 7 was reasigned to mean the sound "g" and was renamed as something like ge ("gsy"). The name ge would be the direct ancestor of our moderer Righlsh name for Righls to

The Romans quickly gave ge a new look. The inconvenient I shape (too similar to the I of the letter I) was changed, through stages, to a modified C shape: G. So G was born.

Presumably the new letter shape's resemblance to C was deliberate on the Romans' part. Some kind of attraction was at work: Since C was close in sound to G and had doubled as the G letter in



<sup>(</sup>s) Derived from the Greek letter van, the Erroans letter namber 2 derend the sound 2."
(s) Derived from the sever into the resolvers from an alphabe or a few area attailly not and the first sound from the sever into the resolvers from an alphabe or a most direct from writing Latin. (s) Armond 190 AC, the Romane remaigned the letter to a most direct from the represented, 2" and the figure (s) By other and the represented, 2" and the figure (s) By other an area direction from the figure (s) By other and the severe (s) and the resolvers (s) and the resolvers (s) and the resolvers (s) and (s) are severed to the resolvers (s) and (s) are severed to the resolvers (s) and (s) are resolvers (s) are resolvers (s) and (s) are resolvers (s) and (s) are resolvers (s) are resolvers (s) and (s) are resolvers (s) are resolvers (s) and (s) are resolvers (s) are resolvers (s) are resolvers (s) are resolvers (s) and (s) are resolvers (s)

the old days, the Romans evidently felt that their newly created G would be easier to learn and remember if it resembled C in shape.

For centuries Roman G remained a simple letter. The classical Latin of Cicero or Seneca knew only a hard G, regardless of what letter followed. In the Latin word genum (jewel), G was pronounced as in our word "gum." Ditto for the poet whose family name was Vergilius (Wer-gill-ius) but whom we call Vergil or Vingil (Mr-jil). Ditto, too, for such recognizable Latin words as religing generating, generating, and veriginum: All had hard G. Classical Latin carried no letter for it; our letter J is postmedieval. Today the existence of soft G in countless English words derived from Latin—religion, generous, general, vestige—is due mainly to the intervention of medieval French is due mainly to the intervention of medieval French.

Soft G arose in the spoken Latin of the later Roman Empire. Starting around a.D. 150. G began to be slurred when it fell before E, I, or Y (which are "front wowels," sharing certain aspects of pronunciation). Modern scholars trace this slurring partly through analysis of variant manuscript spellings. A Latin word like gemma apparently passed through a stage of being spoken as "dyenma" before reaching "jennua" by the time of the empire's collapse (around a.D. 50o).

Thereafter, soft G was borne along as regional Latin dialects evolved into early versions of the medieval Romance languages. Today soft G is a prominent Romance feature: it is still pronounced as "j" in modern Italian, while in French and Portuguese it has slurred further, to something like "shj;" and in Spanish to a gutturul "h."

Our English soft G is a medieval French import, a legacy of the Norman invasion of England in 1066, as mentioned. It so happens that our "j" pronunciation, similar to Italian's, preserves the sound of medieval French soft G more faithfully than does the modern French pronunciation (as in "rouge"). The medieval French "i" settled down permanently in Middle English, around 1300, whereas in France it continued slurring, to "shi."

By bad luck, the vicissitudes of soft G have affected the letter's very name. Our name for G goes back to the Latin name pronounced as "gay" and spelled as or; that is, the letter itself plus a long E, with the ancient Latin values for the G and E. This name "gay" would have slurred to "jay" by the era of early French, and so "jay," arriving in England with the Norman Conquest, became the name in Middle English, as well as in French.

"Jay" would have offered no confusion with the letter J, for two reasons: (1) The I did not begin to appear systematically in English writing until the 1600s, and (2) I's early name in English was "iye."

From medieval "jay," the path forks toward both the modern English and French names for G. In France, the "i" sound softened to "shj," producing the modern French name, "shjay," still spelled as ge. In England, conversely, the "j" sound stayed put but the attached wwel sound changed: Amid the great English vowel shift of the 1400s to 1500s, long E went from "av" to "ee," bringing us to G's modern English name, "jee." The one item of continuity has been the name's spelling; G plus long E, through differing pronunciations, in ancient Latin, medieval French, and modern English (albeit for clarity we might prefer two E's: "gee").

While the modern French name for G is "shiav," the name for I is pronounced "shiee." Thus, in French, "I" for G's name and "G" for I's, a detail that has irked students on both sides who are learning the other tongue.

The irregular GH spelling of "sigh," "night," "tight," "enough," "slough," and others commemorates medieval pronunciations of certain English words, Medieval "night," for example, was probably pronounced as something like "neehkt," comparable with modern German nicht or Scots-dialect nichtas in the classic Lowland phrase, "'Tis a bra' [brave], bricht, moon-licht nicht, ta-nicht." While the GH spelling was fairly accurate for that breathy, guttural sound, such English pronunciations would change by the Middle Ages' end, leaving the GH spelling behind. Today, in words like "tough" versus "light," GH is both inaccurate and inconsistent.

This GH has distressed purists, including the Irish playwright, philosopher, and 1925 Nobel laureate, George Bernard Shaw. Among his many studies, Shaw-probably best remembered today for his 1913 play Promalion (basis for the 1956 musical My Fair Lady), featuring the brilliant phonetics expert Henry Higginswas a lifelong advocate of English spelling reform. On his death in 1050. Shaw left a bequest of prize money for a contest to create an improved alphabet for English spelling: The competition, held in 1958, produced a winning alphabet of 48 new "letters," each symbolizing one sound exactly. During his lifetime, Shaw was fond of demonstrating English spelling inconsistencies by observing that the word "fish" could logically be spelled as ghotithat is, the "gh" of "rough," the "o" of "women," and the "ti" of "nation"

G enjoys a modest 21st-century prominence in brand names and international relations, often as an abbreviation for "global" or "group." The title "G-7," for "group of seven," denotes those nations with the biggest industrialized economies: Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States. For "G-8"-as in the 2001 Genoa G-8 conference disrupted by mass protests-add Russia.

As used in lowercase, g represents a unit of gravity, a factor in high speeds of spacecraft and supersonic aircraft. A G-suit may be worn by pilots and astronauts to help them withstand multiple 9's.

In "G-man," a term reminiscent of 1930s gangster movies, G stands for "government" and refers to the FBI and similar federal law enforcement agencies. The expression is said to have been coined by real-life Public Enemy Number 1 "Machine Gun" Kelly at his arrest in 1933: "G-men, don't shoot!" Some criminals may be carrying 100 G's (100 grand, \$100,000) when the G-men pick them up.

The G spot—a small region of female sexual sensitivity, distinct from the clitoris and located somewhere along the vagina's front wall—is named for German gynecologist Ernst Grafenberg, who announced its existence in writings of 1950. Since then, generations of husbands and boyfriends have failed to find it.

The G-string of the vaudeville stage was a cunningly skimpy and sometimes spangled ionicolth worn by strippers or dancers, rypically female. While G-strings themselves live on in modern performance and photography, the name's origin has been forgotten. The G perhaps stood for "genital," but even more tantalizing than that line of thought are the eatliest journalistic references to a "gee-string" or "G-string," which all come from the American Mest, starting in the 1870s, and concern the attree of various male American Indian groups. "Some of the boys wore only 'G-strings' (ss, for some reason, the breech-clout is commonly called on the prairie,") runs a December 1981 Happer's Magazine passage. So maybe the G commenorates some relevant words soundring like "ize" of a Plains Indian Inanualism Indian Inanualism.

Johann Sebastian Bach presumably had other things in mind when, in about 1723, he wrote his "Air on a G String" (actually so named by a later arranger). Part of a larger piece for string quartet, the "Air" includes a violin solo that fits entirely on the G string, the lowest of the violin's four strings.

Since the 19th century, a few thinkers have held the letters' shapes to be subconscious expressions of a collective human mind. According to this (unconvincing) line of thought, the shapes evolved over centuries due to guiding human principles rather than to mere convenience in scribbing. In a far-out 1961



(1) Carroll Reman capital C from the Trigota Interciption, so. 1, 13. This perfected Reman large would become the model for all print against (5). (2) she taked C in the modal Montaline 1916, from a Latin manuscript of the mid-son B.C. United were basically capital shapes adapted a year model, the three capital larges and adapted a year model, the three capital larges and adapted a year model, the three capital larges and adapted a year model, the three capital larges and adapted a year model, and the sound with a state of the charging of the trips when the modern larges and them, show ho shape of The Carrollington minimised of interest in modern larges and perfect the modern larges and them, show ho shape the state of the control of the control

book titled Sign and Design: The Psychogenetic Source of the Alphabet, as a sexual picture code, a "magic chain of procreative symbols destined to safeguard the survival of the race" of humankınd. The shape of A, for example, sticking into the air and sasociated historically with the ox's horns, is a cinch to symbolize the erect male member. The curve of D is the full womb of a pregnant lady. And G turns out to be a most explicit letter, showing the act itself, with a female circle and male crossbar. Watch for it on Seame Street!



### THE ALPHABET IN THE MIDDLE AGES

After the Roman Empire's Collapse, Roman Letters Survived and Evolved, Fitted to New European Languages, Including English



Great, pape from A.D. 500 to 604 and a shaper of the medieval church, receives dictation from the Holy Spirit as a door in this browtiful French consed-incres plactur from the late 800x Contains was remembered for reforming the Roman Catholic mass—whence our term "Gresorian chant"—and the scene shows him composing the mass's new Latin text (a section of which appears on Gregorie isons book page, readable with a magnifuing glass). The three scribes symbolize the church organization that would copy and distribute the master's words throughout Christian Western Europe, Amoné the seene's details, note the writing materials the scribe's ink harn, the none that are not stuills but hallow

Pen and ink. St. Gregory the

tools of curved bone or horn, and the book forms of junctional short stars and quantitative tools of curved bone or horn, and the book forms of junctional short book and lang on edge, series as evenly of pagence or leasters as in ordirer times. (Perchiment was present a considered similed ship, gived junction for some threat treated and electrical particular short per describe the large short both pages of the district of the fresh and and temperature Whilelite Ages, the church layed also the legs of elevation of the Annual hearing—conjugate and preserving works of pages auditors the Verifica and Corners and as of shared futhers—and before to many Roman heteres to neave. North-are Tecconomic towards works of Corners and Conference of the Pacilish.

continued

macedon

HXX X

Clemensquoquehisconekuit inprimostromateitascribens elementis

Τρεκεσισκαιτορτιατκοδοίδου κουσμα Αδχεσιοδιασκοπιασιδοπιμάτη ετλέριε quipers/κλουσικότας συγτογεσικαιτοιά συσκολοιστέλο ποιοδιασκότα τακτικολοίο δεσιοφιασκατικοπος είναι ρεσρέθεται ε κικέλος εκδοτίσος μια το εκτικού ρίσ εδος είνας το κοτοδιασκότα το καιτορίο εδος είνας το κοτοδιασκότα το καιτορίο εδος είναι και το κατοδιασκότα το καιτορίο κατοδιασκότα το καιτορίο κατοδιασκότα το καιτορίο κατοδιασκότα το καιτορίο και το κατοδιασκότα το καιτορίο και το καιτορ

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Slopes of things to come Thin Latin manuscript rayin of body AD, 45 in the words made with the properties of the state of

In the Roman alphabet's long history, uncial handwriting represents the next important stage after the carved capitals of imperial Rome. Derived from a Greek handswiting stagh. Latin uncial arrea orund A.D. 300 shring the late Roman Empire. It was a quick but legible pen style for the gielding surface of parthment, particularly. parchased showed in the new-facilities of forms of the back (Backe of the en after were hand before the writing west in, or shown in the "So. Congrey and the So-Sohoseron, page 1411 United letters as a group bould afferent from an exquired different per partition than, the two older styles of Roman from the modurating the square and "main" equilate. These two entrylls have parties to reductive allogated to shorter or scredit of groups are beather, half the one hard surface. Until was an adaption to more made to be attached and more growfestive work standards.

United because the premier Later look hand of that entition of "emproped to daily" humanism branch it married the empiric collapse, around AD, 5th bring among the Roman cultural elements preserved by the Roman Carbail Charrie, and it remained the foremast Later look hand in the entity Mellel "Ages, retrainfly monophise in the promotest Later look hand in the entity Mellel "Ages, retrainfly monophise in the production of Element Later look hand in the entity Mellel "Ages, retrainfly monophise in the production of Element Later looks and the entity to the entity and only the tree can be found on our product labels, unknowning" mellende tradition. United are functions for the industrial of First-theoreth curves in the Viside State.

The sum "mail" is a shelothy invention of the 1900 extrapolating from a Lain Ferrence by S. Former to these means. In which fall better follows a 1901 Compared with the Tapian Invergion cognition (A)D. 113 shows on page 124, some small letters than that change, and as N O S Or "I think these lands are page 124 as one small letters who that the obase, and as N O S Or "I think these lands are larged as and as the A, D, E = H. Regardless, all maried letters were considered to be the capitals, eduporal cost to exceed performancy for the through 400 and the comparison of the continue permanelly of A there shope 180 are not breaked 400 a. D are an attenuel to exceed better the continue of the state of the 180 are an attenuel to the continuel continuel to a transfer of the 180 are always to the state of the 180 are always th

Other Remarkstrein, with a restic capitals had employed letter degree of size medigic level and the first task had not people affect medigine of medicine and whose relative levels are because that extended of their show or below the whore D.H.K. and I. were their secondary and their secondary and force show or below the whore D.H.K. and I. were for more manyly the accordary and descenders of formal necessary levels between flow or for more and secretary levels of the meaning precision of special architecture of some all necessary levels to be for the secondary and descenders of normal leverance price to be byte E and Q on the measure price, appeals of whether we therefore the best E and Q on the measure price to popular levels to be for the second case modern, two-timed amount of an interconnect letter to being on entrees.

United Latin signal for nearly story year, until the late 800s. It yoursed at least two-firature Latin handwriting styles the uidespread business hand today homes as semiuncial, used for mine documents and useduday urining through the 800s, and the docustive 'artificial united' from colledly, which proced to executing the present found a certain use in municarie becoding and enters opening there. Until and were invasid user both displaced by the highly highle and early personed Carolingian minerals, assumed that Is Fronch Nicel Chemotopie.

continued

The milleration from AD 500 to 5500—the 'middle' ages, bridging the end of outsignity and the third of modern. Empire-sum own Room on sphales through most of its final growth. At the era's outset, the alphabet comprised 23 letters for writing Latin. By 1500, the same alphabet had been filted to about 50 different Westers and Central Engroyan Inaggings; in Section 250 different Westers and Central Engroyan Inaggings; and and the whole endages of European Versiting in the trough and the whole endages of European Versiting in the term could now number 24 or more, according to the troughe being represented and the whole endages of European Versiting in the here recolationized by a prentical printing method invented by Johann Gutenberg in Germany in sound 4450.

One language that began being penned in Roman letters during the early Middle Ages was Old English. By the year 1500. English had been enriched and developed through mixture with medical Pennels, and it stood within a few generations of its finest expression, in the stage plays of William Shakespeare (around 1600) and the King James translation of the Båle (1671).

Such vast developments can be but sketched here. The milestones of the Middle Ages in regard to the alphabet ares

• The collages of the Roman Engine. By the 2000, the authority of the Roman emperor and government was crumbing and invasions of Germanic tother, not only in the provinces but in Italy itself. The empire, oil is traditionally dated to AD. 476, the year in which Roma's last on-peror was deposed by a matiners. We in ways the empire lingered. The city of Roma was not distroyed the title "omperor" continued to be used by rulers at the ensuremental contentration of the countryside. Lattin invarious distortion of the countryside. Lattin invarious distorted results of Roman society level on, particularly in the villa organization of the countryside. Lattin invarious distorted results of Roman for the Rhine River, and Latin supplied the religious and administrative landings of the Roman Cabulot Church Latin virting, in the 3-letter Roman alphabet, was preserved by church-organized education, primaryly the monastic schools (particularly of the Bronelistic morely) and the episthe monastic school (particularly of the Bronelistic morely) and the epistern moral schools (particularly of the Bronelistic morely) and the epistern moral schools (particularly of the Bronelistic morely) and the epistern man alphabet.

copal schools, often urban, which were associated with a bishop (Latin: 
pixopas) and his cathedral and which might admit well-heeled lay students as well as intending clergymen.

- A new map of Europe. The western Empire broke into multiple kingdoms, ruled typically by Germanic newcomers. After 450, most of Roman Britain fell to seaborne invaders from northern Germany Anéles, Saxons, and lutes, who would create on the island a new "Anéleland." Much of Italy was held in the 500s by a Germanic people called Lombards (whence the modern name Lombards, the rection of Milan). And a swathe of territory from the Elbe River to the Pyrenees was won by an aggressive, resourceful tribe called the Franks—whose name lives on in the modern name of France, in the western German city's name Frankfurt ("the Franks' ford" on the river Main), in our noun "franchise" (originally denoting Frankish citizenship rights), in our adjective "frank" (citizens may speak freely), in our yerb "to frank" (to rubber-stamp, usually with postate value), and in the Italian word for postate stamp, francaballa. The postal references commemorate an era when a Frankish nobleman's wax seal or outer signature could ensure an envelope's delivery along the roads. The greatest Frankish king would be Charlemagne, or Charles the Great, reigning from 768 to 814.
- The lists of the Romano language. Modern Europe has five major anguages that device directly from Latin they are, from west to out. Portuguese, Spanish, Ferreck, Italian, and Romanian. (The adjective Romano: coming to English from Old French, refers in this case, of course, to the ancient Romano! By the middle years of the Roman Empire, around AD. 100, certain changes were under way in the common people's applien. Latin, After the empire is callages, the changes secretared along local lines. Western Europe became a patchwork of Latin dialects, many more than five. Of those, a certain few belonging to impract cities like Paris or Castile, were able to apread at the expense of others, through.

centuries of nation building. Today a few minor Roman languages survive alongside the five major ones, such as Catalan in the Barcelona region or Rhaeto-Romance in the southeastern Swiss Alps.

Regarding the mechanics of the Latin-to-Romance transformation, unlife it to any that the changes encompased language structure, pronunciation, and vocabulary, with differences from one Romance tongue to another. Latin's expressive but complex system of noun, adjective, or ever ending (whereby the endings vould change according to the world use in a sentence) became watth simplified the new languages confined word-end changes mainly to verba and Feled more on word order and dedicated preparations. Thus, in the Latin phrase "mother of Cod." mater Dr. the perposition "o" is indicated by the specific form Dr (versus Dras, Dras etc), while modern Italian or Spanish shows the preposition as a wordmarked till Din, marked & Din.

Much of modern Romanes voorbulaep has shifed in prounciation from Latin yet remain recognizably Latin at over. Than the Latin word rota (wheel) has yielded Romanian reata, Italian rasta, Portuguese redazione resta reata, Italian rasta, Portuguese redazione resta reata reata reata rasta Romanian reata rasta Romanian rasta. Portuguese redazione resta dishibatorwania pili feri rotata: The Latin web To deepe, demirie, has become Italian dermire, Romanian dermii, and Portuguese. Spanish and Forench dermii:

The modern Romance language closest to classical Latin in gramme is probably Romancian, while Italian tends to be the closest in written vocabulary. The tongue that has evolved furthest from Latin is French its development due partly to an early introduction of Geremanic phonetics from Frankish invuders and purely to medicular France's dynamic role as a center of commerce and learning, open to outside influences. French is of particular interest as being the single other language most relevant to the history of English.

The earliest stage of French, to about A.D. 1300, is known as Old French. The emergence of Old French as a tongue distinct from Latin is traditionally dated to 842. This misleadingly late and precise date reflects the earliest written document we possess in a language that can be called French, not Latin-in fact, it is our earliest document for any Romance tonoue early Italian and Spanish are not documented until the 900s. The French item records an alliance treaty between two kings of separate Frankish territories (they were brothers, Charles the Bald and Louis the German), Known as the Oath of Strasbourg, after the eastern French city where it was ratified, the treaty is preserved within the Latin writints of a contemporary Frankish historian. The treaty was a public declaration to be understood by both rulers' armies, and so it is bilingual, in French and German (being of great value, too, for German studies). The French portion offers a fascinating glimpse at a language in transition between ancient Latin and modern French. The opening words are: Pro Deo amur et pro christian poblo et nostro commun salvament, d'ist di in aware (For the love of God and for the safety of the Christian people and our community, from this day forth).

Although written in the traditional 23 Roman letters, this landuage is no longer Latin but rather something new, looking at first glance like Spanish. Not only have most of the words changed from their Latin counterparts, but the pronunciation of certain letters themselves has changed. pointing the way to modern pronunciations of French and English. For example, a sound "x," the voiced fricative, which the ancient Romans never knew in Latin speech, is probably the sound being signified in the words salisament and assant Within a few centuries of the Strusbourt Oath, Old French words and pronunciations would be forcibly imported to England (see below), where they would become building blocks of modern English.

 New and important letter thapes. As part of wider educational and administrative reforms, the Frankish kino Charlemaone in about AD, 780 initiated the creation of a new Latin handwriting, to replace various illetible business hands then in use. The new script was to be easy to write and read and would be made standard throughout Charlemann's extensive kingdom; the project was headed by the English cleric Alcuin, master of Charlemaëne's palace school at the Frankish capital of Aachen (now

continued

in western Germany). Probably by selecting and refining one of the better semi-uncial scripts then in existence, Alexin created the new official hand, hnown to modern seloslars as Carolingian minuscule—"Carolingian being an algetic verbaling to Charlemagne and "minuscule" traditionally meaning "maller" or "lessers" The new sorigives as smaller than other business hands, yet more legible, and smaller also than book hands like uncidal or square capitals. It was *lester* insofar as a business hand naturally fell below uncids and other book hands in the hierarchy of scripts.

Of all Charlemagor's civilizing achievements. Carolingian minuscule has arginably been the most permanent, for it has supplied the lowerease there shapes that we use today. Where encola had introduced about seven modified letter shapes and semi-uncial about seven more, the Carolingian script drew on this tradition and perfected it, giving to almost all the letters the distinctive, legible shapes destined for lowerease type.

During the 8co., Chudrungne's new script proved highly successful on its own merits. Economical of space and materials, it was pleasant to write—most of fish letters could be inhed in one continuous pen motion—and to read, with enough diginity to recommend it also as a book hand. Soon it had supplanted uncial as the main Latin book hand of Western Europe. (Our earliest extant book in German, a rhyming translation of the Gospels from around 865, happens to be penned in Carolingian letters.)

Carolingian script fell unids in its turn, for never styles during the Joson and 1000. But Immunitually, it was rediscovered in old manuscripts, during the early 1,000 in Italy and then impired a whole new Italian handwriting style, called the humanist school, which emerged about 50 was before Cutenberg's printing press. In the late 1400, and printers in Italy chose humanist letter shapes as models for the first lowerease type designs of the newly cestad "norma" print.

Thus was Carolingian minuscule resurrected to become the prime book hand (so to speak) of the print era. The old letter shapes are now the daily compresses of our books newspapers and materines A Carolintian. style manuscript page is illustrated and discussed just ahead, on page 156.

 The birth of English. Between about A.D. 450 and 500. Germanic peoples called Angles, Saxons, and Jutes invaded Roman Britain and captured most of the territory south of the Firth of Forth, leaving only some defended enclaves in the mountainous west. The invaders spoke a Germanic language, distantly related to modern Dutch, German, and Danish, amoné other tonéues. Datiné from the moment the Anéles and the others set foot on British soil, their tongue becomes known for historical purposes as Old English. It can be imagined as the "German grandfather" of modern English

Whereas the Germanic Franks who invaded Roman Casul (modern France) in the 500s A.D. became assimilated and adopted the defeated inhabitants' Latin dialect (the future language French), this was not so for the Anólo-Saxons, their newcomer landuage became that of England. One reason for this linguistic takeover was the overwhelming execustion of the Roman British population after defeat. They sailed to Gaul or withdrew into the western uplands now known as Wales, where their Celtic element is today preserved in the traditional Welsh lanéuaée, still the first tonéue spoken in many homes and public places of North Wales

The Anólo-Saxons-or Enólish, as we may now also call themmay have brought along their own alphabet; the runes of old Northern Europe, Not necessarily matical or evil (despite treatment in modern movies and computer games), the runes comprised about 24 letters, keyed to the sounds of Germanic speech and shaped angularly for easy carving into wood (the "scrap paper" of forested Europe). Each letter was a "rune"—a Germanic word interpreted by modern scholars as meaning either "secret" or "scratchines." It is theorized that runic script may have been born from an adaption of the Etruscan alphabet by an Alpine people around 300 B.C. Runes seem to have been used for commerce, cor-

continued

respondence, and occusional magic, much like other ently alphabets for modern study, nearly a limit evirting has been to that us to be probability of wood. Alous 5,000 interiptions survive, mainly memorial-stone areaingand the study of the study of the study of the study of the foun hourt AD, 100 to 1600. The majority some from Sweden, 10,000 from Norway alous 700 from Demunds and the rost mainly from Germany the British black and Belond. Anglo-Saom Gradun has contributed in

Alongide the Anglo-Saxon runie alphabet—and soon overslandow, in it—was the Anglo-Saxon Roman alphabet, beginning around A.D. 600. Although Roman letters had been used by the Roman British in-babitants, the Anglo-Saxon compreses seem to have learned their babitants, the Anglo-Saxon compreses seem to have learned their leads of the Anglo-Saxon in England originally were pagans.) This carried to the angle of the Anglo-Saxon in England originally were pagans.) This carried Roman alphabet of England had about 27 letters, including four or five supplemental signs for certain English speech sounds beyond the soop of traditional Roman letters. Too of the extra letter were runes. One was called shorm, denoting the English sound "th," and the other was spin, for the sound "v" (there being as yet no. W" in the Roman all-plades). Thus Stormand cyn showed up in both the romit end the Roman alphabets of Old English, and they would become entwined in the histories of other letters, who he a' and W.

The oldest estant English writing comes from around the year 600 of the billed pages in Roman letter, translated at that time from Latin. There fallow some religious and legal writings and poetry of the late 600 n. The flower of Old English literature, the 383-line spin peem Remail flowaring. Bear: the here's name, was evidently written down in around 735—although the story is set in the early 500s and our single extant manuscript date from about 105.

The Norman Conquest of 1066 changed forever England's society and language. England received a French-speaking Norman ruling class, Normans and their descendants held wealth and power while being far outnumbered by the Anglo-Sxonon, who supplied the peasantry, laborers, and some of the middle class. Old English did not die under such eicumstances, nor did it continue unchanged. It gradually mied with superts of Norman French to become, starting in the 100-as substantially new tongious which we call Middle English. This was the language of the London poor Geoffrey Chauere (nevound 1580). Middle English would evolve into Noderen English, generally dated by scholars as beginning in 1950 and reaching maturity in about 1660.

Niddle English combined English and French vocabulary and English and French speech sounds, French spelling rules and French letter values dominated, as used by Norman elergy and teachers in England. Not only the words but the very letters of English underwart change, moving in a direction that we would call more modern.

For instance, the rune top disappeared from England's Roman alphade by about 1000, disholfed by the Norman letter W. And the Old English letter U. frequently written and variously pronounced, eams to be replaced in some spelling by the more Norman-looking O or OU so that Old English same (promoted 'sun-shi) beame Nidall-English same and then 'on,' while how ('how) beame hear and then 'loom.' 'the Old English same was follown to eventually yield 'mon.'

Meanwhile, Norman French had introduced into English a few sounds that were unknown to the original Angle-Sasons. These included certain French shading of overs founds the An and O gained in reportors, for example) and the Romance sound 'j' is six English 'jol', from Old French sjoff, menning 'livy' o' prestry. Niddle English worst eth sound 'j' with the letter I (consonantal) or G (safi), but in a forture century 'j' would impire a brand-new letter of the sliphabet. J. Alongisd-J. another new letter would emerge V. Together J and V. surriving after W. would provide the final letters by which the 23-letter al. pubbet of anicent floren gree vinto our on 26 letters. The Wentered our alphabet during the late 1900s, but for J and V full recognition would wait until all-alph centure.

continued

Modern English contains, in theory, some 500,000 words, of which bout 50,000 appear at least periodically in modern print. While the 50,000 include borrowings from many tongues—Ispanese, Yiddish, ancient Greek, and others—the two biggiest components are Old English and Old Freech, about equal size. During the Middle Ages, the voesbulary of early English roughly doubled through Freech admixture, from bout 12,000 to 24,000 words at that time. Meat of are modern words of Latin origin were delivered through medieval French, although a few (momentum, apparatual represent later borrowings for scientific or other technical vocabulage).

(A footnote: Within the Old English category here, a minority of words are not "pure" English but were borrowed from Old Norse into Old English, around AD. 800 to 1000, amid Viking settlement and trade in England. This Scandinavian group includes many of our own "sh" words, like "skill," "skim," and "bask.")

A comparison of French- versus English derived words offers insight on the social setting of Middle English. As the Scottals nowell Sic Wild. Its Scott observed in Fundors (1819), livestock often have English manuse on the hoof, as being tended by English peasants, but French names on the table, as being eaten by Norman lords. Thus English 'sheeps,' recons' calves,' and 'swine,' once shaughtered and coolede bearms French' must. "bed,' well, and profer. Robort Collaborine gives other examples in his look Dare Marredon Native Tongue (1933). Anglo-Saxons lived in 'cut-ties,' Normans lord in 'manusion,' "manuson,' "catles,' Anglo-Saxons shareveroped on a 'croft.' Normans owned a 'farm,' whose fields they might 'laws for 'errs'. Anglo-Saxons dath' words'. Normans took the 'profit.' Ye Normans, too, might 'laws' in 'appropriate' 'pursuits,' like 'wan,' 'government,' or 'stude.'

With some exceptions. Old English words tend to supply our vocabulary for necessities and other basics of experience, while French-derived words may reflect activities that are more intellectual, leisurely, specialized, or learnite. Old English gives us howen, bell sky, earth life, death, look alet, day, sight, food, deep, nummer, winter, mother, father, bus-band, wife, and home, among mmy others. French gives us for example prosident, legislature, confirme, contribution, and parliament. The baker and despited are English, the bandrer and destport are French. The super-ricity of French cohesing in admonstaged in words like book level. English, the bandrer and destroy are French. The super-ricity of French cohesing in admonstaged in words like book level. English, the substantial production of the super-ricity of the content of the super-ricity of the super-r

Some French words in English have the same meanings as certain off English words in liquists call used partings d'auditet. It has long been observed that the French word in a doublet operates usually at a more datasched or abstract level than the Old English not. Compare the following pairs. Old English first freedom and liberty, love and affection, hatred and emaily, friendship and unity, truth and versely, bying and mendacity, and can showly work and bloor. The English word may be better autient to physical conditions (deep water), the French one to a mental climate (a predound easy). With its more personned or viscoral effect. Old English has been preferred statistically in English poetry and outsor, For instance, in British shortly and outsor, For instance, in British shortly measured of 80;5. "England expect that every man will do his daty; the only French word is "expect."

Doublets contribute to one of the genetast strengths of English its richness (a French word) or wealth (an English word) of vocabulary. With its choice among words that presuit at different levels. English often can quickly capture shadings of meaning. And it can vary its word use to word resettion.

The two different roots of English affect its speech sounds and letters, too. Uniquely, our tongue combines factors of both major Western European languing éroupus the Cermanic and Romance. A Germanic tongue, English nevertheless employs certain Romance-derived sounds like 'j' which no Germanic language shares. [Most Germans might at first these trouble swips English. Cermany, 'tending introat toward Chermony) Or there is the insue of letter K versus. G. German and Sandman melling coulty priete the uncomplicated K and they downplay. C. In Remnece upillings, just the apposite. The C provides French or Inlain with most of what's needed- and K is nearly superfluous, being used mainly for foreign-borrowed words. But English Sines both camps. We favor spelling with C and we use a noff C before letters E, I, or V, as taught to us by medicard French K we depend now on K for nutille French, we have many words where a "b" sound precedes E, I, or Y—hennel, hin, picky—and K is the only way to alsow it.

• The proad of printing. The invention of a practical method of printing, by the goldsmith Johann Gutenberg of Msinz, in Germany, around AD, 1422, is a landmarkel of world history. Along with the capture of Constantinople by the Ottoman Turks in 1435, the Gutenberg breads through in normally used by historians to mark the end of the Middle Ages and the beginning of the muture Rensissance or the modern era. The topic of early printing is addressed in a historical section on pages 1759–81.



The creation of modern English can be troud back to the bloody welter of an October difference in A.D. 1666, on the sushers coast of England. At the Battle of Heating, doubt 30 miles and Belgishan a, Front-position invasion for or for pelary 5,000 miles to 10 miles and 10 miles of Normandy defected 7,000 English defenders under England King Horold and wor for William the Englash thouse. It was the only major battle of the invasion and would prove one of the most consequential in all history From the rethin invasion and would prove one of the most consequential in all history From the re-

suing mixture of two societies. Norman French and Anglo-Saxon, a transformed nation and language would emerge.

Here, in a secret from the finness Bayue: Topestry, Norman heights on herobookbeer down on the English shield well at the battle's start. The English, although disselcentaged in equipment and general renderses, would been the day only offer frigued. Norman retorast had induced them to break ranks and be lured to ambush, and after King Herold had been silled in the male.

The agenty—technically not a taystep, since the single are embessioned as an accurate many contracted white a generated of the letter and has trainitionally force based of Bayase in meritausteen Fource, were a Norman centre. On a lower load 25% for lang, never you discuss an indept code for lang, never you discuss an indept code for lang, never you discuss an indept code in subsequent of an angion extension part of the borders, top and bottom, contain decreative or angine mental images and examing lettering powdes a simple. Letter arrestive, to be seen shown, the Lette words we contain Angilorum currention the few access down, the Lette words we contain Angilorum currention the few all letters Video contains a language of the contains the letter of the contains a language of the contains the letter of the contains the letter of the contains the letter of the contains the contains the contains the contains the contains the remarket was a contained to the language of the contains the letter of the contains the language of the contains the letter of the contains the language of the language

### INCIPIT LIBER EXODVS



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or bedraces Greeneger

dis not formedle

and offer file A charming, ornate capital H opens

the book of Exodus in the Grandval Bible. See sidebar, pages 158-59.

# SLIGHTLY ANEMIC H



pronunciation.

ow narrowly H qualifies as a letter! H, our eighth letter, is our "least" letter, too. Its prob-

All other letters represent sounds created by expelled breath interacting with elements like the vocal cords, throat, tongue, teeth, or lips. Think of the sounds of A, K, or M. The H can lay claim to the expelling-of-breath part but

Due to its weak phonetics, H has a history of fading out of words in English and other languages over time. And H has been the subject of humiliating debates by grammarians down the centuries, as to whether or not it even belongs in the alphabet. Although we classify H as a con-

nothing else; uniquely, its sound involves no other

#### A PECKING ORDER OF SCRIPTS

A charming, omate capital H opens the book of Enodus in the medicuel, handwrite train failbe known as the Grandral Blick field a Soissi abboy on which it once belonged). Perned sometime around A.D. 840 at the abboy of Sc. Martin at Toms, in west-cernard Framer, and now housed in London's British Library, this treasured manuscapit a part to example of Carolingsian immunication; as a print occumple of Carolingsian immunication; and store cample of Carolingsian immunication and the cample of the control of the control of the carolingsian immunication; and the caroling single control of the carolingsian immunication search and the control of the carolingsian immunication; and the caroling single control of the caroling single caroling

Not all of the page is in Carolingian syle; rather, it presents a hierarchy of scripts. The three-word headline..." Here begins the book of Exodus"...—is in raditional Roman square capitals, imitating the look of ancient Roman letters curved in stone. Below that and following the initial H, Verse 1 of Chapter 1 appears in the undial pen syle (on which see pages 142—43).

The opening words are Hates nont nomina filterum lended qui ingreni nont in Angopum, "These are the names of the sons of Israel who entered Egypt." (In medieval Lain wirting, a final letter A could be signified by a but over the preceding vowel.) The word lender contains an uncial H, looking different from the square-capital opening H. The uncial h shape represents the earliest serve roward our modern lowerscase.

Below the brief uncial passage, the text switches to Carolingian minuscules for Veree 2 and following. The lettering is wonderfully clear, although tiny in size (economical of space and materials). Note the difference between certain Carolingian and uncial letter shapes, such as B, G, and N, with the Carolingian shapes generally closer to modern lowercase print. (One exception is the long-

sonant, it could alternatively be treated as something that's not a letter: an "aspirate," or phonetic breathing.

Nor is H's marginal status helped by its oddball name. Why aitth? Most letters of English are named for their sounds; a constyle Carolingian S, which confusingly resembles an f shape.) Note, too, the systernatic use of a dot and space to end a sentence, with an enlarged letter beginning the first word of the next sentence.

The enlarged letters fall into three categories. Most are Casolingian minucules "writ large"—the same lettering as the other text, penned slightly high got; However, a sizable minority (the second category) are uncial letters, stuck, among the minuscules. And a couple (the third category) are square capital. In Bibles of this era, a single square capital was normally written as the initial letter of the first word of each new biblical chapters Indeed, the words 'that-per ter' and 'capital' are related. Similarly, an uncial letter was used for the start of each new biblical ware, within a channel.

Thus, here, Vene 3 of Chapter 1 (just under the big H) opens with an uncial R for Bader-different-looking from the Carolingian-minuscule 1 of Isaschus, four words later. Over to the right-hand up, at the right-hand column, a large capital E stands out to announce the first word of Chapter 2: Egenus. Directly two lines below, there is an until E. marking Vene 2 of Chapter 2. The uncial E looks different from both the square capital and the Carolingian eshapes nearby.

The three levels of hierarchy are reflected in the letters' sizes. Uncials are bigger than Carolingian letters. Bigger yet are the square capitals, of which the biggest of all is the book's opening letter—an H, in this case.

We see in such hierarchy the beginning of our modern treatment of text. Each letter is thought of as commanding more than one shape and/or size, to be used variously on a page, according to certain rules. Modern print use mainly two categories: upper- and lowercase. The large Carolingian or uncial letter that begins sentences in the Grandval Bible has given way to the upper-case letter that opens our modern sentences.

sonant's name typically involves the sound itself plus a vowel sound: bee, joy, en, ar. Logically, H should be called "hee" or "hay." Instead, the name aitch doesn't even have the sound "h." Only one or two other letter names lack the relevant sounds: W's name is at least visually descriptive and Y's name, while missing the consonantal "y," does capture the letter's vowel sound, "i." What's the point of H's name?

First, the question of classification. Around A.D. 500, in the majestic city of Constantinople, the authoritative Latin grammarian Priscian judged H to be not a true letter. In the opus titled Principles of Grammar, drawing on the accumulated Latin scholarship of prior centuries, Priscian defined H as merely a symbol that announces a breathy pronunciation for the letter next to it, either before or after, in word spellings, Priscian (and his sources) had cottoned on the H's most intriguing trait: H seems to be as much about the sound alongside it as about its own sound.

All consonants rely to some extent on the letter next door. Consonants typically display their sound against a vowel. The sound of T. for example, is indistinct by itself, but it rings clearly when put next to a vowel or an agreeable consonant (as in the words "put next to"). H is the most extreme case: It is virtually inaudible alone. To be heard, H needs the A of "hat" or the E of "adhere" or the W-E of "when" (a word that in Old English was written and pronounced as hwenne, showing more clearly the H's function: most modern English WH- words originally were spelled HW-).

Yet in "hat" or "adhere" or "where," you could say the H is only coloring the pronunciation of the other letter, giving it some breath. By that notion, H wouldn't have to be treated as a letter itself. In an alphabet slightly different from ours, H could perfectly well be shown as an accent mark, over the other letter.

Take the word "hill." We might find no disadvantage in turning the H into an accent, to go over the I. We'd still pronounce the word as "hill" but spell it as something like "îll." Similarly, the word "rehab" could be "reab," with an accented A. And "when" could be "wen" or "wên"

That's pretty much how modern Greek does it. Greek writing denotes the sound "h" not as a letter but an accent mark, placed atop or alongside another letter that is to be pronounced breathily. The accent is routinely used, even in Greek words that English transliterates with the letter H, such as "Heracles" or "Rhodes." The Greek lettering of such words has no H letter, iust the accent mark.

Once upon a time, ancient Greek did have a letter H, which became the grandparent of our H. But the ancient Greeks eventually saw they could economize by dropping that sound from their letter list and reassigning the symbol H to a different sound.

Not surprisingly, H's inferior status among the Romans and Greeks served to shape the thinking of later centuries, particularly among European enthusiasts of Greek and Latin. One such was the French Renaissance scholar and type designer Geofroy Tory (introduced on page 46 here). In his wonderful 1529 book on the alphabet, Champ Fleury, Tory deals gently but firmly with H: "The aspirate is not a letter: nonetheless, it is by poetic license given place as a letter."

That sentiment was still current 200 years later, at least for old-fashioned thinkers like Michael Maittaire, an English scholar of Greek and Latin who wrote a 1712 English Grammar, Remarkably, Maittaire does not include H among the other letters discussed in his introductory chapter; instead, he delegates H alone to a later chapter. As he explains loftily, "H is not properly a Letter; and its use will be taught among those marks which belong to Syllables."

Still, H has had its defenders. One was English playwrightpoet-scholar Ben Jonson (heard from already on page 86 here). Jonson's 1640 English Grammar treats H evenhandedly. On one hand, Jonson ducks the issue of whether H is a letter or not: In his introductory run-through of the letters, Jonson does not discuss H at its alphabetical place but holds it till the very end, after Z, thus acknowledging a question or problem about H. Yet what he has to say is supportive: By any name, H is essential for our proper pronunciation of other letters—all the vowels and some of the consonants.

"H, whether it be a letter or no, hath been examined by the ancients, and by some of the Greek party too much condemned, and thrown out of the alphabets as an aspirate merely. . . . But, be it a letter or spirit, we have great use of it in our tongue, both before and after vowels. And thought 'dare not say she is (as I have heard one call her) the 'Queen-mother of Consonants', yet she is the life and quickening of C, g, p, s, t, w, or also r when derived from the aspirate Greek h."

Jonson here refers to H's role in seven patrings with other consonants—CH, GH, PH, SH, TH, WH, and RH—Occurring mostly in words derived from Old English, otherwise from an-cient Greek, for instance: cheat, sigh, telephone, shape, that, what, and rhapsodly. These seven pairings have varied and complex histories; in olden days, the "h" sound was more in evidence among them generally than today. Regarding our modern English pronunciations, we can say that the H enriches the accompanying consonant (what, hapsody), falls silent with it (sigh), or combines with it to create a new sound entirely (enough, cheat, telerhone, shape, that).

Ideally, a sound like "sh" would have its own, single letter, if does in Hebrew, for example, while "sh" has is own letter in Russian.) However, a reliance on two-letter combinations like SH, CH, or OI is an essential trait of written English, one way by which English is able to "save" on letters. Even with 26 letters, our alphabet is thinly stretched to cover the large number of English speech sounds.

Thanks to such letter pairings, H ranks high in rate of use, be-

ing about our ninth-most-often-used letter in English print. somewhere around R. and just above D. Yet in an analysis of spoken English, the sound "h" ranks low, accounting for less than 1.5 percent of English speech sounds. Clearly H sees most of its action in written letter pairings.

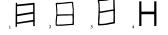
H wasn't always so complicated. In the Phoenician alphabet of 1000 B.C., the eighth letter had a guttural sound like the German "ch" in "Bach." As with all Phoenician letters, the sound was demonstrated in the start of the letter's name. The letter was called khet (pronounced something like "kate" with a breathy, juicy K). The name perhaps meant "fence" in the Phoenicians' Semitic tongue.

Meanwhile the Phoenician speech sound "h" was covered by a different letter, named he (pronounced "hav"), at alphabetic place number 5. Today he has become our letter E, still the fifth letter, while khet has supplied our H, still the eighth letter.

When the Greeks copied the Phoenician alphabet around 800 B.C., both he and khet became Greek letters, with modifications. The Greeks transformed the subtle he into their yowel E. called epsilon. Then, to supply the "h" sound, the Greeks turned to the Phoenician eighth letter, khet, whose sound was at least similar to "h." The Greeks reassigned khet to the sound "h," and they altered the foreign name to a more Greek-sounding name. The ancient Greek letter is traditionally called eta (pronounce "eight-a"), yet undoubtedly its very earliest name was heta ("hatea"), demonstrating the "h" sound. Either name was meaningless in Greek, aside from denoting the letter. In shape, the early Greek letter looked just like Phoenician khet.

This Greek heta, meaning the sound "h," at alphabetic place number 8, would reach Italy in the 700s B.C., destined for the alphabets of the Etruscans and Romans. Meanwhile, changes would occur in a distant branch of Greek writing, among "East Greeks" of the Asia Minor west coast: Here the leta would be reassigned as a vowel letter, eta, denoting the Greek long E. Gradually the East Greek alphabet, with its vowel eta, would become general throughout Greece, after being adopted by the dynamic cultural city of Athens in about 400 ns. Greek dialects that employed an "h" sound would then show such through an accent mark. This system has been inherited by modern Greek.

The West Greek "h" letter of the 700 s.C. took the shape II Reaching Italy, it was copied into the Etruscan alphabet, till at place number 8. The Etruscan letter, in turn, was copied into the newborn Roman alphabet around 600 a.C. Over time—and probably in mitiation of a development being observed in the Greek alphabet, in the shape of the letter tas—the Roman letter shape shed its horizontal bast top and bottom, to look like H. The



(a) Phonesiania shieu, the Yence, From an invergion of about 1000 NC. The eighth four of the Phonesiania sphakes, the tools a hart of 'one and, a enounced in the near of in name. The laters help may have negocial a cation of finning, as for livensk: two pales with rook strong formers. (b) By no Sc. Phonesiania shiel, hope had agreen implies, (b) Dirth Growth have ext., from an invergion of about 130 NC. As part of the Cortect ingring of the Phonesiania ski-pholes amound Box. (b), this time by the hope happe and number of plane of the Phonesiania flower of the Cortect in the School of the order in the School of the order in the School of the Cortect in the School of the

Romans called their letter something like ha (please don't laugh) and made good use of it.

The Romans' Latin language contained a fair percentage of words beginning with the sound "h." But in addition, the Romans began the practice of inserting H as a symbol for "thickening" the letter alongside; they did this specifically in transliterating Greek loan words into Latin-a consideration of increasing importance in the centuries leading up to the time of Christ, when Greek technology and cultural ideas were shaping Roman society.

Certain Greek letter sounds had no Latin equivalent. For four such Greek letters, the Romans felt they could approximate the Greek sound by writing the nearest-equivalent Latin letter with an H following, symbolizing a throatier or breathier pronunciation. Thus the Greek letter khi, sounding like a breathy K or C, came to be written in Latin not as a C alone but as C plus H. That was the birth of our hard CH (chrome, chronic, psychic), which in modern English almost always occurs in words from ancient Greek

Similarly, the Romans used T plus H to approximate the Greek letter theta, which carried a sound (foreign to Latin) demonstrated in the start of the letter name. The Greek letter tho in certain breathy uses came to be written as a Roman RH. And the Greek letter phi became PH. Today in "Philip," "photo," or "Anglophile," the Greco-Latin PH is pronounced just like F, but in ancient times this must not have been the case, otherwise the utilitarian Romans would have written it as F. a letter they possessed. Rather, the sound of Greek phi fell between P and F, combining P's puff and F's hiss, in a way now lost to us.

Equipped with these four equivalents of Greek letters, a Roman gentleman of Cicero's day could attend a lecture on philosophia or a contest in rhetorice, see a performance at the theatrum. walk out and admire some architectura, or partake of any of a hundred other Greek-derived activities (and words)-and write about it in Latin.

Fast forward to about A.D. 1200. In Norman-ruled England, Norman-ethnic clergy and teachers, faced with the task of transliterating native English words into purely Roman letters, would borrow the old Roman H trick. They added H to another letter in word spellings, to signal a "thickening" of sound.

Traditional Anglo-Saxon writing employed about four special letters, beyond the received Roman letters, for showing certain sounds of English. Norman authorities, working to discourage and eradicate those English letters, relied heavily on H in substitutions. Thus the abundant English sound "th" (as in "thus," "the," etc.), previously written often as a single English letter called thorn, came to be represented by the two letters TH, exactly as in a Greek-to-Latin situation in ancient Rome.

Similarly, the breathy English "g" or "y" sound (once denoted by the English letter youth) came to be spelled as GH, instead. However, it was GH's bad luck to be left behind by subsequent, general changes in English pronunciation, Originally, in words like "sight," "although," "cough," or "enough," the Norman GH-spelling mirrored the medieval pronunciations. Yet these pronunciations later changed, variously, and today the whole family of English GH words is notoriously unphonetic in spelling-to the frustration of purists like Irish author George Bernard Shaw (see page 138).

Our other written H combinations, SH, WH, and soft CH, were likewise created in the Middle Ages, Soft CH (cheese, latch) symbolizes an Old English sound originally written as a variant form of C. Norman authorities threw in an H, to bring the English spelling into line with French spelling, as in French char (cart). This Norman CH was destined, in both English and Erench to admit confusion between the soft CH (cheer) and the hard CH of words with Greco-Roman backgrounds (choir, chorus).

The ambiguous CH is among the most irksome features of English spelling. For example, how do you pronounce the aeronautical term "Mach number"? (Hint: A hard question.)

Probably H's most distinctive trait is a tendency to fade from pronunciation, particularly at the start of words. This has happened dramatically in Romance languages: Once abundant in early Latin, the sound "h" has fairly drained away from Latin's descendant tongues. In modern Spanish and French, H is an empty shell, still written in words like honor and honneur, but never pronounced-although an "h" sound (as we would call it) has emerged in the Spanish pronunciation of I and soft G. Italian spelling omits H entirely (foreign terms excepted), hence Italian words like orribile, onore, and eròico. One hallmark of a French or Italian accent in English is the omission of the sound "h" or difficulty pronouncing it.

Evidently, such opening "h" sounds evaporated long before the Romance tongues were even born, amid general shifts in the spoken Latin of common folk under the later Roman Empire. Modern scholars, by studying variant word spelling in inscriptions, have traced the dropping of "h" back before A.D. 200.

English has experienced loss of opening "h" to a lesser and greater degree-lesser in official pronunciations and spellings, and greater in everyday speech. An "h" at the start of words was a strong element of Old English. Today the Old English legacy survives in countless words like "happy," "heart," and "hearth," where H is permanently at "home." Among words of Franco-Latin origin, however, English has inherited a sometimes-weaker H. All of our official silent-initial-H words come via medieval

French: heir, honest, honor, hour, and (in the United States) herb and homage.

During one medieval era, initial H was actually dropped from Old French spellings, a trend affecting Norman-ruled England, too, where French words were being spoken and written. Although the H's generally were put back later, a handful of modern English word spellings are still missing their original opening H. These include "able" (derived ultimately from Latin habilis), "ostler," meaning a stableman (from the "hosteler." or host at a hostel or hotel). and "arbor," meaning a kind of garden, derived from Old French herbier (and not from Latin arbor, meaning "tree").

In spoken English, meanwhile, H has suffered rather more hits. For example, many of us speak naturally of "an historian who has written a history book," pronouncing the H of "history" but not "historian." We do so because we unconsciously feel doubt about the "stopping power" of an H at the head of a svllable that's not accented (as in "historian"): We tend to think of that H as not there, and the question is tested if the H-word is preceded by a vowel like the article "a." In print, the correct form is "a historian."

Certain American regional accents tend to swallow an initial H, especially in words of the H-plus-long-U-plus-M variety: human, humid, humor. A New York City-area accent can reduce "I saw him" to "I soaw'm," or "I said to her" to "I sed doer,"

Of course, spoken English's best-known loss of initial H occurs in the London working-class accent traditionally called "Cockney," associated with the city's East End. As documented in print by British writers starting with elocutionist John Walker (1791)—and as embodied for most Americans in the Eliza Doolittle character of George Bernard Shaw's 1913 stage comedy-satire. Pygmalion, and its musical adaption of stage (1956) and screen (1964). My Fair Lady-the dropping of an initial H ("'ello") was the most striking aspect of the Cockney accent as opposed to that of a middle-class Londoner. Also, certain Cocknevs were heard to overcompensate by placing H in front of vowels where it didn't belong. An anonymously written piece of about 1900 has the letter H complaining to the Cockneys that it has been banished "from 'ouse, from 'ome, from 'ope, from 'eaven; and placed by your most learned society in Hexile, Hanguish, and Hanxiety."

In class-bound Britain of the 19th and 20th centuries, the spoken H provided a small indicator of larger social divides. How you used H in your speech was a sign of which side of the railroad tracks you belonged to. As the unabridged 1933 Oxford English Dictionary explains under its "H" heading: "In recent times, the correct treatment of initial h in speech has come to be regarded as a kind of shibboleth of social position." (For the term "shibboleth," meaning "password," see page 293 here.)

Consequently, there arose a British adjective "H-less" or "aitchless," referring condescendingly to a labor-class Londoner or one of labor-class background, regardless of income. A published letter to the London Times of March 1894 sniffs at the political activism of a wife who "brings 'h-less' Socialists as guests to her husband's house." And a piece in the London lawver's Temple Bar Magazine of July 1893 contains the memorable phrase, "Millionaire cheesemongers who dwell h-less in the feudal castles of the poor."

Shaw's Pygmalion concerns a scheme to remake the "guttersnipe" Cockney flower vendor Eliza into a refined lady and pass her off in polite society as a duchess, by first tutoring her to speak upper-class style-a process requiring much work on her H's. In the 1938 Pygmalion movie version (although not in Shaw's original script). Eliza must repeatedly and laboriously practice to pronounce the sentence "In Hampshire, Hereford, and Hartford, hurricanes hardly ever happen." A similar detail appears in My Fair Lady.



(O) Early Roman It, from a curred incription of about 500 A. As explaid from the Crocks by the Erromator (100 A.C.), and from the Erromator (100 A.C.), this later sood at place number 8 and took the sound 15. (2) By the late 100 A.C.), this later sood a place number 8 and took the sound 15. (2) By the late 100 A.C.). The shape endings the Roman later was now used the 100 Brown and the place of the place of place of justified the place of the sound of 4 crowsher religibly above milled—the action illustrations in owner page daily. (4) As not and 4 if them at Latin Cappel pround in northern England around 190. This shape will integrat that of the explaid, 190 Acron (100 Acron

Outside of this lively literary corner, H seems to have hal ditle impact on modern culture, perhaps due to its being claimed by the hemorrhoid medicine Preparation H (a product name always good for a laugh in teen-movie dialogue and similar). On chemistry's elemental chart, H stands for hydrogen: You can remember that easily, if roublingly, through the existence of an H-bomb.

As to H's peculiar name. Like most letters, H takes its English name from the mediceal French serion, introduced to England after the Norman Conquest of A.D. 1066. The Old French name was hade or adve—written both ways but in either case pronounced as something like "ab-cheh" with a soft 'the" sound. Today that old pronunciation and the spelling adve survive in H's name in Spanish.

Where did Old French "ab-cheh" come from? One modern theory claims that since the minuscule h looked like an upsidedown hatchet, it was called in French the "hatchet" (hache, pronounced in olden days as "ah-cheh"). Yet a more plausible explanation traces the French name back to some name for H in late Latin, a name spoken in common parlance but nowhere recorded in writing.

As mentioned, H's official early Latin name was probably ha. By the early centuries A.D., however, that name probably shifted unofficially to something like ahha-a process described on page 127. Later still, the Latin name may have reached the form aucha ("ah-cha"). In Old French of the 800s A.D., it emerged as ache ("ah-cheh"). Arriving in England after the Norman Conquest, the name became anglicized to the pronunciation "aitch."



The shape of little i is charmingly incorporated in a French engraved scene, one of an alphabetical series, of 1865.

## INDEFATIGABLE I

magine the I as a pillar, supporting its substantial share of English in writing and print. Now count the I's in the preceding sentence (12 in 16 words) and you'll see what I mean—and what I can do, and how busy I may be, no, not me, I'm referring to I . . . Ah, skip it:

One of our five main vowel letters, I is by some counts the fourth-most-often used letter in English print, below E, T, and A. (Other counts put it sixth, below O and N also; all three letters hover in the same range.) I's strong showing is due partly to its place in the verb "s" and in the "-ing" ending of English participles and gerunds. Also, the I shows up frequently in combinations with other vowels, especially E.

The pronunciation of I and E together is notoriously varied, as in the words: varied, sieve, dried, friend, rein, receive, height. By itself, I has two main English sounds, short and long, as in "tin mine."

While short I is pronounced much the same from language to language, our English long I is a maverick: Long I means something different in English from what it means in any other European tongue. Spanish, German, or Czech, for instance, would pronounce long I as rhyming with "sca" of sin Spanish si), not with "sigh." While such languages may contain the vowel sound of "sigh." they don't spell it as "I" but usually as "El" combined. Example: German dei (pronounced' dry"), meaning "three."

The "ee" pronunciation of long I is the original and proper one, dating back to the ancient European tongues of Greek, Ernscan, and Roman. English stands apart, due to the mysterious vowel-pronunciation shift in England during the 1400s and 1500s A.D. Pito to that time, the medieval English long I was evidently pronounced closer to "ee," as preserved in English placemens like Lincoln. Likewise, the medieval English name for 1—derived from Old French and imitative of the vowel's long sound—was more like "ee" than "eye." In modern French, the name is still pronounced "ee."

This continental "ee" for-I has snuck into modern English in words borrowed mainly from Italian or French since the Middle Ages: pizza, piano, clique, liaison, to name a few; also ski (Norwegian) and Fiona (Gaelic). Among I's other variant sounds are the interesting effects in front of R. In words like "fir" and "madir," the short I reduces to an indistinct vowel sound, a schwa; yet long I before R. will stretch dramatically to almost two vowel sounds: "hire" and "fire" fryme with "list." in certain positions before another noun—million, union—the I may take the consonantal own of "a" about which more will be said in the next chapter.

But probably I's most distinctive feature is visual: the starkness

of its shape. It is the skinniest and simplest of our letters. Traditionally, capital I has been essential to type designers, as the starting point for the creation of a typeface. The designers's l supplies the typeface's basic straight line, to be incorporated into most other letters. A, B, vet. cA snote less than German master artist Albrecht Dürer wrote, in a 1535 treatise on letter design: "Almost all the other letters are formed after this letter, although always something has to be added to it or taken away."

The I being all straight, some designers recognize a second essential type-design letter—that one that's all curved, O. "Given and On and an I of any alphabet, we can make a very good guess at the forms of the other letters," the famous British designer Edward Johnston observes in his book Writing and Illuminating, and Lettering (1906).

Lowersse is the alphabet's smallest letter. In legibility, this creates a potential shortcoming (pardon the pun) that has affected its fortunes through the centuries. For example, the medieval i originally had no dot but acquired one because the letter as a hadres stoke was hard to distinguish on a crowded page of handwriting. By about A.D. 1000 the custom had arisen of perhaps topping the minuscule letter with a slanted mark, at the writer's discretion i. With the spread of printing in the late 1400s, the stroke was generally reduced to an economical dot in many typeface, although the stroke still show up today in custive-print wedding invitations and similar. The is' dot, meanwhile, has become proverbial for any small detail, in our expression "to dot the i's and cross the is' and cross

Another way in which medieval writers solved the "i-legibility" problem was to substitute a minuscule letter y, as it was easier to read. Thus, "in"s "might be spelled as "hys," for example. This expedient led to the increased popularity of letter Y and to its rise as a challenger to I in medieval and Renaissance English spellings (about which, more in Chapter Y).

Uppercase I, too, can be a headache, at least for modern graphic

designers. For instance, at the New York City-based magazine Vanity Fair in the mid-1980s, editors were requested not to allow the text of their finalized articles to begin with any word opening with the letter I. The reason: An opening letter in the magazine would normally he rendered as a drop capital, and a capital I in the sansserif fonts favored at Vanity Fair would look like: I. That shape, stuck in the upper left margin of a text page, was not easily recognizable as a letter of the alphabet but seemed rather to be a design ornament. Hence the editorial embargo against a starting I.

More recently, the letter has turned some of its shortfalls into gains. Today little i, meaning "computer connection," his joined e. X. and a handful of other letters as a brand mark of the digital revolution. In 1998 Apple Computer introduced its sleek iMac model. The "i" signified Internet, for which the iMac was specifically designed, but the real message was in the styling-the way the i stood stuck against the M, announcing some special feature within a superb organic composition. The name sent the message of "high tech and groovy"-and iMitation began immediately. Today brand names like iVillage, iHome, iTime, iPower, iPlane, and dozens more all promise to harness the power of computer search or remote control for your convenience.

Unlike most letter shapes through history. I's shape, from its earliest stages, grew less distinctive, not more so. In around 1000 B.C., the tenth sign of the Phoenician alphabet was called vod. Like all Phoenician letters, it was a consonant whose sound was demonstrated in the opening sound of its name: "y" in this case. The name vod meant "arm and hand" in ancient Semitic speech, and the letter's shape, a bit like a Z with crossbar, did suggest a jointed elbow-wrist-hand extension

By about the mid-900s B.C., Phoenician yod had been copied into the newly created Hebrew alphabet, for the writing of that A jot of a yod. Like our I, to which it is related, the Hebrew letter yod is the smallest in that alphabet.

7

language. Today the tenth Hebrew letter is still called yof and takes the sound "y." But the letter shape has changed considerably, shrinking to a mere pen stroke—so that yod, for its part, is the smallest of today's Hebrew letters.

When the Greeks took their turn copying the Phoenician letters too be the vowel letters needed for the writing of Greek. Presumably because yofs "y" sound naturally suggested the vowel sound "i," the Greeks made yof their I vowel. The Greek letter's sound was "i" short and "ce" long.

Having no tie to a Phoenician word for "arm and hand," the Greeks altered the name to iota—more Greek-sounding although otherwise meaningless in Greek. They soon straightened the letter's shape to an austere vertical stroke, probably in order to distinguish iota from their's I letter, sjøma, which was a zigzag.

Greek letters of the day had only one shape, no minuscule versus majuscule. But the fost stroke was simple enough to suggest a metaphor, and eventually the word fost took on a second meaning in Greek—amphing small in size or particularly, the lessel element in a bigger group. Our familiar phase "not one ioan" comes from Greek, specifically from the biblical book of Matthew (5:18), written in Greek in the 1st century A.D. In the King James Bible of 1611, the word isn's strankted as "joet." Our word "jot" derives from Greek isn's, with the same metaphorical meaning.

Meanwhile, in ancient Italy, the Greek alphabet was copied by the Etruscans (700 B.C.) and the Etruscan one was copied and



(1) Phoenician vod, whose name meant "arm and hand" (800 B.C.). Like all Phoenician letters, yod was a consonant; it took the "y" sound, demonstrated at the start of its name. (2) The early Greek iota-this example from an inscription of about 740 B.C.-loosely imitated the vod's shape. The Greeks had cooled jota from the Phoenician letter but had reassigned it to be the vowel I. (3) By about 725 B.C., iota's shape had become an austere line. The Greeks straightened it perhaps to avoid confusion with their zigzag letter sigma. (4) Serifs have never looked better than on this Roman capital I, from Trajan's Inscription of A.D. 213. In marble-carved inscriptions, the Romans gave weight and dignity to the letter shape. The Romans also narrowed the letter's thape column in the middle, to avoid the illusion of bulging created by a perfectly straight vertical bar. (s) An inked letter in the Carolineian minuscule style, from a manuscript of the oos. The shape makes reference to the Roman capital but also looks ahead somewhat to our lowercase i. (6) A dotted minuscule i from a handwritten Latin prayer book from Italy, early 1500s. The scribe's accentlike jot would later be finalized as the printer's dot.

adapted by the Romans (600 B.C.). The I-stroke entered the Roman alphabet as the ninth letter, where it remains for us today, The Romans called it something like "ee" and employed it as both short "i" and long "ee." After Rome's fall (A.D. 500), this Roman I passed into the alphabets of new European tongues like French, Spanish, and, eventually, English.

"I" meaning "me" emerged in English in the 1400s, from an Old English pronoun ic, related to the modern German pronoun ich (meaning "I"). This English pronoun "I"-gradually shifting in pronunciation from "ee" to our long-I sound-could be written as "i," "v," or "Y." With the spread of printing in the 1500s, it settled down as "L"



#### LETTERS IN TYPE

### Among Other Vast Effects, the Advent of Printing Would Finalize Our Alphabet

orano koperano adre (emper incipat: keperte cepta fima? Imporens Oranotemputerne deus qui unitaria de la compania de milereris quos tuos fide ko pere futuros elle prenofessie fuppli citte evoramis un pro quibus effundere preces de cretumus; quo (qui el predess feculum ad hue un carne retinet: vel fivorarun tam exuos

corpore fuscepit: interceden

It looks like print, but look again. This page of hundwritten Latin, from a prayer book premed by a mush in Nagles in AD. 1477, it a superb example of humanist script. Avide from the dotlew is and the Tong's (happed like an fund appearing at the beginning and middle of words), the letter shapes are not too different from those in this mornish newspaper.

The term 'humanist' or 'Humanist' indicates a postmedieval spirit of enlightenment, including a resevence for non-Christian ancient Greco-Roman literaturus, exident in Renaissance Italy especially. Humanist handwritins, emeri-

ing at Florence in the cord § 2000, morried together two different intering traditions, the equital fester object of active Roman store, cording whose servicing releasance, the equital fester object of active Roman store, cording whose servicing releasance and the day of the first to store, as the cord of the first of the service of the cordinate of the day of the first to store, as the cord of the first of the service of surface. (b) Carlidgian intimode, we regard \$2.7-\$\text{op}\$ and \$2.9-\$\text{op}\$ Florencial traject, the wave equify the most Roman equifical feature that more than the send service of the cordinate of the service of the ser

With the advent of print, the humanist shapes would be copied into the earliest typefaces of the style called "roman," which today supply our favored typefaces for books, newspapers, and majazines.

continued

### LETTERS IN TYPE-continued

The invention of a practical means of printing, in Germany in the mid-1400s AD, chansed the world. By allowing for quick and relatively cheap reproduction of writings, printing revolutionized literacy on a scale comparable with the original spread of the alphabet in the second and first

A print shop scene, from an engraving by one I, van Velde, in a Dutch book of 1628. The three workers, in chronological order of the printing process, are the typesetter, seated at right: the inker, at left; and the pressman, center. The typesetter is arranging metal blocks of type on a composing board, having selected them from the compartmentalized trave at his right. His arrangement creates (in mirror image) the words of a page to be printed. He works from a model page, handwritten or printed, lying on his desk. Meanwhile, the pressman is lowering a long sheet of paper onto perhaps two sections of prepared type. The type has been locked into a frame, face-up, on the printing press's "bed" (lower surface) and has been swabbed with ink. Next the paper will be clamped evenly against the inked type by the descending "platen" (upper surface) of the press. The printed sheet will be replaced by a clean sheet, and so on, nerhans hundreds of times. Later the same sheet will be printed on the other side, and the later still it will be woven into the produced book, providing two twosided pages.



millennium BC. Thanks to printing, whole segments of society below the wealthy classes gained a chance to own or borrow books. In 1500 a single handwritten copy of a book might represent two months work by a scribe in 1500 a printing press could run off 500 copies in a week, with a commensurate difference in retal price.

Not pair books were involved. Printing brought the true beginning of journalism, abevetizing, and public notification. In 1776, for example, the Declaration of Independence was hundwritten but then printed for distribution through the thirteen colonies, to be read aloud and potent in town squares. See prospovering the middle classes, printing contributed to huge social changes in early modern Europe, of which the Pootentant Reformation (2000) was but the first.

One of printing's strongest effects was on individual languages. Like television, but less so, print worked toward homogenizing a lanouage, by strengthening the influence of commercial centers like Paris. London, Coloéne, Rome, and Venice, Through print, the vocabulary and usage of Parisian French or London English began to bear more heavily on other dialects. England's first printer, William Coxton, set up shop in London (1876) because that was where the business was. But the Landon merbet determined much of Carton's choices and treatment of books: The English language in a Caxton book would need to be an Enélish that London could understand. Thus, London Enélish circulated in books through the country. We hear of one incident, around 1495. when Caxton's husiness heir reprinted an older Enólish book, haviné edited the landsusée to briné it into line with current London speech, he might have changed twey to "two," wend to "go," and so on. Changes like those in print hastened the development of a standard English. Gradually regional dialects were leveled, much as regional accents have been leveled by the effects of radio and TV since the 1920s.

The mechanics and early history of printing can be dealt with only briefly here. The general notion of printing onto paper is much older

continued

### LETTERS IN TYPE-continued

than Johann Gutenberg, For centuries prior to 1900. China and Karen had been printing text from inkell block of wood, the cared wood surface being perhaps an entire page. Similarly, European artisans since the early 1900s were printing illustrations from woodblocks or engraved that sheets, (Islay we still call a reproduced image a "pint"). But there was no versatile way to print text, For this, some hind of movable lettering would be needed.

The theoretical solution—obvious probably to many at the time—not create individual leters on little block. The letter would be presented as a mirror image in relief. You would need many letter blooks as not to rom out of any letter in preparing multiple pages on one. For durability and precision, the block would have to be math, not wool. Here were four challenges (t) to find the right metal to combine toughness with multability for easting; (t) to find a centing method to make all the letter blocks exactly the same size; (t) to find a nonzone make all the letter blocks exactly the same size; (t) to find a nonzone make all when the same size (t) to find a nonzone make all the letter blocks exactly the same size; (t) to find a nonzone make the same size (t) to find a nonzone make the same size (t) to the page.

These problems were solved in about 1510 by a middle-age goldamilt in Mainz, in western Germany Johann Granfleisch, called Gutenberg (good mountain) from the name of his wealthy family's estate. The metal he chose was an alloy of feed, tin, and antimonys and his pressing method, as the world knows today, was a wooden machine, a server-operated press, inspired no doubt by the grape presses of the Bhiladend vincountly near Mainz.

Details of Gutenberg's life and work remain murby. After printing a masterpiece—his Latin Bible of about 1455 of which 47 copies retoted y—Gutenberg lost his press shop in a lawwiit brought by his investor, Johann Fust. Fust, probably using Gutenberg's equipment and plans soon produced one of the most beautiful bools ever, the Mainz Palter, illustrated here on page 64.

Meanwhile, Gutenberg's equipment and process were copied by other metalsmiths, who became Europe's first generation of printers. Within 15 years of Gutenberg's Bible, printing presses were operating in Strasbourg, Cologne, Basel, Rome, Venice, and Paris.

The move to Italy had great consequences for the alphabet, for in Italy the market demanded different letter shapes from those of German print (shick were based on German medieval hands-riting). Italian readers wanted letter shapes like those of the lovely humanist hands-riting of Rome and Florence, See page 1739 Humanist shapes thin got flushing in print, in typiches known as room and fin sharted, thinner variant) Italia:—the names reflecting their tyth-sentury Italian origins and their printing their profession of the processing and their printing transport and type to the profession of any forman type was achieved in about 1370 by a French printer. Nivolas Jerson, working in

The arrival of print finalized the alphabet in other ways, too. The little i now got its dot, the use in England of Old English letters gogle and there became greatly reduced, as these shapes did not exist in continental-made letter easts and so on. Most important, print mechanics demanded that letter shape be uniform in size and consistent in style within a typeface. Variant or funcy letter shapes had to be used sparingly, for an obvious reasons Letters now came from laboriously produced metal easts, not from the tip of a pen.

The new value on consistency helped call into question certain ill-difficied use of letter dupes. For example, the shape, I and I sever being used interchangeably to mean either a vowel sound or a consonant sound chich in English was "J. and similarly, shapes U and V were used in terchangeably for a vowel or a consonant, "or "«." In the hands of terchangeably for a vowel or a consonant, "or "«." In the hands of parities of the 1500 and 1500s, blages J and V gordally became assigned enhancing to the consonant sounds. Later J and V would officially since the same of the sounds of the same of the same

This elegant J was penned by the famous

American type designer Frederic W. Goudy

(1865-1947), based on ornamental forms

found in European manuscripts of the 1200s A.D. Our J shape originated in medieval handwriting styles, as a book-tailed version of the letter I.

# THE BIRTH OF

ust as flowing water follows gravity, letters follow language. Their job is to show sounds of speech. If sounds change, so will letters, in some way, eventually.

If a language evolves new sounds, its alphabet has to catch up, probably by adding sounds to existing letters or (a step further) by inventing a brand-new letter or two.

Such is the story of J, our noth letter in alphabetical order but historically one of two last letters (with V) to join the Roman alphabet. Ancient Romans of A.D. too had 23 letters only: no J, V, or W. Ancient Latin had no sound "j," hence no letter for it. The "j" sound arose later in Eutopean speech, amid tidal shifts that transformed Latin into the medieval Romance tonsues. Even after the sound became common, the letter was slow to emerge. Not until the 1500s A.D., amid the standardizing effect of printing, did J start to appear systematically in spellings of French and other European languages.

In English spellings, J had arrived by 160. Nevertheless, over the next 200 years, J was not recognized universally as a separate letter but (for reasons explained below) was viewed by some as a variant of letter I. Only in the mid-19th century, under influence of new dictionaries by Noah Webster (1828) and others, did J and V gain full acceptance and follow W into our alphabet.

J was born from I, the preceding letter in alphabetical order. The pregnancy and birth labor took 1,000 years, from about 500 t 500, the entire Middle Ages. Prior to that, the affair began in language, in spoken and written Latin of the Roman Empire.

With no sound "j," the closest that ancient Latin came in sound was the consonant "y," This sound was written with letter I. Latin I could thus be either a vowel or a comsonant. Comparison may be made with our English Y, which is a vowel in words like "fly," and "cycle" but a consonant in "yes" and "cycle" but a consonant in "yes" and "caynon"—and practiced readers have no trouble distinguishing the two roles. If Y precedes a vowel letter, Y is probably a consonant, sounded as "y". Latin I worked much the same.

Latin consonant I occurred only in front of a vowel letter, usually A or U, as in the word iam (now), pronounced "yahm" or perhaps "ty-yahm." Even in front of a vowel, the letter I might not always be a consonant. A Roman name like Claudia treated I as a vowel, forming a separate syllable: "Cloud-i-ah."

The name Claudia shows how consonantal I could be considered a natural facet of vowel I. Say the name carefully and you'll hear a faint "y," riding unimvited between the I and A: Cloud-i-(y)ah. That's because vowel I can create a "y" sound in front of a following vowel. You hear it in English: triad, I am, Iazier, Iion.

No doubt this factor recommended the letter I to the earliest Roman adapters of the alphabet, citca 600 B.C., for part-time work as a consonant symbol. The Greek and Efuscan writing systems, models to the Roman, were already employing their letter I that way.

Many modern uses of English J go back to Latin consonantal. I The Roman gods whom we call Jupiter, Juno, and Janus actually had Latin names Juppiter, luno, and Janus (pronounced "Yupp-piter," "Yoono," "Yahnus"). Janus was patron god of the doorway (Janus), connected also to the Roman word for doorkeeper, janute, whence our janitor. The Roman calendar opened with the month of Januarias, Janus

Julius Caesar was actually named Iulius (Yoolius). The emperor Trajan was Trainaus (Tarla-yahn-us). In Rome, if you caused someone an iniuria (injury), you might be hauded before the iniulies (tagless) in a court of inititia (justice). There you'd swear innocence by the emperor's minitus (injustey) and you'd call witnessers your coniums (spouse) and your brother, the one whô inmic (younger). Whatever future claim the letter! pingth have on these words in English, they began in Latin with rather different sounds and swellense.

Nor did the sound "j" sneak in under letter G. Latin G was always hard, no matter what letter followed. A Roman jewel was a gemma, the G pronounced as in English "gum."

But changes in spoken Latin were under way during the cenuries prior to the Roman Empire's collapse in around A.D. 500, and they accelerated after. As Latin broke into regional dialects that grew into French and other Romance tongues, pronunciations shifted beneath radiational Lain gellings that were slower to change. Modern scholars trace pronunciation shifts by analyzing variant spellings in late Latin writings and a general spellings in early Romance writings, such as the Cold French Strabourg Oath



The communital of actives Roman surings in domantically resulted to the exceptions are; in the detail of the terted plaque to the same glicial, puts and to be com-force included to a Lamentaineworne wooden by German surin Albrech Daver (about 1996), found during hildren possibly bear the Hebern name Vechas (possila, which the Roman promound on "Dyna" and translatented at lexus, four definit going to the Roman promound on "Dyna" and translatented at lexus, four definit going the Roman promound on "Dyna" and translatented at lexus, four definit going continued to the Roman promound on "Dyna". The state of the Roman promound on "Dyna" and translatented a lexus, four definit going continued to the state of the Roman promound on the Roman Roman

of 842. (See page 147.) Studies show how the "y" sound of consonantal I slurred gradually to new sounds, involving a more relaxed tongue position.

In medieval Spanish, the new sound was "h." In medieval French. Italian, and Portuguese, the consonant reached a sound very like our I. For example, ancient Latin's word for justice, institia (vustih-ti-a) turns up in early Spanish writing as iusticia, pronounced something like "hoos-tee-see-a." The same Latin root produces Old French justice, pronounced something like "joos-tee-seh."

These changes affected the sense of letter I. No longer were its vowel and consonant sounds logically linked, as in ancient Rome. Now they were two unrelated sounds. Letter I had become really two sounds sharing one written shape: a first step toward its eventual split into a second shape.

Developments in Old French would prove highly relevant to the story of English after 1066, when the Norman invasion of England brought Norman French vocabulary and spelling rules (and much else, besides) to the Anglo-Saxons. Old English apparently had no native sound "i." That sound now entered the English stream as a French borrowing.

As mentioned. Old French "i" was pronounced like our modern English I-in fact, more like ours than like modern French J, which is pronounced like the S in English "measure." Modern English preserves the Old French sound, while in France itself the sound continued changing, growing smoother through the Middle Ages.

Like other of our consonant sounds, "i" is phonetically more complex than we might think. You place your tongue behind your upper teeth, as if about to say "d" or "t," but then you blow forward, buzzing, as with a fricative like "sh" or "f." The process has saddled sound "i" with the ponderous title of voiced palatalalveolar affricate-in which "palatal-alveolar" refers to your starting tongue position and "voiced" to your use of your yocal cords. while "affricate" denotes a consonant sound that ends in a fricative release, a tightly channeled expulsion of air. English uses only two affricates: "i" and "ch." The two are closely akin phonetically, "ch" being the unvoiced counterpart of "j."

Many modern languages lack the sound "i," just as ancient Latin and Old English did. German and the Scandinavian tongues have no "i." When speakers of these languages are learning English, they may substitute the sound "v" for "i"-hence expressions like "Yumpin' Yimminny" from jovial Swedish-immigrant characters in 1940s and 'sos Hollywood films.

In Geoffrey Chaucer's England, around 1380, sound "j" occurred all over Middle English, in words borrowed from French, derived mainly from Latin. Two different letters represented the sound: consonantal I, as in Middle English maiestie (majesty) and iustice (justice), and soft G, as in "gem" and "Geoffrey." The use of these letters, like the sound "j" itself, was a French feature that had passed to English. The sound as vet had no letter of its own.

But it needed one. Europe's spoken languages were settling down as written forms in their own right, alongside literary Latin, and the part-time use of letter I had come to seem inadequate for the frequent sound "j" in English and French or "h" in Spanish. The need was felt for a new letter, to symbolize more authoritatively the new sounds.

Meanwhile, there existed in European writing a variant shape for minuscule letter i. Scribes working within certain handwriting traditions-typically in medieval Latin, for religious or legal documents-had for centuries been drawing an elongated i, with a tail hanging below the baseline. The tail might point straight down or hook leftward (the preferred form over time). If the handwriting style normally capped the i with a dot or stroke, then the tailed i would likewise be capped: i.

# JUSTJ

The Latin word usti, "rightenss men," is futured in two is letters with sails, in the sensial pen siple, from a Padier of the 4000 A.D. The tailed letter shape of this reas was an embelliments only, with no meaning for pronunciation. A thousand years would pass hefore the J form came to be reserved for a certain sound—although not the same sound—in Seasith. French further, German and other Fauronan tourses.

The tailed form originally meant nothing for pronunciation: The tail was purely visual, an ornament to distinguish little i on a crowded page of handwriting. Like any other i of the era, the form j could be either vowel or consonant. Often it was chosen to begin or end a word. The Lain word fill itoson jugith be writen as fills, the word insuf (righteous men) as justj. But most handwriting traditions avoided the tailed form in a capital position, such as the start of a proper name or of a book chapter, where a cantial I form would be used intested.

# Janifinaqua

A tailed minuscule i begins the Latin phrate ignis in aqua (fire in water), from the celebrated Grandsul Bible, written in France around A.D. &n. (See pages 158–59 for a description of this Bible, a splendid specimen of Carolingian minuscules.) The words are from the Apocrophal book of The Wickson of Solomon (15:19). What happened next, starting by 1500, was that the variant letter shape and the variant letter sound gravitated toward each other. Gradually the j became reserved exclusively for the consonantal sound "j" in French and English (or "h" in Spanish), even though that wasn't the shape's original meaning.

The marriage was prompted by printing's spread through Western Europe, after about 1470. In general, the mechanics of print ordained that letter shapes be clearly distinguished and limited in number. A printer's box could hold only so many letter blocks, which were small metal casts. Where once a variant letter shape had seemed a token of a penman's skill, it now became imparcial. If the shape j were to be included as a letter block, it would need a specific job—an assignment that cried out to be matched with the consonantal I sound.

The earliest fixed use of j was in Spain. Here, soon after printing's arrival in the 1470s, we find the shape j for the consonant and the shape i for the vowel, in all lowercase uses in the Spanish language. A capital shape J followed, appearing in Spanish print before 1600. Thus, with no change of pronunciation, the holy name lesus ("Hay-soos" in Spanish) came to be spelled as Jesus. The word institut (hoos-tee-see-a) became justicia. Modern Spanish) climb with still less It own and the Sound' in Spanish climb will less It own and the Sound' in Spanish.

Publication in Spain helped promote J for other languages. In German lands, where consonantal I took the native sound "y," that I eventually became replaced by J in spellings. Thus, German J got the job that in England had already been assigned, for other reasons, to letter Y. German J still denotes sound "y": Swiss psychologist Carl Jung stays "young" forever.

In France, where consonantal I meant the "shj" sound, this sound was now pursued by letter shape J. The J began to replace consonantal I in French print and handwriting after about 1570. With no pronunciation change, French instite became justice;

maiesté became majesté; and the French name Iules, derived from imperial Roman Iulius, was now spelled Jules.

Italian, meanwhile, rejected J after early experimentation and instead denoted the sound "j" with a soft G—ether (of in front of the old I when followed by A or U, or G instead of I before other vowels. Today, among Italian words starting with the sound "j". Besus is Géra, justice is giuntizia, and Julius is Guillo ifform which the surrame Giuliani derively, Italian uses letter J only for foreign words already in entri. Ike "izaz".

In England, the changeover from I to J was guided partly by examples of similar French words, like "justice." Still, the English transition was slow and irregular, taking from about 1560 to the 1630s. The two printed masterpieces of the age, the King James Bible (1611) and the First Folio Collection of Shakespear's plays (1623), use I in the old way and don't use J—except that the Folio does have J capitals in the table of contents and other secondary text, a sign apparently of the publishers' ambivalence about J. Other English print of the time might show the consonant a I for capitals but jor lowersace. And there was flux between J and soft G, in spellings like maiestir, magestic, and majesty, all for the same word.

Even after J became standard to English-Inaguage print, many people considered it a factor of letter I and not a letter unto isself. (Similar controversy attended V in relation to its mother letter, U.) The English Japhaber of about 1640 had 24 letters. Scholled debated for generations afterward whether J and V should be admitted officially as two letters more, to stand next to their respective vowel letters in alphabetical order. London schoolmaster Thomas Dyche's grammar book, A Coulde to the English Tongue (1779), lists 26 letters, but Samuel Johnson's monamental Distinancy of the English Language (1755) stands fast at 24, handling J as a variant of I and V as a variant of I.

# The life and death of King John.

## Aitus Primus, Scana Prima,

Bacer King John, Queens Elmer, Pershody, I few, and Se-Medary, with the Charpton of France.

King John. or fax Cherilian, what would Frence with vs ? Char. Thus (after greeting) speakes the King of France.

In my behavious to the Maretty, servered Maintly of Applicationers. Else. A firinge beginning : becrowed Mainfly & K. John, Silence (good mother)heure the Embufie.

Cher, Philip of France, in right and tree behalfe Of thy deceased breeher, Gefreyes forms, Anter Floregiere, laies moft lawfall claime To this frine lland, and the Terrinories To Ireland, Profilers, Access, Torque, Mains, Defining thee to lay slide the fword Which femies vinepingly thate fenerall titles, Andput the families youg Archer hand,

Which none but besore, and you, and I, thall heare, Same Shorts Efer. Mr Liege, here is the flyangeft controughte Court from the Country to be indg'd by you That our I heard: fhall I produce the men?

K.feke, Lerthemapproach: Our Abbies and our Priories thall pay This expeditions charge what men are you? Ever Pakers Sanicohredes and Their

Philip. Your frichfell (absect, I s gereleman, Barne in Narohametenfore, and eldell fanne As I impacts, to Robert Paricerbridge, A Souldier by the Honor-giving-hand

Of furdion, Knighted in the field K. Iohn, What are thou?
Robort. The for and being to that fame Fortion g. John. Is that the elder and art then the heyee? You came not of one mother then it feemes Place Mult certain of one mother mighey King.

Early 17th-century English ambivalence toward the I (a letter invented on the continent, after all) has left a mark on the First Folio collection of Shakespeare's plays, published in London in 1623, seven years after his death. Letter I never appears in the main text. which uses old-fashioned I and i. Above: On the opening page of the tragedy King John. "John" and "majesty" are "John" and "Maiesty." Yet J does appear in italicized secondary text such as page headlines—but only in capital form, not lowercase, and never in Shake-

Johnson uses I and V in spellings throughout his dictionaryincluding the I to spell his own last name—but in editorial comments he rejects the reform of actually placing them in the alphabet. He gives neither I nor V a dictionary heading; his headings run "H. I. K. I." and "T. U. W. X." Words beginning with

## The life and death of King John.

What woman post is this ? buth the no husband That will mke paines so blow a horne befeecher? Once, 'us my mother: I how now good Ludy, What being a you heere so Court to hashify?

Exer Laby Understandings and Lease Genery.

Laby. Where is that flave thy breches? Where is he?
The holds in chafe mine honour vy and devene.

Tag. My bouther Ealers, old Sir Ealers force:
Calculated Society Course, the Earers with by my.

Sciena Seconda.

Este infere Angiers, Polip Ring of France, Lance (Dealples, Andrea, Conferent, Archive. Levis, Believe Angiers well-man brance Angiese,

## 62 The Tragedie of Romeo and Juliet.

Prochlop: you guern the the councilist fately laft highe.

Agen. Goodmorrow to you both, what countefeit I fell give you?

Mor. The lip fetche lip can you not concelet?

Arriver that goest feet-custom of thy blood, Ecologist that rob'd the Lion of his beast,

Nov. Out upon year what a man are yea?

Ass. One Gentleweens.
Thus God had wade, hindelfte no man.

Nov. By my much it is faid, for himfelfe no, mar qualtar God ham on the god for the man when I may had.

## The Tragedie of Romeo and Inleet. I manied them; and their finite marriage day Was Trials Decomplies: whole regimely death To this fame place, t

Was Tylinh Doomelday: whole varietly death Banish it the new-made biologorouse from this Cities Fee whom (and not for Tylinh) Julie glode. You, to remore that logge of Goesle from her, mee and Ediset. 79

And then in pells because from Messa.
To this fame place, no this fame Messament.
This Letter his early bid me give his Futher,
And theremode me with death, gaing in the Venile,
If I depend not, and left him them.

spaori suge directions, even shough indiricted. Notice King John verm Imme Gurrey (show, up), Eme the healthing can be inconstient, as in Juliee seems labele on the Romes and Juliee Jugo (Centre and bostom). Apparently the publisher usuant die Bard is un word keep clean of menglingeld, Jushich they can inconsistently substrates. But within a generation after the Folio, the J would be standard to English syelling, in place of communities.

J are distributed under heading "I," and ditto for V and "U." Johnson's first entry under heading "I" is the pronoun "I," followed immediately by entries for "Jabber" and "Jabberer," which are followed eventually by "Jackal," "Jam," "lambick," "Jangle," "libis," "Ice," "Idiot," "Jealous."



(s) Lener y of the Roman handarings in the, about A. 0. 19, in the workel typle. () Tailed i from the Conducal Bilds, entiren in about 82, in the Carolligues intermounce lept. Although the tailed in mean sorbing special promonisation, the shape would later be chosen by European primare hade exten welters () (a) Moureaux Fornels princip of jobac stift phows the type designer's abott on a randation to the technical the Carollingan tribed large. (a) (Spermer) in the popular Historica popies, disquoted in Suitentenda in the later years to mirror the rentantian of the fat edge. With in caronded hook, the letter seems to balance plantingly on its bottom.

The authority exerted by Johnson's dictionary helped to delay Jand Vo Sifical arrival by at least 75 years. Their wait ended only after another landmark publication: An American Distributory of the English Language by Connecticut educator Noah Webster (1828). Webster, who took a questioning attitude generally toward British spellings and usage, treated J and V as full-fledged letters and thereby, through the influence his work was to have, delivered a 26-letter alphabet to the young United States. Holdous remained in Britain, where Chaftes Richardson's New Distributory of the English Language (1830) omitted J and V. But by midcentury, acceptance was connected.

J has a secret to divulge now: Its name didn't always rhyme with K. As natural as the "jay, kay" jingle may seem in recitation, J's name originally rhymed with I, prior to the late 19th century. That's logical in light of J's origin: It was "the j-I." Eventually, however. I's name became attracted to K's through the stronger appeal of the long-A rhyme. In Scotland and some other parts of Britain, the name "jye" stayed in common parlance until about the tosos.

The name "ive" must have come to English from medieval French, as did most of our letter names. The modern French name for I, pronounced shipe, represents a development from medieval "ive."

I's names in other tongues reflect the letter's diverse use. In Spanish, where I takes sound "h," the letter is called "hota," spelled iota, a name that means the "h-sound iota" (iota being letter I: see the preceding chapter). In German, where I takes sound "v," its name is "yot," spelled jot, meaning the "v-sound iota."

I's distinctive shape has contributed little to English vocabulary, due no doubt to competition from the word "hook." We have a J-curve and J-bend and that's about all, mainstream-wise. The "I" fountain pen mentioned in some-20th century American writing did not involve a hooked shape; the model I was simply an inexpensive but well-regarded product of the Esterbrook pen company, from 1948 to 1955. The I's specific meaning (if any) remains obscure. The oddly pleasant term "jaywalk," first documented in American print journalism in 1917, uses "jay" in a very old sense of "simpleton," a meaning inspired by a garrulous, intrusive kind of bird.

Most of our letters take their shapes from ancient Roman capitals carved in stone, but I is one of a very few to have emerged in lowercase, via medieval penmanship. Uppercase I is basically a European printers' invention of the 1500s; there were no ancient models to work from Consequently, capital I has been disesteemed by some. The alphabet scholar David Diringer calls it "inferior in design to other letters, lacking the balance, boldness, and

dignity of the classical Roman monumental letters." Yet for many of us, J large or small has a jolly shape that sweetly evokes fishing and Victorian field hockey.



#### MAN OF LETTERS



Entlish next, inernalist, and scholar Samuel Johnson (1709-84)—shown here in an oil portrait of about 1772 by his friend loshua Reunolds—was a Litchfield bookseller's son. Johnson's yest learning and mercurial wit went to needure, in 1765, the hest distionary the English language had yet seen. His 40,000-entry Dictionary of the Enalish I anaugar combines limbiness and remarkable prevision in its process and is the earliest English dictionary to include literary quotations illustrating word use. The work made Johnson famous, though not rich.

The dictionary presents a conservative 18th-century alphabet of 24 letters, in which I and V are used in smelling but are denied places in the letter row. Instead, I is treated as a variant of letter L and V as a variant of U. Johnson chose this interpretation after deliberating and in soite of some contrary scholarly animon at the time. His decision would, through his posthumous influence, serve to delay I and Vs final admission to the alphabet until the mid-19th century.

K is for Komunismus? The K becomes a symbol of industry and perhaps repression in a 1980s image by Czech graphic designer Oldrich Pomunrup, from the final years of that nation's communist regime. Among Emellib-tenkiny roaders, too, in the 20th

Germany.

century, the K might have a sinister look, suggesting the foreign languages and totalitarian regimes of Eastern Europe and

# K AND ITS



indred in sound to both C and Q, the goodhearted K has to fight for its market share of English spelling. This

book's chapter on letter C has already mentioned the rivalry of C, K, and Q, a rivalry unique in scope within our alphabet. Generally, our letters are too few: We could use more, to represent sounds like "sh," "th," or the schwavowel (as in "mental"). Yet we extravagantly allocate three letters for one sound, the unvoiced velar ston, "K:

The big loser in the three-way turf war is Q, nearly the least-used letter in English print. K fares badly too, standing at about number 22 or 21 in frequency of use, fourth or fifth to last. C stands at around number 13. From K's viewpoint, C hogs the limelight and quite undeservingly—for C is far less consistent in sound than K (or Q). The C turns to "s" before E, I, or Y, while K is always "k."

Indeed, K saves C's skin in some spellings, as in the change from "panic" to "panicky" or "shellac' to "shellacking," where K is inserted to denote the "k" sound that could never be shown with the word ending "-cy" or "-cing."

Since K is more dependable than C, why, logically should we use C for "k" at all? Why not substitute K? We could spell "contact" as "kontrakt" and "convector" as "konvektor" (German does). And iettison O while we're at it: God save the Kween.

Recommendations like these have been put forward by thinkers through the ages who have sought to simplify English spelling by making it more purely phonetic. K is a traditional darling of spelling reform, an ugly duckling turned want to replace the problematic C and morithund Q. From the writings of Englishman John Hart in the mid-toth century through the British-American New Spelling movement of the 20th, K has been advocated as the one symbol for the one sound. New Spelling, for example, writes "queen," "collidec," "discover," and "kick," as "News," "kolvd," "diskaver," and "kik."

In real-life spellings, K is vastly favored over C among Northern European languages and those of Eastern Europe that use the Roman alphabet, including German, Dutch, Swedish, Czech, and Hungarian. Hence, German words like Katalog, Dokument, kompakt, effekti, Nomenlehatr, and Kommandompea, In German, you might meet a debadiner Theaterbriker. Or a Mosileer in a strange Kortion. The German affection for K is exemplified in the provert of a bygone era that said a married woman's domain is exclusively the four K's. Kinder, Kinde, Kinder, Kleider—children, church, kitchen, and clothing.

German C, meanwhile, is the lesser letter, relegated to letter combinations like the soft SCH of deutsch (the German word for "German") or the hard CH of Sachs (a surname referring to Saxony, often anglicized by 19th-century emigrants as "Sacks"), Similarly, in Czech, in Croatian (a language that calls itself Hrvatska), and in several other Eastern European tongues, C mainly helps convey "ts" and soft "ch" sounds: the "k" sound belongs almost exclusively to K. Only in a few foreign words like "California" does C show up alone to mean "k."

Regarding the odd rivalry of C, K, and Q, history is to blame. Chapter C has sketched already how the Etruscans of ancient Italy. to meet peculiarities of their language, maintained three different letters for the "k" sound. These were the ancestors of our C. K. and O. and, after being copied into the alphabet of the ancient Romans-who didn't need three any more than we do but who nevertheless preserved them-the C, K, and O were bequeathed to alphabets of medieval European languages, including English.

However, the full story begins earlier, in Egypt of 2000 B.C. Among Egyptian hieroglyphic symbols was the stylized picture of an outstretched hand. For Egyptian writing, the hand might contribute to various meanings in combination with other pictures, but alone it meant the word "hand." Alternatively, the hand picture could denote the sound "d," for it was one of about 25 hieroglyphs that Egyptians employed at times as alphabetic letters. The symbol's "d" sound corresponded to the opening sound of the Egyptian word det, "hand."

Around 2000 B.C., certain Semitic foreigners in Egypt, probably soldiers or laborers, invented the world's first alphabet: perhaps 27 letters, keyed to Semitic language sounds. As described in

the introductory chapter, pages 19–28, the earliest Semitic letters were pictures—a human head, an ox's head, a throwing stick, an eye—all copied from Egyptian hieroglyphic pictures, but with the Egyptian pictures' names and meanings discarded. Undoubtedly, the whole Semitic alphabetic concept was prompted by the example of Egyptian picture writing, particularly those 2.5 pictures that doubled as Egyptian letters, showing inty speech sounds.

Simple and distinctive, the Egyptian hand symbol was a likely choice to be copied into the new Semitic system. The Semites created their own "hand" letter: a picture of an upright hand, called by the Semitic name keph, "palm of the hand," and signiflying the "k" sound that began the name. This keph was the direct ancestor of our K. Today the fingers of the early letter shape survive, distortedly in the divereint sorkies of our shape K.

As usual for the early Semitic letters, kaph is better known to us from a later stage of its use, the Phoenician alphabet of about 1000 as. Culder the Phoenicians, the letter shape changed to a rather abstract hand, easier to write as a letter. The earliest Phoenician kaph showed three fingers converging later the Phoenician shape voloted to something like a backward K.

Kaph came 11th in the Phoenician alphabet, just as K comes 11th in ours. Following kaph in sequence were the L, M, and N Phoenician letters, at places 12, 13, and 14, where our L, M, and N fall today—a reminder of how much of the Phoenician alphabet still lives with us.

The Phoenicians had two letters for the "k" sound: kapis and epph, the ancestor of Q. The point of the distinction was that the Phoenicians and other Semites pronounced their "k" in two slightly different ways, involving slightly different rongue positions. Thus, each "k" sound had its own letter for writing. No doubt valuable for the Phoenicians, this distinction between K and O would prove basically useless for the Indo-European—

speaking peoples who were destined to inherit the alphabet: that is, the Greeks, Romans, French, English, and others. They all would pronounce only one "k" sound. As for the letter C, it was never part of the Phoenician alphabet but would be invented later.

Around 800 B.C., kaph and qoph passed to the newborn alphabet of the Greeks, who renamed them kappa and qoppa. Today qoppa has long since dropped from Greek as superfluous. But kappa remains as the Greek K, the 10th letter of that alphabet.

In modern English, kappa plays a modest role in scientific terminology (representing something toth in sequence, for example) and among U.S. college fraternity names, also in the names of academic societies like Kappa Mu Epislon and Phi Beta Kappa. Kappa Mu is the national college mathematics honor society: The three Greek letters abbreviate the core words of the fellowship's



(i) Egypian hand hiroglyh, 200 s.C. This suring probled approach project Somitic forgingen in Egypt to struct a "hand" large for their formatic alphabet, (2) The Somitic Interluph, meaning "hand of the hand." From inverpious careal in contral wars Struck, about 279 Lea. C. Not meetabligh the Egyptians model has meretriden growing in 8 and, the high reportroop of the structure of the struc Greek motto, translatable as "Learn to appreciate the beauty of mathematics." The three letters of Phi Beta Kappa represent the words of its Greek motto: Philosophia bion kubemetes (Love of wisdom is the helmsman of life).

By 700 B.C., Suppa, apopto, and the other Greek letters were being adopted by the Etruscaus, Not soon created their letter C out of the Greek symma, at place number 3; the C became the third Etruscan 'k' letter. Like the Phoenicians but more so, the Etruscans promoted C, K, and Q slightly differently from each other: Each was used only with certain following vowels. The distinction can be glimpsed in the spellings of the three letter names. The Etruscans probably called their C by the name 'ksy" (spelled C-B); their K they called "ks" (K-A); their Q was "koo" (Q-U).

The Romans, who spoke Latin, a tongue far different from Erruscan, copied the Etruscan alphabet in about 600 B.C. Included in the package were the Three Stooges—er, rather, the three "k" letters: C, K, and Q, highly redundant for Roman language needs. Eventually the Romans imposed order. They made C their prime "k" letter and relegated Q to a specialty use: always alongside U to denote the Latin sound "kw," as in quantum (how musch).

K drew the short straw of the arrangement: It came to be almost entirely neglected by the Romans. By about 300 n.C. it was used only for a handful of Latin words where it had taken hold prior to the primacy of C. One such K-word was the name of Rome's detested enemy city of North Africa, other written in Latin as Carthago (Carthago) but sometimes as Karthago. The unusual K must have looked extra creepy to Roman eves.

Even with the influx to Roman society of Greek technical and cultural vocabulary in the centuries after 300 B.C., the Roman K was not called up, as logically it might have been, to transliterate the kanna letters of Greek loan words. Instead, the honor went to the Roman C (pronounced always as hard C, in that era). For instance, the mythical witch whom the Greeks called Kirke (hawk lady) became the Circe of Roman poets, still pronounced as in Greek (kir-kay) but with C's instead of K's. The large, copper-rich, Greek-occupied, eastern Mediterranean island known in Greek as Kupros came to be spelled in Latin as Cyprus, yet (again) pronounced much as in Greek-a pronunciation that has created our English word "copper," the Cypriot metal. Similarly, Greek names and words like Arkadia, Perikles, komma, krokos, kolossos, and hasilike were transliterated to Latin as Arcadia, Pericles, comma, crocus, colossus, and basilica. The Romans were damned if they'd use their letter K for any such words; they just preferred C.

In modern English, the Roman C for Greek kappa can be found in hundreds of Greek-derived words, whether related to ancient Greece or to modern technology (microscope, cinema). The earliest layer of Greek-derived words to reach English did so in latinized form, during the Middle Ages, delivered mainly via Old French, Subsequent borrowings from Greek into English. during the 16th through 20th centuries, stuck to the prior rule of using latinized spellings: C for kappa, Y for the Greek U letter, and so on. Thus. English "acanthus," not "akanthos," and "cybernetics," not "kubernetics" or "kubernetiks." Only in very recent borrowings like "kudos" (from Greek kudos, "praise, glory") have kanna and other Greek letters been more accurately represented.

Miraculously, Roman K survived more than 1,000 years, roughly 600 B.C. to A.D. 500, in its shunned position as the leastused letter of Latin writing. That it didn't just fall out of the letter row is surprising, a tribute to the strength of tradition. But K's day would come later, after Rome's fall (500) and the emergence of new European nations at the start of the Middle Ages. In that era, mainly through church missionaries, the alphabet of old Rome came to be fit to newer languages, like English, German, Norse, and Polish. These tongues would need a K for their writing, in ways that old Latin didn't.

By the Middle Ages' start, C was a problematic letter (and remains so today). As used in Church Latin and the nascent Romance tongues, C before the vowels E. I. or Y was customarily pronounced as soft: either as "ch" or "s." The spelling rule reflected vast changes that had occurred in the pronunciation of late Latin over prior centuries. A changeable C was fine for a Latin-derived language like Spanish, which shared in the conditions that had created the spelling rule. But not so a Northern European tongue like English or German, with non-Latin origins and its own pronunciation patterns. A German root like ken, meaning "to know," needed to show a "k" sound before the vowel E: How else to write it but with K? A spelling with C. "cen," would invite the misreading "sen," Accordingly, when early German began to be written in Roman letters, just before 800, scribes and teachers seized on the uncomplicated K. Neighboring tongues like Danish and Czech followed suit

Todav K and C rule different sectors of the map of Europe. The "K languages," favoring K over C in word spellings, lie mainly in the north and east, as mentioned: They include the Germanic and some of the Slavic tongues, also Finnish and Hungarian (which together belong to a third language family). C's province lies generally farther south: Spanish, Portuguese, French, Italian, and, in the east, Romanian. These languages rely almost exclusively on the old Latin C and use K almost never, typically only for foreign borrowings. Among a handful of French K-words, for example, the most mainstream one is képi, denoting the round, flat-topped, visored French military and police cap. The word comes from Swiss German kappe, "cap."

English, as often, straddles both traditions, Germanic and Romance, and combines their elements. We use K to supplement the preferred C in our spellings, at a ratio of about one to five. Our unusual custom of using both to this degree stems from the centuries after the Norman Conquest of England in 1066. Amid the burgeoning vocabulary of Middle English, generated from a mix of Old English and Old French, Norman scribes and authorities in England favored Norman French-style spellings with C, which worked fine for appropriate-sounding words like "cat." "cease." "city" "cow," and "cut," But, as in German, the scribes also faced English pronunciations that didn't work for C, pronunciations with a "k" sound before an E, I, or Y, as in "king," "Kent," "sneaker." "rocky." How to spell those? Answer: what you've just seen, K. A phrase like "mackerel cakes and kegs of cider" suggests how English spelling developed K to hold the hard sound amid E, L or Y.

Simplicity of use may be the reason why K became favored over C in transliterating foreign words that have flooded into English since the 1600s, often as by-products of British colonialism. These aren't just words like "ketchup" and "kiosk," with problematic vowels, but also: kangaroo, koala, karma, karate, kung fu, karaoke, kow-tow, kumquat, skunk, polka, mazurka, and many others that could have taken a C.

K-words arose even where older English words had used C. The title of Islam's holy book, meaning "recitation" in Arabic and originally transliterated as Coran, became Koran in the late 1700s (now often Qur'an). In North America, the one-paddle, sealskin boat of the Inuit entered 18th-century English as "kayak" despite what might have been a precedent for C: "canoe" (from a Spanish transliteration of a Caribbean native word in the 1500s).

Sharing a sound with two other letters, K routinely gets used nowadays in the sort of deliberate, eve-catching misspellings that

#### WHY WE SAY "OKAY"

As an accessory to many deliberate misspellings in English. K may be partly reponsible for the creation of our most American expression, "okay," Printed as "O.K.," the term is first documented in a Boston necespage article of March 1859. According to the current Oxford Despith Dictionary, the best-documented through is that "O.K." began as abherivating the jocaluly incorrect written no-tution "of lostreet," [all correct," O. Other theories—that "O.K." was the photeic rendering of a wood from the Chocaw language of from a West African tongue of Southern slaves—lack support, the dictionary says. Regardless, "O.K." became the 1840 presidental campaign slogan of incumbern Martin Van Buren, nicknamed 'Odd Kinderhook," stare his birthylace of Kinderhook, New York, Van Buren got K.O.\* din the election, Issing to William Henry Harrison, but memorable he had helped to populative "O.K.".

marketing people love. Consider: Kool cigarettes, Kool-Aid fruit drink, Krispy Kreme doughnuts, Kwik Sew patterns, Kidz Korner website, Klean-Strip paint removers, Kwest management consultants (not to be confused with Qwest long-distance provider), Kandy Korm, Krazy Kat (George Herriman's affionting newspaper cartoon series of 1915 to 1944), and the Pontiac Arake sports utility vehicle, to name a few Although visually a bit clunky, the K spelling can suggest a hip, subversive style, too kool for skool.

A more sinister mispelling has been "Amerika." from 1966 political protest banners and graffiti in the United States and elsewhere. The word—which is the German rendering of "America" and the title of a novel written around 1912 by Franz Kaßa (an author preoccupied with political repression)—succincid worked the totalitarian nightmares of Nazism and communits

Eastern Europe, applying them to American foreign policy and law enforcement. So Richard Firmage observes in his book The Alphabet Abecedarium.

K was Kafka's own initial, of course, and that of his most famous protagonist, Joseph K., of the novel The Trial (1925). Kafka viewed his personal letter with typical pride and confidence. As he wrote in his diary: "I find the letter K offensive, almost nauseating."

Today K's menacing aspect lives on in the Ku Klux Klan. Formed in the American South after the Civil War, and now more diverse geographically while demographically much more of a fringe group, the KKK pursues white supremacy and the terrorizing of people of color and other minorities. The name derives perhaps from the Greek word kuklos, "circle," plus "clan." Alternatively, ku-klux was said to imitate the sound of a pistol hammer being cocked.

Elsewhere, K is a benign initial. From Greek khilioi. it can mean a thousand of something, as in "She earns a hundred K." A 10K race is 10 kilometers, about six miles. K represents the element potassium, from the medieval Latin word for potassium, kalium, related to the Arabic-derived word "alkali." Kellogg's Special K breakfast cereal is named simply for the Kellogg Company. K2, the world's second-highest mountain, on the China-Pakistan border, is so called from having been the second peak surveyed in the Karakoram Range. But a police dog K-9 unit is just a pun, a phonetic rendering of "canine."

The U.S. servicemen's K rations of World War II were named for Ancel Benjamin Keys, the scientist who developed them. These lightweight, compactly packaged, no-cook emergency meals, officially called "Field Rations, Type K," were a small triumph of American technology, superior in nutrition and convenience to anything available to other combatants. Introduced in



(i) Buman K Fow a rightes shift incription of about pot 8.c. The Ruman shape had been copied cloudy from the Eremant. No thick allow copied from the Grovet.

(ii) Manne Ruman K Fom the ton 8.D. Narry 3 certained later, in this, this shape is considered to great a steep of the state of the s

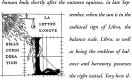
1942, the K's quickly displaced the inferior C rations of that day—K versus C again—although an improved C version would make a strong comeback in the postwar armed forces. (The C of "Field Rations, Type C" was not an initial but an ordinal, meaning "number 3 in development.")

Speaking of the 1940 . . "The K" is a mysteriously titled poem by American writer Charles Ohon, permed in 1945, a few months before the end of World War II. In "The K", the 34 year-ald Ohon announces his decision to be a career poet, not a bureaucrat, having recently quit his job at the Office of War Information. Perhaps alluding to the Allies pressing toward victory after earlier years of disaster and funtation, the poet describes himself in terms of sexual arousal or rearousal, dimbing forward from a trough of failure or exhaustion:

Take, then, my answer: there is a tide in a man moves him to his moon and, though it drop him back he works through ebb to mount the run again and swell to be tumescent I . . .

The verses continue, yet the poem's title may perhaps here be explained. The K would be that "tumescent I." In other words, the K. symbolizing Olson, is a stick man, with two less and an erection, moving forward. To judge from the K's proportionsit's a capital K, no less, not even a lowercase k-we can safely call poet Olson an optimist.

A curious drawing from Champ Fleury—the 1529 book about the letters by French type designer and calligrapher Geofroy Tory—presents L's shape in cosmic or mystical terms. Tory claims (apparently seriously) that the ancient Romans designed the ideal L through reference to the shadow case by a human body shortly after the autumn equinos, in late Sep-



lustrates the design concept, with the man's shadow (lower right) supplying the guideline for the letter's foot bar. The titles in French, from left, translate as "grand deference" and "the long letter;" that is, the L. Tory—uho would become the official printer to King François I through the credit of having written Champ Fleury—normally employed letter-design methods that were more scientific.

## THE LURE OF L



ateral emission of breath,

that's the secret to L. L's sound comes from using

your vocal cords while you push air past the sides of vour tongue as it partly blocks your mouth with

in tip at the palate. (Seem complicated? We do it countless times a day without thinking.) If you sound a continuous L, then drop your tongue free and slightly purse your lips, the L turns to R. The two consonants in English make up a small category called "liquids"—meaning consonants that can be sounded continuously and

with minimum friction in the mouth but that are distinct from our semivowels, W and Y. L and R's kinship is demonstrated in Jap-

anese pronunciations of English. As has been much observed. Japanese speakers, without practice, cannot say the sound of L. a sound absent in their tongue. Instead, they naturally substitute R. The expression "No problem" becomes "No probrem." "Flying" becomes "frying."

The sounds of L and R are considered among the loveliest of human speech. The expression "cellar door"-which has gained recent attention due to its mention in the teen film Donnie Darko (2001)-is said to possess a combination of sounds particularly sweet to the ear; of its five consonant sounds, three are liquids, Admiration for "cellar door" goes back at least to 1963, to an essay titled "English and Welsh" by medieval languages scholar and Lord of the Rings author I. R., R., Tolkien, "Most English-speaking people," Tolkien writes, "will admit that cellar door is 'beautiful,' especially if dissociated from its sense and spelling. More heautiful than, say, sky, and far more beautiful than beautiful," Tolkien explains that for him, as an Oxford undergraduate in 1911, the study of medieval Welsh offered a whole language full of cellar doors

For pure ability to soothe, the letter L probably tops all other English consonants, edging out another contender, M. The L's calming effect is heard in "lull," "lullaby," "lollipop," "lotus land," and "la-la land"-the latter two sometimes referring to fanciful atmospheres of the Pacific Northwest and southern California. respectively. Even the term "loss leader" (as in a sales item) may suggest some mildly narcotic effect.

L's delicate sound has been appreciated and exploited by wordsmiths through the centuries. Ben Jonson, in his 1640 English Grammar, said of L that "It melteth in the sounding, and is therefore called a liquid." In many languages' poetry, L has conveyed softness, calm, flux, childishness, slipperiness, departure, or gradual release or surrender, including sexual. Remarkably, most of these nuances are honestly advertised in the title of Vladimir Nabokov's sensationalist 1955 novel, Lolita, about a 40-year-old man in love with a girl of 12.

L helps to paint a picture of biblical Eden in John Milton's Paradise Lost (1667)-

Hill, dale, and shady woods, and sunny plains. And liquid lapse of murmuring streams, . . .

-and of evening's fall in Thomas Gray's "Elegy Written in a Country Churchvard" (1750):

The curfew tolls the knell of parting day, The lowing herd wind slowly o'er the lea . . .

Let's not forget the opening line of a well-known Latin poem. written in about A.D. 130 by the Roman emperor Hadrian, reflecting sadly on the soul's flight from the body at death: Animula vaoula blandula (Gentle little soul sent wandering . . . ), in which the L's seem fairly to slip from your grasp. One hopes the emperor produced his ghost poem without benefit of a ghostwriter.

L's history flows smoothly, too, Two letters that are probably primitive L's appear separately in the world's oldest known alphabetic writing, the stone-carved inscriptions at Wadi el-Hol in central Egypt, from about 1800 B.C. One of the letters seems to be part of the written ancient Semitic word el, meaning "god" (see the photograph on page 39). However, as with other letters, our best information on the early L comes from a later stage of the ancient Semitic alphabet, namely, the Phoenician alphabet of 1000 B.C.

The Phoenician letter had a crowbar shape and was called lamed, pronounced "lah-med," meaning "ox goad." (A goad was a strong stick, typically with a crook handle, for poking livestock in herding.) Lamed took the "I" sound that began its name. It came 12th in the Phoenician alphabet, the same position our L holds today.

When the Greeks copied the Phoenician letters around Soo Ac., they made laund their own Letter, at alphabetic place number 12. As with all Phoenician letters, the Greeks adjusted laund's name to make it more Greek-sounding. They called their letter launds. The meaning "ox goad" had vanished in transition; the name launda had no meaning in Greek aside from signifying the letter.

The Greeks also made one change to the letter's shape: They reversed it, so it faced the opposite direction from the Phoenician



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which clony instituted the Crock. (2) Roman L. of the late 200 N.C. Schaft reached the right
which clony instituted the Crock. (2) Roman L. of the late 200 N.C. Schaft reached the right-

#### LAMBDA SOCIETY



Greek lambda, the L letter, in capital and lowercase forms in modern Greek. Both come from letter shapes of classical Athenian writing of about 400 B.C.

Like delks, ets. and other Greek letters, lambda continued evolving in shape within the Greek alphabet, after being handed off to the Erruscans of Italy for their alphabet in about 700 Rc. Within Greek writing tradition. lambda's shape eventually stood up on two legs (above, left). It's still possible to see in it the basic aspects of our own 1. shape.

This mature lambda would have adventures of its own, For reasons obscure, the lowercase form \(\lambda\) became the early 20th century's scientific symbol for any kind of worderight, often used in regard to shorrower radio. With this background, \(\lambda\) in about 1500 became a symbol of gy identity—the connection being that, in the cra, a homocoull lifestly geniplest upday require a degree of sexcey and discrete signaling; individuals would look for others on the same worderight. Today, athough the concellentes issue is in many locales obsolete, danbda and \(\lambda\) remain emblems of gop pride. For example, on a college campus, the name Lambda Society on mean only a homocoul interest group. The U.S. national leshian soority is called Lambda Delta Lambda the national ger fragerine's Delta Lambda the

version. Where Phoenician lamed had pointed its foot or handle toward the preceding letter in the writing. Greek lambda pointed the other way, toward the letter that followed. The change brought lambda into line with most other asymmetrical early feeel letters, whose bars and projections pointed in the direction of the writing flow, not against it. Early Greek writing itself could run either right to left or left to right; therefore lambda might face either was, but according to the direction of the flow.



(1) Imperial Roman L of the 100 A.D. Einhaused by hundrome crift and appring, this hapewould become the general model for our medium prince epital. (2) the L in the seculiar testic Lank hundrering epits, from a memority probably of the 100 A.D. Very insuline to thermic Lank hundrering epits, from a Lank meligina test from southern England, about 100 A.D. The lank test from misseasche epits, from a Lank meligina test from southern England, about 100 A.D. The photometry legible forms our distriction from the Cardinguist single, from plant their and number of the geoletic from an admitted to the control of the control of the 100 A.D. The form them. Rome of the control of the 100 A.D. The form them the control of the 100 A.D. The form Rome. Rome of cardinguist memisches of controls period, romantic large expended to medial for lowerses better of the earliest roman populars, around 420 A.D. The humanist shape lives on in the princip of lands of the 100 A.D. The form them that the second of the 100 A.D. The form them that the second of the 100 A.D. The form them that the second of the 100 A.D. The form them that the second of the 100 A.D. The form them that the second of the 100 A.D. The form them that the 100 A.D. The second of the 100 A.D. The 100 A.D

Lambda with other Greek letters was carried in Greek trading ships to western Italy (7000 m.C.), where the letter was quickly copied into the Etruscan alphabet. The Etruscan L letter, in turn, was copied into the newborn Roman alphabet (600 m.C.). The Romans modified the letter's shape further and bequeathed it to us.

Visually the L has won less applause than phonetically. Capital Looks fine, but howerease lhas the distinction of being our least-recognizable letter form of all 52, as analyses of modern reading tests have shown. When separated from the contexts of familiar word spellings, the linvites confusion with capital 1 or numeral 1. On manual typewriter—the laptops of yesteryear—the lower-casel doubled as the numeral 1.

The lowercase I also demonstrates the superior legibility of serif typefaces (which employ letter shapes with tiny finishing strokes, based on ancient Roman models; the typeface on this page is such a one). Tests show that serif lettering can be read more quickly and at smaller sizes than sans serif (the type style that omits serifs). Such advantages are embodied in the lowercase l, which offers three little nibs to catch the reader's eye for recognition, versus the starkness of its sans-serif counterpart: I. This I for sans-serif lowercase l is very nearly the same shape as the sans-serif uppercase I. The word "Ill" at the start of a sentence-no joy to read even in serifs-would in sans-serif type look like III. a figure that might be a Roman numeral 3 or three sans-serif lowercase I's. Such ambiguity is perhaps the low point of modern mainstream typography. It's Enough to Make You III.

Imperfections like these will slow a reader down, but they are not fatal, for one important reason: As adults, we don't read by letter; we read by word. Our eyes sweep along the page, instantly recognizing the word shapes and taking meaning from them, with little thought to individual letters. The optimum word shapes for this purpose are lowercase-preferably in serif type around one sixth of an inch tall. On the other hand, text printed in all capitals deprives us of familiar word shapes and makes for slower reading. Mention that to your office mate who likes to send out all-capital "URGENT" memos.

Like other letters, lowercase I does its bit by contributing generally to the familiar word shapes in our texts. In that sense, its shortcomings in shape are more theoretical than practical. By standing in place in our word spellings, it earns its pay.

Not surprisingly, the indistinct lowercase I shape came very late to the alphabet: It was the last to arrive. All our lowercase letter shapes were created as forms in ink, amid handwriting styles of late antiquity and the Middle Ages. The shapes of d or h, for example, emerged in the uncial pen style probably in the 300s A.D. But the shape of lowercase I became finalized in ink only in the 1400s, in the humanist pen style of Italy, (Some letters never developed a different lowercase form, such as O and X.)

The 12th letter of our alphabet, L ranks about 11th place among the letters in frequency of use in printed English-slightly above U and either below or above D. A silent L before a consonant in words like "could" and "walk" commemorates a sound once pronounced in Old English, according to scholars. This slow vanishing act can be glimpsed in "palm," a word listed in modern dictionaries as having two possible pronunciations: without the L sound or with it.

In print, an "ell" may be a building's extension, at a right angle to the main structure, so that the whole thing would resemble an L from a bird's-eye view. Or an "ell" can be a right-angled pipe. But in Shakespeare and other earlier English writers, an "ell"-unrelated to the letter shape-might mean a measure of length, about 45 inches, dating back to an Old English word, eln. An "el" with one L is short for "elevated subway line," as in Manhattan's old Third Avenue El, dismantled in 1955.

One L. the title of Scott Turow's 1977 memoir of his first year at Harvard Law School, refers simply to the first-year student, designated as "One L," versus "Two" or "Three L." In measurements, L may abbreviate "length," "longitude," and (in lowercase only) "latitude." Surprisingly, the Roman numeral L. meaning 50, does not abbreviate a word (the Latin for 50 was auinauaginta) but rather is thought to commemorate a primitive Roman symbol, a numeral, that became standardized as the letter L shape. The same holds true for the puzzling Roman V for 5, X for 10, and D for 500, none of which stands for a Latin word. However, M for 1,000 did abbreviate the Latin word mille, while C for 100 evidently began as an abstract symbol that over time became "attracted" to the appropriate letter shape for abbreviating the Latin centum. Meanwhile, Roman I for 1 and II for 2 speak for themselves. Roman IV means "I less than s." And as we all know by now. Roman ||| means "ill" (just joking).

The traditional symbol £, for British pound sterling is an L in the medieval black letter ink style. It stands for Latin libra, the old Roman pound weight, also commemorated in our abbreviation lb. (Libra could otherwise mean "balance scale" as immortalized in the name of the constellation Libra; see page 214.) In England by about A.D. 1280, the word meant a pound weight of silver, the standard large monetary unit, equivalent to 240 silver pennies flater, copper ones, eventually devalued and refigured at 100 per pound). If Britain should ever move to join the euro currency system, the £ will sadly lapse-slipping, lost, while the bell tolls farewell. And so farewell to L.



#### ONE L OR TWO?

## The Creation of American Spelling

Winston Churchill once defined the British and Americans as two peoples separated by a common language. Not just in accent and vocabulary but in spelling, too, is this true.

Like the spelling of 'honor' versus 'honou' and 'defence' reuss' rédence,' the use of one L'ereas two in creatin positions in words is a sur sign of American English. Classic examples include American regulath. Classic examples include American removed the 'rewelled,' "jeweller," "counselon," and woollen.' Yet American Spelling may sometimes take two 15, not only in obvious cases like 'hall' but in 'controlled," "impelled" (from 'control' and "impel'), and desorber.

Most of our specifically American spelling rules come from Nosh whetser, the Connection-born educates and lexicotypathe whose magnum opus was his 1828 American Dictionary of the English Language, granddaddy of all "Webster" dictionaries today. Webster's row-volume, 70,000-entry tome beame the authority for spth-entury/American vocubulary and spelling, and set American English on a confident course away from British usage.

An American partict, Webser had interrupted his undergraduats study at Yale to serve briefly in the American Revolution, and he personally knew George Washington, Benjamin Franklin, and, on unfriendly terms, Thomas Jefferson. Webster envisioned a distinctly American language, to help unite the new nation and make it independent of Britain's printing presses and other cultural influences. This American language he sought to engineer, personally, through his writings and lectures.

At a time when English-language spellings were still fluid, Webster compiled his dictionary with an eye toward establishing consistent

spelling rules that would create differences between American and British English. The British authority of the day was Samuel Johnson's 1755 dictionary (on which see page 193). Many of Webseer's spellings differ from Johnson's.

Some Websets spellings can claim to be more authentic than the British enes: Websetes' "color" and "favor" (versus "colour" and "favor") return the words to their original Latin spellings, with no intervening influence of medieval French. Other Websete spellings could fall back on the claim of being, in the 1820s, the existing, prevalent Americanisms. like "racker" for British "racquer" and "jaif for "god." But other of his choices look more willful—like "modi" internal of British "moudd," from an Old English word—and seem prompted by his ulterior motive, to separate American from British. And a few \$183. Websterisms were so occentries, such a s'iker for "acre" and medieval-syle "ung" for "rongue," that the American public rejected them, and they disspected from subsequent dictionary editions.

Webster would generally, where feasible, choose the shorter form of a word for American English, thus 'program' no "programme," plow" not "plough, "ax" not "axe." A favorite target of his was the double consonant, to be condensed to one consonant from British "waggon" to American "waggon," for instance. Consonant doubling of ten occurred where a word, ending in one consonant, became a derivative form, as in the British change from "Socas" to "Gossamo".

Webster decreed an American spelling rule that a final consonant in an unaccented yllable would not be doubled in derivatives, usually. Thus "focused" (one S) was to be the American form. This rule knocked the second L out of many prominent words, of which the American versions became "traveler," "channeled," "marvelous," "duclies," and so on, where British spelling would keep two 1s. But Webster did allow consonant doubling in accented yllables, which is why whave "acoulling-"distiller," "Sectionine," and others today:



An advance personality with a letilities wind and ministering soil. Must Weber (1754)—here in a paining of about 176 by Jones Shapels—worked to general being free at letilities of the most of the Web Herferffel. Connections, the first and with the first Herferffel. Connections, who becomes a richestrately and the pain language and advance leftlening incomes as age; as with a function Spelling theory (25). In this loss the Revolutions 150 them as a days; the wind is marketing spelling theory (15). In this loss the Revolutions 150 them are along, the description of the state of the second spelling free and the second of the second of the second precursive politicing and on adult neither flow from the second of the second o

Inministly Westers would dear reject and change many of the spelling in his paller, soon after in polishion, he was tricked with seei som of referrings describes, the waster of the spelling the state of the spelling the best part of the search and the state of the search would necessary American politility, the segment, would enough revent in papering thin books and appretary lastics and more generally would help break theretical homenable cultural advantages and search and the state of the search. Every reservince the triasts, it extended language and and graintenal vasions, the search Every engine break the employed to render the people of this country national. . . and to inspire them with the print of unifound changes.

Where the 1785 speller had systematized the British-received forms, Webstee now see and to create a purely American system. He started by writing A Compendious Dictionary of the English Language (2606). Although later dusarfed in importance by his famous American Dictionary, this certifier work introduced spelling innovations and was passibly the first English dictionary symbolers to observe as observed That is, it

treated J and V as sovereign letters, the 25th and 26th. Prior lexicographers, particularly the influential Samuel Johnson, had admitted only 24 letters, giving no dictionary heading to f or V but treating them as variants of I and U. (See pages 194–98.)

Without management and dayage sun his reconversely remotive an English Language (Eds.), published when he was re. For it, he quest and was 2 years in randy and artisting, including alleving into one or so moders and ancient languages in years of English was repossible, plus a veryue in he litherine of Engrage ang et Comprehensive and sy to date, if intensities in spellings, the decisionary applied the antibutation reference as I before a foresting configuration of the decisionary applied to whether the english from British desirations, it tall well set us not interestine, and the applied from British desirations, it is all well set us not increase, and the applied from British desirations, it is all well set to use to faculty and addition (142), which was an uncertainft between theory the Willer and its 142, fair milly and the look right to the worker Congreg and Charles Meritian, of Syringfeld, Manuachaum.



"... the last time the saw them, they were trying to put the Dormouse into the tospot." The final words of the "Mad Tos-Party" chapter of Lewis Carroll's Alice's Adventures in Wonderland are illustrated in one of the clasic John Tenniel pen- and- ink drawing that accompanied the original edition of 1865; Assisting the Dormouse here are the March Hare and Mad Hatter. Is it our imagination, or does the position of the three characters suggest the shape of an MEA well as baving a prominent place in the chapter title and two characters imans, M receives a mysterious mention in the chapter's dialogue.

## PRIMORDIAL M

a-ma-ma-ma-ma How many parents remember that sound of baby talk? Numerous studies confirm that ma is among the earliest rudimentary speech noises made by infants the world over. Like B and P (which also have a place in baby vocabulary), the M belongs to the category of consonants known as labials, from the Latin word for "lip." Formed at the lips, with no tricky use of the tongue and no need of teeth, the three labial sounds are simple enough to be spoken by infants as young as age two or three months. By contrast, sounds like "j," "v," or "sh" may not emerge consistently until much later, for while a child learns to recognize many adult-language sounds during her first six months, she can manage at the start to imitate only a few. (See below.)

When a baby says ma-ma, that doesn't have to mean "mother." It may be prattle or it may mean something in the child's personal language: This writer had a year-old daughter who would say mama-ma to communicate, "I'm hungry," (Her mother meanwhile was called da, and I was da, too.) Yet because of its powerful kiddy connection, the syllable ma or similar has denoted "mother" in diverse languages through the centuries. That is to say, the ma-mama of infant speech has imposed itself-partly through its pleasant association—on adult speech around the world.

#### THE BABY LANGUAGE OF GROWN-UPS

### Aspects of World Languages May Be Colored by Baby Talk

Babies in their first year of life learn to speak-first in baby talk, then with the rudiments of a genuine vocabulary-by imitating the speech sounds they hear around them. (Often these sounds are addressed to the baby in an exaggerated, singsong form-"How did you sleeeep?"-which apparently helps the child to learn.) But some scholars have long theorized that language in the nursery is partly a two-way street and that certain familyrelated words of English and other tongues were formed originally, perhaps prehistorically, in imitation of baby talk, Such words are easy for babies to pronounce, perhaps at parental prompting-"Say dada"-and so the words retain a secure place in the language.

What are these words? While they vary from language to language, in English they would be some of the "ba," "da," "ma," and "pa" words.

The earliest speech sounds out of an infant's mouth, sometimes as early as the second month of life, might typically be pure vowels: The sounds "ah." "ee." and "oo" are said to predominate among babies the world over, with "ah" the earliest and most frequent. The infant's next

Just look at the "mother" words in a handful of languages that here nothing to do with each other, that are linguistically and geographically separate. There's Mandarin Chinese ma, Hindi maa, Hindi

Of the above-mentioned languages, Hindi belongs to the large Indo-European language family, which includes English. Within the Indo-European group, ma meaning "mother" is pervasive. Modern scholarship has long theorized that the original

step, usually begun before four months of age, is to float a consonant sound in front of the vowel: ma-ma-ma or similar, the sound of pure baby talk.

But not every consonant is within the halp's reach: Certain pronunciations like "hi" or "j" may take years so master, even for a child who perfectly understands them. In English, as in many other tongues, the earliest consonant sounds to be uttered consistently might belong to the labial, alveolat, or velar categories—"h." "m," "p," "d," "t," "g," or "k"—doated on wowled like "hi" and "oo."

Here some linguises find the ultimate origins of such adult English words as "manus", ""pupa," "doddy", ""pupa," "doddy", "" for word off "baby" derives officially from medieval French she's, probably from late Latin skade. But where did Latin skade come from "Surely from an imitation of baby talls. Meanwhile, similar-sounding words in other languages have their own family connections. A doubt in Russian is a grandmother; in Swahili, a father. A father in Arabic is also, not so difference sounding from dosh. And in the language of the Eastern European republic of Georgia, a father is our old friend manus... while a morber's to dod.

Indo-European tongue of around 4000 B.C. had a word for "mother" that was something like mater (mah-tair). From this root come similar "mother" words in dozens of Indo-European descendant languages through the ages—including English, with its word "mother."

Compare, for example, ancient Sanskrit mat; ancient Greek meter (may-tair), modern Farsi madat, Irish máthair, Russian mat (max-eh), Polish matha, Czech matha, Dutch moeder, Danish moder, and ancient Latin mater (mah-tair), From the Latin are derived such moedern Romance words as Spanish madar, Portuguese mae, and French mère as well as the English adjective "maternal." Our word "mother" comes from Old English modar, related to the above-mentioned Dutch and Danish words and to German matter (moo-tair). The German version may perhaps bear on a quip by the 1920s and 3 so American author and Algonquin Round Table wit Dorothy Parker: "A gift best friend is her mutter."

The origin of the Indo-European word mater may lie in the related Indo-European word mamma, meaning a mother's breast. Where that word came from, we can guess—prehistoric Indo-European babies who said ma-ma-ma-ma, perhaps measing "mother" or even "I'm hungry." From this root word mamma come similar words for "breast" in Greek, Russian, Lithunnian, Irith, Welsh, and other Indo-European tongues. But the most influential derivative has been the ancient Latin mamma (again, meaning a mother's breast), which supplies our words "manmary" and "mammal." A mammal is an animal of the class that suckles

You have so marvel at the strength of the association of ma with mother. True, all of the Indo-European "mother" words come from the same root, which might suggest they're bound to sound similar, yet most words don't remain so much alike, from one Indo-European tongue to another, down the millennia. Words for "waer" or "home" don't rend still dear annoe Hindi, Greek, German, Spanish, etc. Words for "mother," by contrast, have staved in line with the sound ma or mat and have even spawned duplicates like French maman or English "mommy," "mamma," and "ma"words that obviously are based on baby talk.

The letter M, thus representing a primordial sound of human speech, has been a member of the alphabet from the start. Letters believed to be M's appear as vertical wavy lines in the world's oldest extant alphabetic writing, the two rock-carved Semiticlanguage inscriptions at Wadi el-Hol in central Egypt, from about 1800 B.C. Scholars think this letter was called mem, meaning "water" in the users' Semitic tongue, and that it took the "m" sound with which its name began. Like all early letters, mem was also a picture, the wavy lines clearly suggesting water. The styling of the letter shape as vertical, rather than horizontal, is an unlikely choice that offers a clue to the date of the first Semitic alphabet's invention: See pages 36-40. Today, nearly 4,000 years later, the waves of the original mem survive in the zigzags of our capital M.

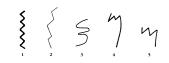
The Phoenicians, heirs to the ancient Semitic alphabet, had a mem that was more condensed in shape (1000 B.C.). Extant Phoenician letter lists show mem as their alphabet's 13th letter, just as M remains our 13th letter today.

Inscriptions from later dates show the Phoenician mem shifting in shape: The waves now run horizontally, the letter more resembling our modern M but standing on one long, vertical "leg." Probably the change helped give mem a more distinctive look.

Sometime shortly before 800 B.C., the Phoenician letters were copied by the Greeks. Mem, representing a sound just as basic to the Greek language as to the Phoenician, was ushered into the newly made Greek alphabet, keeping its zigzag shape, "m" sound, and 13th alphabetical place, but now with a Greek-styled name: mu. As with all early Greek letter names, the name mu meant nothing in Greek, aside from signifying the letter. The "water" reference was left behind in the Semitic alphabets.

Carried to Italy in Greek merchant ships in the 700s B.C., mu and the other Greek letters were soon copied by the Etruscans (700 B.C.) and, from the Etruscan alphabet, were copied by the Romans (600 B.C.). Under the Romans, the zigzag letter eventually settled down onto two even legs: our familiar M shape. In this form, it was bequeathed to European writing after Rome's fall (A.D. 500).

The letter's name during the late Roman Empire was probably something like "emmay," much the same as in modern Spanish. In passing from late Latin to Old French to medieval English



(1) Egyptian hieroglyph depicting water, 2000 B.C. In Egyptian picture writing, it meant the word "water" or the sound "n" or had other meanings when used in combinations with other pictures. Normally drawn horizontally, the water symbol instead appeared vertically during one Egyptian era, around 2000 B.C. At that time, Semitic foreigners in Egypt copied the symbol to supply the letter M for their newly created alphabet. We believe the inventors called their letter mem., meaning "water" in the Semitic tongue. (2) A mem from the Semitic inscriptions at Wadi el-Hol, the world's oldest known alphabetic writing, from about 1800 B.C. While imitating the Egyptian hieroglyph in appearance, the mem had its own, different meaning: It denoted the "m" sound that began its name. (3) Phoenician mem of about 1000 B.C. The compact, curly shape slightly resembles our script m lying on its side. The name mem was still understood as meaning "water." (4) Another Phoenician mem, of about 800 B.C. The Phoenicians had by now changed the letter shape, to make it simpler and more distinctive. (5) Greek M letter, the mu, from an inscription of about 725 B.C. Mu copied the Phoenician mem in shape, sound, alphabetic place, and name.

#### Ma-M

The candisc called MSMM—chocolate pellets in thin sugar shell—are named for their internote, Forrest Mars (around 1340), and for the Mars candy company that he founded. A phonetic respelling gives us "Eminem," name of the controversial white rap star who was born as Marshill Marhers. While the name obvoisuly refers to the rapper's dislibetool intails, it may also betoken a sincere belief by him that exentially, like the candy, he is brown (in other words, Black) on the inside.

(with the Norman Conquest of England in 1066) and thence into modern English, "emmay" became shortened to "em."

Our lowercase m derives simply from the letter's rounded shape in the late Roman pen style known as uncid, emerging around 300. During the Middle Ages, this m shape contributed to a religious idea that God has written the human name upon our free: The nose, reyebrows, and checkbones form an m, and the eyes form two letters o within the m. Our face is thus readable as "omo" or Latin knows, "human being."

As mentioned, M belongs phonetically to the category called "labials." But, like most consonants, it falls also into some second category. M's other classification is as a "nasal"—to pronounce M, you send air up into your nasal cavity from the inside and use your nose as a sound box. (In English, M and N are the only two nasals.)

Ms flowing sound has been attractive to the poets, John Milhorsh phrase, quoted back on page 317, "liquid lapse of murmuring streams," relies equally on M and L for effect. A more sonorous M contributes to the famous opening words of Vergil'S peip coem in Lain, the Aenid, concerning the adventures and battles of the hero Aeness, legendary founder of the Roman race: Arms srimmeyer cam . . . . | Sing of var and the may



(d) Earth forman M. from about 20 & C. The learn shape had been capied from the Erracase version, which had been capied from the Crost (d) Bosman M from the forman Tigoin to extraption of A.D. 12. This mature shape would become the model for the capital MI of the Tomans" preferred of only print, amound 1470, 160 MM from a Lain measuries in the wanted heratherizing typle, from Italy, around 4470, 160 km from a Lain measuries in the wanted heratherizing typle, from Italy, around 4470, 160 km from a Lain measuries in the wanted to a part of the earliest flower-lowerene learn they are owney from European headardizing of the firm illemants A.D. (d) Am in the Cardingian minimized parts of from a Lain measuriest earliest from illemants A.D. (d) Am in the Cardingian minimized parts (from a Lain measuriest period later holy in suprime subsymmetric lowerson whape.

Vergils M conveys danger and grandeur. Elsewhere, M has conveyed danger and mystery, perhaps due to the word "mystery." No movie title is more grabbing than Dial M for Minder, Alfred Hitchcock's 1954 classic thriller about a husband's plot to kill his minocent wife. Soc Grafton's alphabetically hited detective novels have contributed not only M Is for Malite (1996) but also their heroine's name Kinsey Millhone. The evil antagonist in J. R. R. Tolkien's Land of the Ringe fantasy trilogy (1954–53) inhabits a dark realm of power called Mordor—a word that, not coincidentally, means "munder" in Old Enolish.

Arthur Conan Doyle, in his Sherlock Holmes tale "The Adventure of the Empty House" (1903), characterizes M as the letter of villains. Holmes, hot on the trail of murder and perfidy, sits in his study with the loyal Dr. Watson and consults a selfcompiled "index of biographies," a catalog of bad guys. Chief among the indexed M's is Holmes's nemesis, evil genius Professor James Moriarity. But tonight's antagonist is someone else, "the second most dangerous man in London" Watson parrates how Holmes

turned over the pages lazily, leaning back in his chair and blowing great clouds of smoke from his cigar.

"My collection of M's is a fine one," said he. "Moriarity himself is enough to make any letter illustrious, and here is Morgan the poisoner, and Merridew of abominable memory, and Mathews, who knocked out my left canine in the waiting-room at Charing Cross, and finally, here is our friend of tonight."

He handed over the book, and I read . . .

### Ah, but enough said.

In the 1950s and '60s, long before anyone had thought up the parodistic Austin Powers, the fictional British super-spy James Bond was the hero of Ian Fleming's novels of intrigue and adventure. Bond has a crusty boss known only as M, although somewhere identified as one Sir Miles Messervey. The use of the initial creates cloak-and-dagger secrecy and a hint of ennobling symbolism: Motherland? Mission? Mankind?

But the most enigmatic M in literature appears toward the end of the "Mad Tea-Party" chapter in Lewis Carroll's Alice's Adventures in Wonderland, where the yawning Dormouse tries to tell a goofy tale about three little sisters learning to draw, " 'And they drew all manner of things-everything that begins with an M-

" 'Why with an M?' said Alice.

"'Why not?' said the March Hare.

"Alice was silent"

Letter N gets the imperial treatment on the bottle-neck label of Newman's Onen salad dreving, a line created and owned by movie star Paul Newman. The letter is framed by two olive branches, appropriate to salad oil, yet referring, too, to the ceremonial garlands worn by rulery—also by

victorious athletes, honored poets,
actors, etc.—in ancient Greece and Rome. Fitted to the
person's head, a garland consisted of leaves of laurel or oak
or of other trees or plants (olive, myrtle, celery, ivy) sacred
to the godd. The Neuman N seem deliberately to recall
Napoleon Bonaparte, Emperor of France (1804–15),
whose court imagery included painting and relief carrings thowing a large N bordered with a Caesar-like garland.

### NASAL N

oses are needed for pronouncing the N. To prove the point, say that phrases while plugging your nose with your fingertips. You'll hear something halfway to "Dozes are deeded for prodowsing..."

Like M, the N is classified as a "masal," a consonant pronounced through the nose. M's nasal component is demonstrated in an experiment mentioned back on page 72: Plug your nose for "My mommy meets me," and it comes out a bit like "By bobby beets be."

N and M are the only nasals in English. To say N or M, you actually drop your uvula to divert airflow up into your nasal cavity from the inside, so that your nose acts as a sound box.

You may do this hundreds of times a day, without ever thinking of it: It's one of the tricks your brain learned while you were an infant in the cradle, preparing to imitate the speech sounds you heard around you.

The "m" sound is formed at the lips, so simple that fourmonth-old babies can say it. "N." more complex, sets the tongue against the palate. The tongue position for N is surprisingly close to that for L, vet N's sound is far more like M's, due to the nose factor

Since ancient Rome, scholars have noticed how certain letters in the alphabet seem to pair off, resembling each other in shape, name, and/or sound. Such pairs today include C and G, B and P. and S and Z. Typically, these couplings can be traced as developments within the ancient Greek and Roman alphabets; they seem to reflect a human need for association (visual or verbal) as an aid for memorizing a list like the alphabet.

Two letters could hardly be closer than N and M, fraternal twins in shape, name, sound, and positioning. Together they form our alphabet's center, with 12 letters on either side. The resemblance in shape is noteworthy: Basically, N is a three-quarters M,

The Phoenician letters mem and nun, "water" and "fuh," the ancestors of our M and N. from an inscription of about 1000 B.C.

and the two letters have had this sort of visual kinship since at least ancient Phoenician times, 3,000 years ago.

Most of N's life has been lived in relation to M. As the prior chapter recounts, the 13th letter of the Phoenician alphabet of 1000 B.C. was the wavy-lined mem, ancestor of our M. The name mem meant "water." The Phoenicians' 14th letter was their N. called nun, meaning "fish," Yet the shape of nun was a serpentine undulation, not at all suggesting a fish, aside from an eel.

Modern scholarship has determined that N was invented (by Semitic soldiers or laborers in Egypt) through copying of an Egyptian hieroglyphic picture of a snake. The shape of the Semitic N looked like a snake. (See page 243.) The attested letter name "fish" therefore becomes problematic.

In ancient Semitic language, one word for snake was nahash, which began with the sound "n." By the rules of ancient Semitic letter names, this would have been a perfect name for a snakylooking letter that took the "n" sound. So why didn't the early alphabet users just call their wiggly N letter by the name "snake"?

The answer may be: They did. They did perhaps call the letter nahash at the start, around 2000 or 1900 B.C., but later the name got changed-for the sake of M. Perhaps, in the centuries after 1900 B.C., a need was felt to bring the letters M ("water") and N ("snake") more into line with each other, on account of their unique nasal factor. The two letters had been placed together in sequence probably at the alphabet's invention; now they would develop even closer associations. In these centuries, the N letter grew more to look like the M letter. And if N's name had been "snake" (as is theorized), then it now changed to "fish," to better fit mem's "water." The purpose of such associations would have been to supply a memory aid for Semitic children learning the alphabet: In the letters' sequence, "fish" would follow "water," the two letters looking and sounding rather similar.

#### SOMETHING FISHY IN THE EARLY ALPHABET

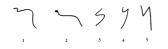
The Phoenician letter dalet, meaning "door," about 800 B.C. Not much of a door: Was the letter shape at one time a fish?



If the Semitic N letter did undergo a name change from nathout female; to now (fish) during the second millennium S.C., that fact might shed light on another mystery of the early alphabet—namely, why the Semitic D letter, named 'door,' had such an undoorlike shape. As thorsized back on page sy, the Semitic D letter, named along the state of the state of

When the Greeks copied the Phoenician alphabet, around 800 n.C., they maintained the close relationship between N and M. Phoenician mm became a Greek letter called m., taking the sound "n." while Phoenician mem became Greek mu, with the sound "n." although the Semiti-enjauge "water-fair" connection was necessarily lost on Greek ears, the Greeks Greged their own link between the two letters by giving them thyming names. Greek mu seems to have been named for mc otherwise, why not just convert the Phoenician letter-name mem simply to a Greek form like mems? And so ancient Greek children, learning their alphabet, had the advantage of an associative jingle between the Mard Netter of the control of the contr

After the Greek letters reached Italy in the 700s B.C., the use-



(c) Eggins make hirrefglis, 200 n. C. A und in Egginsta writing, this pitters means the word 'tode' what allow branching in uniform context. The nath figure unable to quite by a word 'tode' what there meaning in unique's context. The nath figure unable to quite by Smitter (five in lost, not in meaning in supply one of shows 2 picture learns of white meabers adaphabet. (2) Smitter and learning printing year. Cymn a unae-card dusciption in word water learning printing year. The supplementary of the context of

ful mu and mp passed into the Etruscan alphabet and thence into the Roman. In Etruscan and in early Latin, the two elters were perhaps called me ("may") and ne ("nay"). By the late Roman Empire, their names in everyday Latin were probably being pronounced as "emmay" and "enany"—the forerumers of their modern English names, (For the Romans' naming of liquid and frictative consonants generally, see pages 126–27).

In modern English, the humble-seeming N is a surprisingly high performer: It is among our most frequently used letters in print, placing about fifth or sixth, after E, T, A, and O or I. Being a common sound in words from Old English, N benefits particularly from its standard use in our verb forms (seeing, seen) and as a cuphonic buffer alongside A, as in "an ostrich" or "amaerobic".

Also, uses like "and," "not," and "-n't" put added wind in N's sail.

Because it abbreviates the Latin word for "number" (numerus), the symbol n in mathematics traditionally means a number that's indefinite, that could be any number:  $0 \times n = 0$ . We employ this



(1) An arth Drawan N Inter. Amus 160 N.C. It completely initiated the Greek nas in hope, sound and alphabetic reporter. This there fine objection of a right-solely line straptise. (2) An early Reman N. And plaine flythward from an increption of loads in particular than the complete of the Drawan has now gene simple in shape. (3) Roman N From the mathe-arreed Topian Interprition. A.D. 115. A to such shape. (3) Roman N From the mathe-arreed Topian Interprition. A.D. 115. A to such the such all handwriting riple, from a Latin Palare of the east A.D. It sus laxified by the such all handwriting riple, from a Latin Palare of the east A.D. It sus laxified the forman optial halps adapted up not and line. (3) The happ of your bearnes in sus one of the late as area from medicula bandwriting being introduced only around 80m a part of the late as area from medicula bandwriting being introduced only around 80m a part of the late as area from medicula bandwriting being introduced only around 80m a part of the late as area from medicula bandwriting being introduced only around 80m a part of the Landaugus methods (4). This cannot be such that distractive and interaction of the Landaugus and the late posible englesion with misseade. In m. et a. Tadag in many popis's handwriting, even with prine-shape latters, the n ermants hard to distrance with a surface handwriting, even with prine-shape latters, the n ermants hard to distrance. in common parlance when we speak of something "to the nth degree."

N: A Romantic Mystery is an enjoyable 1997 detective novel by an African American author, Louis Edwards, set in New Orleans. The title plays intelligently on our ugliest N-word as well as on "noir" (as in film noir) and "new." "Make it new," says a wellknown verse and a book title (1934) from American poet Ezra Pound To make it new let's now move on



The letter O's inviting shape is well served in this illustration from an 1845 fiction collection by French author Honoré de Balzac, titled Petty Annoyances of Matried Life, published in Paris.

### THE STORY OF O

Jerusalem. O Canada. Oh, say, can you see? O for a Muse of fire. For centuries, the robust O has conveyed emotion and demanded attention in verse and oratory. It is perhaps our most expressive letter, and one of our hardest working. While all five of our full-time vowels are essential for writing English, O ranks near the top, as a letter heavily relied on and individually esteemed.

Among O's feature points are: (1) its many shades of pronunciation in English; (2) its uses as a word unto itself; and (3) its beautiful written form—a circle, a ring, intriguing and satisfying to the eye. O is the only letter whose name creates its shape, however imperfectly, on the speaker's lips.

According to certain analyses of English-language print, O averages fourth place in frequency of use, below the letters E, T, and A. A disadvantaged world without O is amusingly imagined in James Thurber's 1957 children's book, The Wonderful O, about pirates who land on an island called Ooroo and, offended at the inhabitants' lack of treasure to steal, tyrannically expunse their patron letter "And so the locksmith became a lcksmith, and the bootmaker a btmaker . . . Books were bks and Robinhood was Rbinhd." The island's language and society are shaken-"A swain who praised his sweetheart's thrat, and said she sang like a chir of riles or a chrus of vices, was slapped"-until, finally, good prevails. Theoretically, our alphabet could use a few more vowel let-

ters, to better show shades of sound. This need is clear with O. The Oxford English Dictionary lists seven possible O sounds, as in: no, got, glory, north, do, son, and word; plus others in combination with a second letter; boy, now, good, fool, favor, and (depending on where you live) cough.

Vowels carry most of a speaker's regional accent. O is particularly impressionable this way. To an outsider, an Ulsterman's "now" sounds like "nve," an Ontarian's "about" like "abewt," an Australian's "notes" like "nayts," a New Yorker's "dog" like "doawg." There's also George Bernard Shaw's unforgettable phonetic rendering of the word "don't" as pronounced, circa 1900, by a London Cockney: "daownt."

O's many pronunciations hark back to our language's development in medieval England after the Norman Conquest of A.D. 1066, when new vowel sounds arose from the brew of Old English and Norman French, Adding to O's duties at the time was a Norman preference for spelling with O in place of U, so as to give written English a more Norman French look (although not necessarily with any change in pronunciation). Among many examples, Old English sum eventually became "some" (while Old French summe, a different word, supplied our "sum"). Old English sunu (pronounced "sun-uh") got changed to sone (still "sunuh"), later shortening to "son." And Old English lufu ("luv-uh") eventually made "love."

To understand the medieval Norman thinking here, compare the spellings of two modern words-our "bun" and modern French bonne (a form of the adjective "good"), pronounced exactly the same. Such overlaps in sound provided a rationale for substituting O for U in many (not all) medieval English spellings.

This Frenchified O has contributed to one of the most confusing aspects of English spelling, namely, our regular use of O or U for several of the same vowel sounds. The classic example is son/ sun, yet there's also loot/lute, cost/caustic, and word/curd/bird/ herd-all multiplied by hundreds or thousands of occurrences. O's dilettantism here has troubled many thinkers, including the English educator Richard Mulcaster, whose 1582 grammar book. The First Part of the Elementarie, contained the first-ever English spelling dictionary. "O is a letter of great uncertainty in our tongue," Mulcaster notes, for "it soundeth as much upon the u, which is his cousin, as upon the o, which is his natural."

Strictly speaking, O's proper English sounds are the short O of "bob" and long O of "bone." Linguists call these the low back vowel and high-mid, back vowel, respectively, in reference to the tongue's position in each case. The short O of "son," meanwhile, is the low, front vowel, a sound equally belonging to U.

Our interiection "O" (always capitalized) is a variant of "oh," normally reserved for expressing a wish or calling on some concept or ideal entity, not a real person.

Shakespeare was perhaps overfond of it: "O curse of marriage" (Othello); "O brave new world" (The Tempest); "O that this too too solid flesh would melt" (Hamlet). The word entered medieval English in literary imitation of an interjection "O" that existed in ancient Greek and Latin writings. (The Romans had copied it from the Greeks.)

Prior to Shakespeare, probably the best-known O of Western literature occurs in a famous speech by the Roman statesman Cicero, delivered to a packed Senate chamber in November 63 B.C., for the purpose of exposing a plot, by a senator then present, to overthrow the republic, murder Cicero, and seize supreme power. The bad guy's name was Catiline, and Cicero's speech, one of four in the course of several days, is sometimes called the First Catilinarian. Among its opening words is a deathless phrase of controlled outrage: O tempora, O mores . . . (O the times, O the customs,)

The one other famous O of Western lit belongs to Shakespeare, although in use not an interjection but a description. The martial history play Henry V, which premiered in London's Globe theater in spring or summer 1599, features an opening speech, addressed to the audience by a narrator character named Prologue. He begins with the words "O for a Muse of fire." but that actually isn't the point right now; Prologue then urges the audience to use their imaginations to fill out the on-stage scenes of royal courts, army campaigns, and the famous Battle of Agincourt (1415), Referring to the theater building around the stage, Prologue asks rhetorically:

. . . Can this cockpit hold The vasty fields of France? Or may we cram Within this wooden O the very casques [helmets] That did affright the air at Agincourt?

Among its other virtues, the passage supplies modern scholars with evidence (more recently corroborated by archaeology) that the Globe Theatre was an "O," that is, it was shaped like a short stack of doughnuts. The center, open to the air, was partly the stage platform, partly ground seating for some of the audience; around the center, the tall wooden structure held galleries of seats and (behind the stage) the stage house. The whole "wooden O" business is well handled visually in the opening sequence of Laurence Olivier's 1944 Henry V film version. Today an O-like replica of Shakespeare's Globe stands in south London, 500 yards from the original site.

The story of O's distinctive shape begins in ancient Egypt, with the painted image of a human eye. An eye was one of the symbols of Egyptian hieroglyphic writing. There were several variations, the simplest being a long, horizontal oval with an interior circle. This hieroglyph denoted the word "eve" or other words relating to vision, and might have other meanings besides.

Around 2000 B.C. Semitic soldiers or workers in Egypt invented the world's first alphabet by copying about 27 hieroglyphic pictures and giving them the meanings of tiny speech sounds. The distinctive eve symbol became one such letter: The Semites apparently called it ayin, meaning "eye" in their language.

Like all ancient Semitic letters, ayin was a consonant: It took a guttural sound, a harsh throat catch, used in Semitic speech and existing today in spoken Arabic. The sound actually occurred at the start of the name ayin, but this fact is awkward to show in English transliteration (we have no letter for it) and is usually omitted from our spelling of the name.

Over the next millennium in the Near East, 2000 to 1000 B.C., the avin's shape simplified: from an oval eve to a circle with a central dot, then to a circle merely. In the Phoenician alphabet of 1000 B.C., avin stood as the 16th letter. In shape, it was a simple circle, basically the same as our O.

When the Greeks copied the Phoenician alphabet sometime around 800 B.C., they had no need of the ayin's guttural sound, foreign to their speech. As with certain other extraneous Phoenician letters, the Greeks held on to ayin in regard to its shape and alphabetic place, but they reassigned it to one of the vowel sounds (which were not shown in Phoenician writing but which Greek writing needed to show so as to be comprehensible). The circular avin received the Greek vowel sound "o," lust possibly, this marriage of shape O and sound "o" was prompted by the letter's shape, which suggested the shape of a speaker's mouth saying "o." Representing both long- and short-O sounds, the Greek letter

staved at place number 16 in the alphabet. For its first 150 years or so, the letter was called probably just o.

Around 660 B.C., Greek writing invented a second O letter, to specialize as the long-O sound; its shape was an O "broken open" at the bottom: Q. Placing the newcomer at the very end of their letter row, the Greeks called it o mega or omega, meaning "big O." Their 16th letter, now confined to the short-O sound, became known as o mikron, "little O." (In English, the name is usually spelled omicron.)

Today omicron and omega live on in the modern Greek alphabet. Both names have also gone into English-language marketing and name-branding, but of the two, omega thrives especially. With its elegant shape and its suggestion of "the last word" or "ultimate craftsmanship," omega has been put to work representing a line of expensive Swiss watches, as well as camping pear, nutritional supplements, and paintbrushes.

The other O. Being the last letter invented by the ancient Greeks, omega (meaning "big O") stood at the very end of the Greek alphabet. Its place as the "Z" of the Greek letter list is commemorated in the biblical book of Revelation, in a phrase cited back on page 13, "I am Alpha and Omera, the besinning and the ending, saith the Lord," Since the days of the Roman Empire, the paired Greek letters alpha and omesa. A Q. have composed a Christian religious combol.





(i) Egyptian bringly of an  $\rho_{ij}$  von 8. L. In bringlyshic writing, this jitter demand the world with the state of the s

Meanwhile, in the 700s AC, before omego was born, the Greek alphabet had reached Italy, with only one O letter. The Etruscans of Italy copied this alphabet to create their own (700s AC.). The Etruscan letters, in turn, were copied and adapted by the Romans (600s AC. and following). The single O, representing both long and short sounds, became a Roman letter and eventually was bequeathed to us. Today, O is our 15th letter. Like most vowels, it takes its English manse from its basic long sound.

O's simple, pleasing shape has barely changed in 3,000 years, since the early Phoenicians. During the century before Christ, the Romans, in monumental inscriptions carved in stone, found ways to subtly taper and widen parts of the letter, giving it a suave, ribbonlike look that we often use today. During the Middle Ages, certain handwriting swless made O more source or dis-

mond shaped or (for a fancy initial capital) gave it ornamental crossbars. But these variations didn't stick. No alternative could improve on the beauty and convenience of a plain circle, and so the old Roman capital shape remained basically unchanged in medieval ink styles like uncial (from about A.D. 300) and Carolingian (from about 800). No abbreviated shapes were explored to eventually supply a model for early printers' lowercase letters; instead, capital O supplied the lowercase shape. Todav. C. S. V. W. X, and Z share with O this distinction of having closely the same shape for upper- and lowercase in most typefaces.

O resembles our zero symbol, 0, but that's by chance. The zero, as first written in Hindu and Arab lands during the early Middle Ages, was a tiny circle or dot, smaller than other numerals and used for holding place in computation. A larger zero emerged in European handwriting by about 1400, through the custom of keeping characters at roughly equal size; this letter-size zero became a print form by the late 1400s. In modern typefaces, zero's sign tends to be more elongated than O.

With its inviting visual associations-doorway, porthole, offered lips, push button-O has enjoyed a prime place in product names, signposting, and the like. At the "Tunnel of Love" amusement park rides of the 1920s to 1960s, you might be conveyed into the dark interior through the huge letter O of "Love." The celebrated early 1980s Manhattan restaurant Odeon (familiar from the cover painting and storyline of Jay McInerney's 1983 novel, Bright Lights. Big City) surely owed some success to the look of its name on its Art Deco neon sign, with two beckoning O's, Other examples include the appliances Veg-O-Matic ("It slices, it dices") and Ice-O-Matic, with names that verbally mimic the word "automatic" but visually use O to suggest push-button ease.

By far the best example of a recent commercial O is in the remarkably successful women's lifestyle magazine copublished by TV talk-show personality Oprah Winfrey, Officially titled O. The

### MAD of of a second

## Villa Surbs

### OFFERED FOR SALE

by the

# Rutherfurd Heights Association

WJ.

By its placement and design, the O of "Offered" seems to invite a bid, or at least a look, in this sales power from an 1870 American collection, Coopley's Plain & Ornamental Standard Alphabess. Note the different type tyles: the traditional "roman" lettering of "Buthersfund Heights Association" and the early sam-serif forms of "Offered for Sale."

Opuh Magazine, but more casually known as "O magazine" on Opuh Magazine, this monthly has hit a steady paid circulation of nearly 2.3 million since its launch in the year 2000. Without doubt, one small ingredient of its appeal has been its O—that is, its clever name and logo, drawn from Opuh's fortulous initial but deftly handled, visually, by the magazine's designers. The cover logo is a large, white O, in the classic but emphatic Bodoni typefec (see page 2-50), et againt as old retearling of color, the color changing each month. Dignified yet friendly—like Oprah's image, which appears in a different photo on every cover—the O seems to invite the reader through a portal of (self) discovery.

Which brings us to the hidden source of O's commercial



(1) Roman optial O from the formus Trijan Interription, A. 173. Expertly careed in marble, the O days of Hisport Roman Interring Anterol a lovely, ribbothic low, white Spertly are not as pass and known, which would set the standard for all madern erelly time (O; (2), in block O) in mind Interring from a Lintin Harder Orde that are not. The Robert Distance for the contract of the contract of the contract for the

strength: its subliminal vaginal reference. Oprafs O appears to send at least a "women's own" message. Further along in this direction is the unabashed title of the women's how-to book. The Big O, subtitled Organus: How to Have Thom, Give Thom, and Keep Them Coming, by sex educator Lou Paget (2001). The lettering the book cover features a big O that—but you get the idea.

O likes male attention, too, of course. This writer won't soon forget the T-shirt message "Dyn-O-Mite" associated usually with expensive denim shorts and cork-heeled sandals, as worn by young women during Manhatan summers of the 1970s and early '80s. For me, the lettering could have said "tOrment."

The mother of such sexual O's is the 1954 French pornographic fantasy novel *The Story of O*, by Pauline Réage. With a despairing view of female destiny, the story follows a young female Parisian fashion photographer known only as O, who cooperates in being systematically degraded by her boyfriend and others. Her name is meant to illustrate a woman's sexuality, a slave's fetter, and, finally, a worthless zero. The novel, once respected as a kind of feminist wake-up call, is now more often seen as exploitative trash. Yet we still talk about it.

The Sury of O has a theme of male-to-female sadism, which oday colors the letter O, at least potentially. In certain circles, O can be a coded symbol for bondage, fetishism, and similar dark preoccupations. Among several examples is a German magazine named O, subtitled (in translation) The Art, the Fushion, the Funday; Distributed also in the United States, this O magazine focuses on fashion aspects—leather garments, high-heeled boots—of what might be called the feith to bondage scene.

What makes German O noteworthy is that (at this writing) it so n a deliberate collision course with the ocean liner of Oprah's O. The German businessman who publishes the fetshist O has used the corporate publishers of Oprah's magazine for trademark infringement, on the grounds that through prior publication he owns the U.S. trademark for a magazine named O. When first filed in 2001, the Luswatt inspired as tickled-pink New York Times editorial titled "Legally, the Alphabet Int's a Simple as A, B and C." its opening words: "Who owns the letters of the alphabet?"

German O's lawsuit has since received a tentative spanking from a Manhattu U.S lixtiret Court judge, who in 2024 deried a motion for a preliminary injunction (namely, Oprah's O to suspend publication for the case's duration). The judge ruled that the two magazines are dissimilar enough to avoid consumer confission. But a preliminary ruling is not a final weeklet, and a courtroom showdown is promised for sometime in 2009.

Traditionally, in affectionate written correspondence, O's beneath the person's signature have meant hugs, complementing the X's of kisses. Taking a cue from this charming custom, let's now say OOO and go.



Considered among the most beautiful of all decented letters of medieval numuscripts, an initial P begins the many scripts in initial P begins the a page from the famous Lindisfarme Gospels, written probably in about A.D. 695. The P colored in amber and light green in the original, incorporates the head of a dragon and of a seagull, as well as wherl

morifi of traditional Northern European art (familiar also from extant jewelry, stone carving, etc.). The page presents the beginning of St. Jeromé: preface to the finer biblical Gopels—that is, Matthew, Mark, Luke, and form—which follow in the numerical, Above the P. a line of text addresses 'my most blessed Pope (paps)."

The Lindifiern Google were produced at the monastery of Lindifferne, on a small island near the northeast English coast. Although it is not an original composition—the text is St. Jeromeis Latin version of the Googleh, from around A.D. 400—the manuscript gorgoom painted "illuminations" make it a treasure of medieval British art. The handwriting style is called insular majuscule, the term "insular" a reference to the monastic veriting traditions of the British and Irish islands. The salented scribe and painter was probably a mont named Edurish, who later become Bishop of Undislatene.

### PUFF DADDY P



fies the category of consonants known as stops. Stops make sound by expulsion of breath, during which the nasal passage is momentarily stopped from within; they include also B. D. G. K (with C and

O), and T. Stops are known also as plosives, a word (related to "explosion") that is built on the forthright sound of P. Come to think of it. "stop" is half built on P. too.

One other stop consonant makes a sound through the lips: B. The two letters are closely related, nearly alter egos, not just in manner of pronunciation but also in shape and name. They form one of those intriguing letter pairs of our alphabet, such as C and G or M and N. The kinship of P and B was summed up back in 1580 by the early English lexicographer John Baret (see pages 85–86), in his dictionary titled the Albearie: "This letter p seemeth by both his name and form to be of kind to b, and as it were a b turned upside down."

As Baret's wording suggests, P comes across as the relationhip's junion partner—the following or bestorted one, living in awe of the somewhat better established B and trying at times to imitate him. Their main difference in sound is the vocal cords while P does not, therefore requiring a more effortful, audible part of breath. Yet in some words, P may be heard to blur into B. for example, in "spill," which sounds closer to "bill" than to "pill." Or in "napkin," pronounced as "nabkin" im now North American accents.

Of course, P mimics B in shape, too. We can phrase it that way because that's how it happened: Inscriptions from the early centuries of the ancient Roman alphabet, around 600 to 200 B.C., show the Roman letter P gradually morphing in shape to reach its present form, persumbly in order to resemble the existing shape of B. The purpose behind the change seems to have been memorization: The Romans apparently found the two letters easier to learn and remember if they looked alike on top of sounding alike.

P and B belong also to a second category of consonants, whose the Latin word for "lip"). Labalas are easy to pronounce, as needing no fancy tongue work. They seem to have played a role in most human languages, and they are often among the earliest speech sounds from an infant's mouth: "Pa-na-na M-ma-na. Ba-ba-ba."

The baby connection of P, M, and B has been explored here in Chapter M. As mentioned, P contributes to a number of baby-related words in different adult languages; the common element may be an adult imitation of child speech. The most obvious such English word is "papa," with its abbreviated form "pa" and variance.

ants "pop" and "poppy" and alternative spelling "poppa." While these five words derive officially from Latin pater (father), they have thrived and multiplied by their aptness of sound: They mimic baby talk. Among other examples are "papoose" (from the North American Algonquian tongue, meaning a young child or a knapsackstyle basket for carrying same), "pap" (meaning the female nipple, from Old Norse into medieval English), "pap" (meaning mushy food for babies, from a Latin word), and "pope" (a title that passed into late Latin as pana, from the Greek panas, "father" or "daddy").

P in English is basically a solid fellow with very few variant sounds, aside from the occasional yearning to be B. In words like "tempt," "redemption," and "Simpson," P has an interesting half pronunciation, made possible by the preceding, similarly labial M: The P can slide quickly between M and the following letter. Elsewhere. P has gone to silence, as in "raspberry" or in our many words with Greek roots wherein the P was pronounced by the ancients: psychic, psalm, pneumatic, etc. And as every schoolboy knows, there can be a silent P in swimming.

Our 16th letter, P descends straightforwardly from the 17th letter of the ancient Near Eastern alphabet. The world's oldest known alphabetic inscriptions, at Wadi el-Hol in central Egypt, contain examples of a large letter, shaped somewhat like a thick V or downward-pointing chevron, that experts believe is the early P. The letter's name was pe, pronounced "pay," meaning "mouth" in the ancient Semitic language; the V shape was a kind of smile or expression to characterize the mouth. The pe took the "p" sound that began its name.

But the early P is better known to us from a later stage of Semitic writing, namely, the Phoenician alphabet of 1000 B.C. The Phoenician 17th letter was the pe, still understood as meaning "mouth" and still taking the "p" sound, but by now its shape had changed. The mouth figure had shrunk to a mere corner of its former self. It now looked like a candy cane, with its crook, at

top, facing leftward, Although the Phoenician letter shape in no way resembled a mouth anymore, it did suggest the beginning of what we would call a backward P (As used in right-to-left writing, Phoenician letters tended to project leftward, "backward," whereas our sproject rightward in left-to-right flow).

When the Greeks adopted the Phoenician alphabet in around 800 n.C., they copied pe closely. The letter's shape, sound, and alphabetic place remained the same in the newborn Greek alphabet, while the letter's Greek rame was tweaked to "pec" —pronounced just like our letter rame but spelled p it the "mouth" connection was by now completely lost. As with all other Greek letters, the rame pimeant nothing in Greek saide from signifying the letter.

During the 7008 N.C., the cane-shape pit traveled with other fereek letters in Greek merchant slips to lally, where it was copied into the newborn alphabet of the Etruscans and thence, around 600 N.C., into that of the Romans. At this point, as with other early Greek letters, the road forks: The Greek-derrode P letter would evolve in shape within the Roman alphabet, but so would pie evolve in shape within the Greek alphabet, "buck home." By the 3008 N.C., most Greeks were writing pi as a two-legged double-T figure, perhaps familiar to us from geometry class.

Today pi, pronounced as "pie" and shown as  $\pi$ , represents probably the most famous ratio in mathematics, namely that of a circle's circumference to its diameter—the number of times the diameter would fit atop the circle's circumference. This ratio  $\pi$  is usually approximated a 1:14 but is in fact an irrational number that begins as 3.14(592655); and has been calculated to more than 1.24 mllion decimal places (by Tokyo computer scientists in 2002), with no end in sight. The  $\pi$  owns a place in several well-known equations, the best-remembered being  $A = \pi r^2$ , or, the area of a circle coula R intens the source of the circle's radius.

The use of Greek letter pi in this way dates from A.D. 1706, when Welsh mathematician William Jones published a book that

# π

Shall we call thee "pie" or "pee"? Here is the modern Greek letter pi in upper- and lowercase, as derived from the ancient Athenian alphabet of about 400 B.C. Taking the "p" sound, the Greek letter is a close family relation of our P. The ancient Greeks probably called it by the name "pee," as modern Greeks do. Yet the rules of anglicization-whereby we pronounce foreign words' vowels as if they were English-require this letter's English name to be "pie," with an English long-I

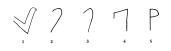
included π as the symbol for the circumference-to-diameter ratio (the ratio itself being long known from prior mathematics and variously shown). Iones's choice of ni was due to it being the first letter of the ancient Greek word periphereia, "circumference," In keeping with traditional scientific notation, he used the lowercase letter shape: T. And by the rules of applicization, the Greek letter name in English was pronounced "pie," Iones's symbol caught the fancy of other mathematicians of the day, and it stuck.

Largely through pi's mathematical association, the letter's shape and name have enjoyed a philosophical prestige in some treatments, as a sort of key to the universe. In the 1999 independent film titled T. a brilliant mathematician is on the verge of decoding human destiny and the stock market, while Yann Martel's 2001 novel, Life of Pi, winner of Britain's prestigious Booker Prize, follows 16-year-old Pi Patel, born in India, who gains wisdom through loss and fantastical adventure.

Meanwhile, back in the ancient Roman alphabet, the caneshape P letter gradually transformed into the capital shape we know today. As mentioned, the change may have involved an "attraction" to the existing shape of the letter B: The two letters, so similar in sound, thus became paired for easier memorization.

By coincidence, the Roman letter name apparently echoed the ancient Phoenician one: "pays" The Romans would have spelled it P-E, with the long E in Roman pronunciation. This was the name bequeathed to Europe's Romance languages after Rome's fall (a.p. 500), and today the letter name remains near to "pay", spelled P-E, in French and Spanish. Passing to medieval English from Old Perech after the Norman Conquest of English din 1064 Brench after the Norman Conquest of English and the general English wowed shift cullimating in the 1500s. Today we maintain the spelling of the letter's name as P-E, but we pronounce it "nee."

P has the odd distinction of being the third-most-often-used opening letter in English vocabulary. (Think: Peter Piper picked a peck of etc.) Letter S starts off the most English words, with C in



(d) Early Somitic letters probably for go, meaning "meash." From the Wall of Elds incorpions of advance than S.C. and perhaps are so any after the alphabetic invention, this letter thouse in original appear as a (primitive) piezer of a person meash. (d) Phorentiase pe, the "meash." In the contrast perhaps are personal period to the period of the section of the period of the section register and section period period of the dispersion terms Pass by an own the suit letter as a can. The letter period lefterand, for period period of the section of period period of the section of the secti

second place. Surprisingly, these three initial letters together account for one-third of all words in the dictionary. That is, a third of English words begin with an S, C, or P.

Yet, according to scholarly analysis, P was used only rarely as a beginning letter in words of Old English, during the early Middle Ages. Its proliferation since those days betokens how much our language has grown and changed, with the influx of Latinderived French vocabulary after the Norman Conquest of 1066 and of Greek- and Latin-derived technical vocabulary in the 10th and 20th centuries. (So please remember your debt, next time you hold the parasol for a photographer at a pork parade.) Among other elements in this invasion of P-words, there has been the continually expanding number of our words with the Latin prefixes pre- (as in "prefix"), post-, per-, and pro-, and the Greek prefixes para-, peri-, and pro-.

Partly due to its regrettable association in English, P hasn't had much of a cultural life of its own. Unlike its neighbor O, the P will probably never give its name to a wildly successful, mainstream, English-language magazine. There are, however, P magazines published in Flemish, Turkish, and other tongues: The Flemish contender-a kind of Belgian Maxim, for young adult males-uses P benignly to stand for "panorama."

P as an abbreviation means "phosphorus" in chemistry and "softly" in musical notation, from the Italian word piano (softly). Our piano instrument was originally, in around 1770, called a "pianoforte," from piano e forte, "softly and loudly" (describing the gradation of tone available, in contrast with the monotoned harpsichord).

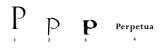
The PX, a kind of general store found on U.S. military bases, is named as an abbreviation of "post exchange." Rather different is the superimposed P-and-X symbol that appears on church stained glass, certain priests' robes, and other Roman Catholic and Episcopalian settings. Contrary to what is sometimes thought, this PX does not stand for the Latin word pax (peace)—nor are the letters even P and X. Known as the Cross of Constantine, the two letters are Greek: a khii (the X shape, sounded as "kh") and a tho (the P shape, which is the Greek R), these being the first two letters of Christos, Christ.

Our expression "to mind your p's and q's'—meaning to be careful in your behavior and observal elitiquette—hards back to the printer's trade of the 15th to the early 20th century. Metal leter blocks, bearing letter shapes in rehlef, were stored in two different cases: "upper cases" for epiths, "lower cases" for misuscules. Once removed from their case, the blocks with the lowercase shapes could be hard to identify and to distinguish from each other, especially for the similar-looking b, d, p, and q—and the more so since the blocks' letter shapes were mirror-simage versions of the actual print shapes. In setting the type and in (finally) replacing the blocks in their case, printers had to pay attention lest they confuse p with d, or q with q, to p with q, to p with q.

The P was briefly explored by American humorist author James Thurber (1894–1961), whose many works include the children's book The Wonderful O, cited in the prior chapter. Plagued by allments and eventually blindness, Thurber died at age 66 from complications following a stroke. A few months before that, he



The Cross of Constantine, named for the Roman emperor who, having converted to Christianity, declared it a state religion in A.D. 334. The symbol comprises two Greek letters, a kish and tho, shaped like X and P. They are the first two letters of the Greek title Christos, "anointed one," which provides the name Christ.



(1) Roman capital P from the marble-carved Trajan Inscription, A.D. 113. This letter shape would become the model for capital Ps of all modern roman typefaces, although the charming mannerism of the incomplete loop would prove impractical for early print. (2) Inked P in the uncial handwriting style, from a Latin biblical manuscript of the 600s A.D. While closely imitating the shape of the Roman carved capital, the uncial letter also descended below the baseline with the lower half of its bar, thus anticipating our modern lowercase letter. (1) P in the semiuncial ink style, from a Latin manuscript of the 500s, from southern Italy. This P-a "descender." like the uncial shate-seems more clearly to look ahead to our modern lowercase shate. (4) The influence of the past is apparent in the letter shapes of Perpetua, a roman typeface created by eminent British type designer Eric Gill in about 1928.

published his last book while alive, the collection Lanterns and Lances (1961), including an essay on insomnia, "The Watchers of the Night." Poignantly, the cheerful essay betrays a physical discomfort and restlessness that, unknown to the author, would culminate soon in his death. Thurber describes how, awake in bed at 3 A.M., he counts sheep by thinking about the alphabet and one letter especially. "The letter 'P,' that broad, provocative expanse between 'O' and 'Q,' is one of the most ambivalent of all the twenty-six, for in it one finds pleasure and pain, peace and pandemonium, prosperity and poverty, power and pusillanimity. . . ." In the end, Thurber finds, the mental exercise keeps him awake: "'P,' the purloining letter, the stealer of sleep, is as hard to throw off as any addiction."

Yet, pulling free of P, we now pass on.



In an illustration from his 1529 book about the letters, Champ Fleury, French type designer Geofroy Tory demonstrates on a grid the proper proportions of his

elegant, long-tailed Q. The small crosses indicate the center points of the compass strokes needed to plot the shape. The tail is O's most distinctive feature and traditionally an object of pleasure and fastidiousness among calligraphers and type designers.

## THE QUALITY OF Q

WERTY. Recognize that?
Not a character's name from a P. G. Wodehouse novel nor the name of next Christmas's buyer-frenzy toy for presturajen, QWERTY appears on a psyint's keyboard. It spells out the first six letters, left to right, in the top row of the letter keys.

Q's extreme left-hand perch reflects a quity's fact about typing: Originally the keyboard was designed to slow the typist down. Letter-wise, our familiar keyboard is basically unchanged from the earliest specimens of the 1870s, exemplified in the 1874, Remington manual typewriter, the first commercially successful one. This keyboard deliberately forces the typist's fingers to stretch to find the likely letter combinations of English. The purpose in 1874 was to help prevent jamming. The nanual-typewriter key, when tapped, would operate a long, thin "spebar," which swung up to punch its letterform through an inked ribbon onto paper. Under a skilled typist's fingers, the type-bar rose and fell in chattering profisson. But the bars of the early machines were apt to jam if the typist went too fax, or if tow neighboring keys were touched at nearly the same time. Therefore, on the keyboard, many of the frequent letter combinations of English have their keys separated, particularly by left side versus right, so as to be under different hands to the typist. The Q key is safely distant from the key of Q's constant companion—the letter U. In English, we almost never write Q without writing U next to it; thus, Q is a left-hand key while U is a right-hand one. And although technology has since banished the jamming problem, the keyboard design is too deeply enterched ever to change.

The Q is a modern success story. Previously marginalized and disesteemed, it has, since about the 1980s, enjoyed a happy reversal of fortune. Today Q is the darling of certain interest groups and marketing circles, emblazoned on our signposting and brand names.

But in the old days, to start with, Q seemed exotic, foreign, potentially strange or embarrassing. This was due first of all to its low rate of use. Q is nearly the least-often-used letter of English print, falling second, third, or fourth to last, according to different surveys. (Z comes last by most counts See the chart on page 118.) This low ranking results from Q's wasteful rivalry with C and K, as described in those letters' chapters. All three take the sound "k," but there simply aren't enough "k" 'sounds to go arouth.

In English spelling, C gets favored; K finishes a distant second; and Q specializes. Almost always, Q appears before a U and a second vowel, with the QU- usually taking the sound "kw," as in "quall," "quest," "equilibrium." Otherwise, in words derived rel-

atively recently from French, QU- may take a simple "k" sound: mannequin, antique, and the British cheque and queue.

O's problematic specialized role-problematic because we don't need it: We could easily drop O from the alphabet and spell "quail" as "kwail" or "liquor" as "licor"-has earned the wrath of thinkers through the ages. Back in about A.D. 90, the Roman grammarian Ouintilian dismissed O as "redundant [Latin: supervacual except for the purpose of attaching vowels to itself." And the English playwright and scholar Ben Jonson, in his 1640 Enolish Grammar, points out distastefully that our use of O in English spelling was imposed by a French-language invasion (the Norman conquest of 1066) and that previously Old English had gotten by fine with no Q: "The English-Saxons knew not this halting Q, with her waiting woman u after her."

Adding to Q's marginality, traditionally, has been its fancy shape, its lip-pursing name, and the fact that O tended to stand for things considered mysterious or dicey. O abbreviates the word "query," meaning "question mark"-as in "Q fever," so named because its origin puzzled doctors in the 1930s, and "O-ships," which were World War I British warships disguised as helpless freighters, to lure German U-boats. (There's U following Q again.) And Q meant "queer," in senses both of "odd" and "homosexual." Such associations might be played for laughs on the 1930s vaudeville stage or in film comedies through the 1960s: A male character with middle initial O was probably meant to signal "uh-oh" to the audience.

Caspar Milquetoast was a meek, submissive character, featured in a New York Herald Tribune comic strip of 1924 to 1953 by Harold Tucker Webster. The faux French name Milguetoast (which has since gone into common parlance to mean any timid soul) came from the mainstream word "milktoast," describing a dish traditionally served to invalids and babies. Although with no

obvious sexual reference, the O in his name helped to set Caspar apart: He was different from you and me-supposedly.

Today, however, the stigma of O is a thing of the past. As our era has grown suspicious of uniformity-remember those Apple "Think Different" ads of the late 1990s-O's offbeat aura has gained in appeal among marketing and advertising minds. Like X. Z. and a few other letters. O is now exploited for its very rarity and eye-catching power; today Q is "quantum," "quasar," "quark," "quick," and, yes, "queer," only now as a proud badge of identity. In mainstream brand names, Q seems to promise a rulesbreaking technological genius, or a cool alternative, or science fiction become reality. Witness, for instance, names like Q-Media software, Q9 website engineering, Qsound electronics, QLogic computer hardware. O hard drives, the digital O Phone, the British pop-music magazine O, the rapper Q-Tip, the Infiniti Q45 and other Q's of the Infiniti auto line. And let's not forget the distinctively misspelled Owest Communications, fourth largest of U.S. long-distance carriers, now mired in financial and legal woes. Clearing the path for such Q's of the 21st century was none

#### IOHN O. PUBLIC

In the term "John O. Public." documented in the United States since the 1930s, the Q is unexpected, puzzling. Instead of the marginal Q, we get a Q that supposedly embraces everyone. Yet even here Q is probably negative, contributing to a likely tone of disdain: John O. Public is someone unimpressive, the frequent dupe of the politicians and the rich. The 2002 movie John O. stars Denzel Washington as an angry, financially struggling factory worker who lacks sufficient health insurance to provide a needed organ transplant for his young son.

other than Bill Gates (and company), with release of Microsoft's influential QBasic computer program back in 1986. The Q (for "quick") had been kicking around computer jargon for perhaps a decade, but at that point it seems truly to have spread its wings. language-wise, in programming and marketing circles.

Meanwhile, Q for "queer," meaning "homosexual," has passed from an offensive or underground symbol of the early 20th century to an open emblem of gay interest groups and identity, "Series Q" is the gay and lesbian studies book series published by Duke University in North Carolina, Other such O's include the Wisconsin gay theater group StageO and websites with names like Planet Q, QWorld, Q-Fish, Q-online, and Q-mmunity.

Q has almost always been a dark horse, running from behind. The Phoenician alphabet of 1000 B.C. had two K letters: kaph, ancestor of our K, and apph, ancestor of O. The reason for two Phoenician letters was their subtle difference in pronunciation: In Phoenician speech, qoph represented a sound where the tongue touched a different part of the roof of the mouth than for kaph. The name goph probably meant "monkey"; the letter shape was perhaps a stylized form of a monkey face and tail: P.

Ooph was the 10th Phoenician letter. Today the Hebrew alphabet has a 19th letter called gof, which takes a sound like "q." The Hebrew letter shape still somewhat resembles its Phoenician forebear of 3,000 years ago. Meanwhile, the 21st letter of the Arabic alphabet is called qaf and takes a similar sound.

The ancient Greeks, sometime around 800 B.C., copied apply into their alphabet, modifying the name to a more Greek-style goppa. (Phoenician kaph, meanwhile, became the Greek letter kappa.) Unlike the Phoenician language, Greek had no subtle distinction between "q" and "k" sounds and didn't need two

# ت 7

Kindred in sound and in lineage; the Hebrau letter oof and the Andric sql. While not imiliar in shape, they beth derive from the notions! Phoreiting O letter. Both when modern Semitic Q letter are distinct from the K letter of their respective alphaben, as sending the tongue to jo as different pare of the road filt housals. In Andric, for example, calls means "heart" which skills, pronounced slightly differently means" log;

such letters. Eventually apppa would drop out of Greek—but meanwhile it had reached lally in Greek trading bijss. There it was copied from the Greek into the Etruscan alphabet (700 B.C.) and from the Etruscan into the Roman alphabet (600 B.C.). The Etruscans called their letter que, pronounced more or less as "koo." from which the letter's modern name in English and other tongues derives.

Like the Phoenicians, the Erruscans observed a difference in promunctation between K and Q But like the Greeks, the Romans didn't. The order-loving Romans wound up with three letters for the "k" sound—C, K, and Q—two of which they basically did not need. To fix the mess, they relied on C, ignored K, and confined Q to one use only to help capture the abundant Latin consonants sound "kw".

Thus, for "kw," the Romans wrote the letters QU.- The Q emant the "k" part and the U in that position meant "w." Because "kw" could be pronounced only before a vowel, the letters QUwere written only before a vowel. The U had many uses in Latin aside from accompanying Q, but the Q had no other role: It was written only before U and a second vowel.

Among hundreds of such Latin words were squalor (squalor), aequalis (equal), eloquens (eloquent), and quinque (five), all of which

have since contributed to English words. The Latin spelling QUcan be contrasted with the CU- of Latin words like *cultus* (cultivation) and *poras* (pig), where the sound was a simple "kuh" or "koo," without "w."

The Latin QU for "kw" was bequeathed to Romance languages such as French after Rome's Gill (a.s., 190). Maambille, on the isle of Britain, the Anglo-Saxons were writing Old English with a modified Roman alphabet that omitted the letter Q. The Anglo-Saxons didn't need it, as Ben Jonson points out above (page 271). They were happy to write "queen" as new and "quick" as and: But that changed with the Norman Conquest of England in 1066. Not only did the invaders bring hundreds of Norman French words with OU: stellings (outer, near, teaquie, etc.). but



(b) The Phenesical Q Erro, Called Opph. Mr. Nowleys "From an increption of above you X. The later days—above phosely breaded President as a more parasital various of a mode for team of the Arman of the Phenesican K Karen Called Lagh. (c) Green Oppe from an investigate from the island of Thou, around 68 Jt. Albrough so yould from opph, the Certe later so to a light philipse in the island of the Arman of the Arman

Norman scribes in England began spelling native English words with a French-style QU-, as well. So cwen became "queen" and cuic became "quick," O. or rather OU-, had arrived in English.

Only in recent decades has English O occasionally gone out without "her waiting woman" (Ben Jonson again). Most dictionaries now use Q without U to transliterate a few familiar foreign words and names, usually from Arabic, Hebrew, or Chinese, Examples include the Arabian sheikdom of Qatar, the collected Hebrew mystical writings called the Qabbala (variant of Kabbalah), and the ancient Chinese dynasty called Oin (variant of Ch'in). The change to O for Arabic and Hebrew represents an attempt to render more loyally the Q letter of Arabic or Hebrew, that is, the qaf or qof. In prior generations, qaf or qof was routinely transliterated as a K, in order to spare English-speaking readers the effrontery of a U-less Q. In the case of Chinese, the newer use of Q reflects the Pinvin system, universally accepted since 1070 for transliterating Chinese into Roman letters.

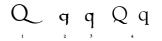
Nowadays, one word with a U-less Q has burned itself into the consciousness of most people around the world, if they read Roman letters: aaeda. The international religious terrorist group called Al Qaeda, meaning "The Foundation" in Arabic, was responsible for the horrific attacks of September 11, 2001.

O's most distinctive visual feature is its tail, an item approached seriously in calligraphy and type design. Some typefaces, aiming at elegance, make the tail extra long-a look that American type designer D. B. Updike deplores in his influential 1922 book, Printing Types. Yet British type designer Edward Johnston, in his classic 1906 work titled Writing and Illuminating, and Lettering, sees nothing wrong with a long tail, provided it has "a slight double curve to take off its stiffness."

O has found a modest niche in modern literature. The Star Trek sci-fi novel series includes a recurring character named O, a powerful being "from another continuum" who sometimes threatens,

sometimes aids our heroes of the starship Enterprise. Q's name plays on the scientific term "quantum" (from Latin quantum, "how much"), which denotes a quantity of energy in certain proportions and which is the basis for a whole theory of physics. Go, Q!

Fans of Ian Heming's James Bond novels and their movie versions know Q as the code name of Major Boothroyd, Bond's equipment officer, who usually appears near the tale's beginning to brief the superspy on the miraculous or frendish device being issued for his mission. The deadpan Q has a comite effect, both as a foil for Bond's playfulness and as a lower-rank duplicate of the other letter in Bond's life—his strout-toned box, code-named M. Why the code name Q? Author Fleming, writing in the 1950s to '050s. probably thought it was good for a lausch.



(c) Roman Q from the Trajen Interprises, A.D. 113. This Intudence heare stake a promission paper in the interprises on from its principal paper in the interprises on from its feet interprises of from the Eneman Prophises of Romans. The Prophises is the interprise in the size of the Prophises of the Interprise of Prophises of



The letter's shape is cleverly and even plausibly captured in this 1836 print, part of a funciful alphabet of human figures, published in Paris.

### OUR ARRESTING R

R. U. C.N. an I. R. ? F \*\* Y \*\*? U'r I's R. 2 Translation: Are you seeing an eye doctor? If not, why not? Your eyes are too dear

to waste

This rebus has been brought to you by R, the 18th letter of the alphabet (and the first letter of "rebus"). A rebus—as almost everyone \(\frac{Q}\_{-}\) — is a word puzzle in which pictures or symbols serve as phonetic substitutes for the sounds of certain words or syllables. Pronounced REE-bus in English, the name comes from the Latin phrase rebus now rebit, "by means of objects, not words." Rebuses can be surprisingly fun, combining brain-teaser challenge with humorous wordplay. R is a favorite rebus tool, since its name approximates the words "are" and (cheating a bit "our."

R's name displays well the letter's remarkable sound, a sound created by vibration of the palate, throat, and tongue, with the tongue approaching the palate. If you begin making the R sound, then lift your tongue tip to your palate, you'll find you've switched to L. Phonetically, L is R's sister: the two letters constitute the small category of consonants called "liquids," (See page 215.) R's open tongue position allows for more throat than L, and throatiness is R's hallmark.

R's growling sound (demonstrated in the word "growl") has inevitably been associated with dogs. Geofroy Tory observes in his 1529 book on the alphabet, Champ Fleury: "When dogs are angry, before they begin to bite each other, contracting their throats and grinding their teeth, they seem to be saving R." As Tory himself mentions, the dog reference dates back at least to ancient Rome: The poet Persius, in the mid-1st century A.D., called R. the "dog letter," canina littera. Likewise, in his 1640 English Grammar, Ben Jonson (who certainly had read Persius and probably Tory) described R as "the dog's letter." Yet this highly accomplished and intriguing letter is by no means itself a dog.

Phonetically, the two liquids, R and L, are known to have an effect on a vowel sound that precedes them in a word: The R or L draws out the vowel's pronunciation, usually making it stronger. Listen carefully to "Al," "pole," "pure," "fire," versus words where the same vowels have no L or R following: an, poke, duke, fine, (Still, the trick may not work if the L or R itself is followed by a vowel sound: The A sound of "carol" falls short of "carnal.")

Pronunciation-wise, R. ranges widely. The sound represented by the symbol R means different things to various speakers, not only from language to language but within English itself.

Parisian French pronounces R as a demure gargle along the throat and palate-a sound whose exact pronunciation is nigh on impossible for most English speakers. (Can you say regarder? We want to begin the R at the tongue tip and bring in the throat afterward, In Croatian, a written R may include a vowel soundthus the city name Trieste is spelled as Tin, for example. In Spanish and Italian, the R is trilled; you say it by vibrating the tongue tip against the plate: misrinoidia. Scottish R is trilled, too, providing the famous Scots burr.

Ask an Englishman of a certain social class to say "eatl" and you'll hear "eath," the R flattened into a brief tightening of the throat, very unlike the earnest R of a North American or Irishman. Or maybe not: People of Brooklyn or Queens might diminish R to the point of omitting it in some words. Meet ja's at Todiy-sold Stores at the o'klock.

Together, the Brooklyn accent and the cited British accent point to a more general principle—namely, R is known to slip away from some forms of spoken English. The root cause is that R takes effort to say: It has a relatively demanding pronunciation or of adults with impediments, who may replace R with the more easily formed W. "Pesky wabbit!" declares Elmer Fudd, perbuilly frustrated enemy of Warner cartoon here Bug Bunny. And this writer recalls playing Three Little Pigs with a three-year-old daughter who, when threatened with destruction of her piggg house, would reply gleefully, "Nol It's strong of bwick!"

Studies of the Brooklyn-type accent show that R is pronounced properly before woweds but is dropped often at the ends of wonds—whence the cry "Beeh heeh!" from vendors who carried tall, foam-brimmed paper cups on sided trays through the stands of Yankee Stadium in the 1960s—and is especially prone to be dropped before a D, L, N, or TH. Those consonants send the tongue it pot a position rather different from the R position; thus they render the R inconvenient as a preliminary. Why say "wested" when "weeved" is more restful to the tongue? Not that it's a conscious personal choice, of course; rather, the group acent develops along lines of convenience.) The human wish to conserve tongue energy lies behind many changes to spoken languages through the ages, including the kinds of slurring that helped to transform late Latin into Europe's Romance tongues, around 200 to 800 A.D.

Far from New York City, you can find the dropped R (minus the Brooklyn vowels) in Boston, Pahk yah cah in Hahsuhd Yahd and it'll get towed away by the police! Linguists go so far as to divide all English-language pronunciation into two accent groups:



Hall to the chief. Carrol in limenson, there was primitive bornic interns are past of the would older however published writing by the the Egginst denter in the the Egginst denter in the was then E., perhaps are your after the first alphabet invention. (See page 38-pg.) The two there except the first placehold of one incertion and would be the georgia learn of the writing run from tight to the first the six and would be the georgia learn of the writing run from tight to the first the case of the first problem of the first three the six of the s

rhotic and nonrhotic. (The adjective "rhotic," from the, the name of the ancient Greek R letter, is just a fancy word meaning "of R" or, in this case, "using R.")

Rhotic speakers pronounce the R as written; nonrhotic ones drop R or diminish it in certain positions in words. Nonrhotic local accents occur in the American South, the mid-Adamic states, and New England (but not the Midwest or West), also in Australia, New Zealand, South Africa, much of the Caribbean, much of England, and Wales (but not Southand).

The divide between rhoic and nonrhoic can be social as well as geographic. Linguistic surveys of the greater New York. City area confirm that nourhoic speakers tend to come from longtime local families of traditionally lower income, as compared with rhoric speakers. In the greater London area, just the opposite: Nourhoicism is a part of ideal British speech—"euhl" for "earl"—and signifies education and higher income.

The history of R is among the most gratifying of any letter's. Repears in the oldest known alphabetic wirting; the two rock-carved Semitic inscriptions at Wadi el-Hol in central Egypt, from about 1800 n.C. The inscriptions contain perhaps three examples of a letter shape that could be a human head in profile. Modern experts, drawing on information from later stages of the alphabet, clientify this as the early Semiter (Retter, called resk (probably pronounced "raysh"). The name meant "head" in ancient Semitic rougues. The resk spinfield the ""; sound that began its name.

Other head-shape letters, presumably resh, show up in the rock-carved Semitic writing of western Sinai, dating perhaps from 1750 B.C. But as is usual for the early letters, the resh's uses and qualities are best known to us from a later stage of the ancient Semitic albiabet, namely the Phoenician albabet of 1000 B.C.

The Phoenician resh was the 20th letter in sequence, Much like our own R, it fell after the Q letter and before the letters denoting "sh" and T. The Phoenician name still meant "head," but the Phoenician letter was a greatly simplified shape, a kind of 9. facing left for right-to-left writing.

This stylized form was still enough to suggest a person's head (and neck) in profile, thereby fulfilling the pictorial role of an early Semitic letter: The reader saw the shape and thought. "Head, resh, the 'r' sound." The letter shape projected leftward, in keeping with the right-to-left direction of Phoenician writing. Despite first appearance, this Phoenician shape would not supply our letter P but rather our letter resembling P: the R.

Today a letter called resh endures as number 20 in the Hebrew alphabet. Copied originally from the Phoenician letter, probably soon after 1000 B.C., the Hebrew resh still represents the "r" sound and its name is still understood to mean "head." The Hebrew letter's shape, while much changed since the Iron Age, still slightly resembles its Phoenician model

Similarly, the Semitic word resh lives on, with slight alterations, in the Hebrew and Arabic languages-for example, in



The Hebrew letter tesh. Its shape still recalls aspects of the ancient Phoenician letter from which it was copied.

the name of the autumnal Jewish New Year holy day, Rosh Hashanah, "head of the year," and in Arabic place-names like Ras al Khaimah ("headland of the tent"), one of the United Arab Emirate states.

When the ancient Greeks copied the Phoenician letters around 800 8.C., they basically kept the resh's sound, shape, and number-20 place in the alphabet, while modifying the name so as to sound more Greek: the. Unlike the Phoenician "head," the name tho meant nothing in Greek aside from the letter.

Greek pronunciation gave tho a small breathy element—as shown in the fact that eventually the Romans, when transliterat-



(c) The Semilie latter such, the "load," from the Wall of the bla cared incorpium of about 200 s. C. Semilie latter to the C. The exhi to the Semilie latter from the Semilie latter for the care Schaler before to the term days are capital or originally from an Egyptian binerghylp of a framework to the profile of a probability are cared an extension of the Semilie latter (c) and a semilie flatter to the cared an extension for the Semilie latter (c) and the semilies (c)

ing Greek into Latin, would render the the as two Roman letters: R + H. Today this Roman RH combination, representing the ancient Greek tho, is found in such Greek-derived English words as "rhetoric," "rhinoceros," and "rhythm," as well as in our spelling of the Greek letter's name itself, tho.

Like other Greek letters, the could face in either direction in early Greek writing-9 or P-insofar as the writing might run in either direction. By about 500 B.C., as the Greek system settled at left to right, the normally faced rightward. The neatly carved the of Greek marble inscriptions of the 400s and 300s B.C. looks exactly like our letter P. Meanwhile (as the prior chapter describes) the ancient Greek letter pi, for the sound "p," developed a different shape.

R's diagonal leg or tail, which distinguishes the letter in appearance from our P, was introduced in ancient Rome, after the Greek alphabet had passed to the Etruscans of Italy (700 B.C.) and the Etruscan one to the Romans (600 B.C.). In extant Roman inscriptions, R's identifying tail first appears as a stub ending in midair, then as a stroke to the baseline: R.

Our lowercase r shape grew out of the semi-uncial handwriting style of the early Middle Ages. To save time, scribes began abbreviating the right-hand part of the letter. Instead of the halfloop and tail, they drew just one, slightly curled stroke from the vertical bar: r. Adopted by the influential Carolingian minuscule style of about A.D. 800, this pleasant little shape was then copied by the humanist handwriting school of Italy in the early 1400s. From there, the r was taken up by early printers in Italy, who copied humanist letter shapes in designing lowercase letters of type (around 1470).

Most of our consonants' names in English have two elements: (1) the sound of the letter itself, floated on (2) a vowel sound. For example, "dee," "jay," "que," Chapter F. pages 120-20, describes how seven of our consonant names acquired an initial vowel rather than a following one-not "dee" but "eff." The seven are F, L, M, N, R, S, and X. Their names all begin with a short-E sound except for R, the name "ar" being the only English letter name with a short-A sound. R's name may have developed that way because the A sound displays the R sound better than E does.

R's name in the spoken Latin of the Roman Empire's common folk, around A.D. 300, was probably "erray" (perhaps spelled erre), similar to the modern Spanish name. Descending to early French and imported to England with the Norman Conquest of 1066, the letter name in medieval French and English reached a



(1) The early Etruscan R—seen here from a right-to-left inscription of about 660 B.C.—simply copied the Greek this in shape, sound, and alphabetic place. The Etruscan letter, in turn, would be copied to provide the earliest Roman R. (2) Roman R of the 2001 B.C. The letter shape faces rightward (Roman writing having by then settled in that direction) and displays the beginning of R's distinctive tail. The Romans added the tail to distinguish R from their letter P. (3) Mature Roman R from the Trajan Inscription, A.D. 113. This form would become the model for our modern print capitals. (4) The inked R of the uncial handwriting style-this example from a Latin biblical text of the 600s-closely imitated the old Roman capital. (5) Our lowercase r shape emerged in the semi-uncial handwriting tayle, an early medieval Latin "business hand" for which scribes created certain abbreviated letter forms to save time and effort. This example comes from a manuscript of the 500s, from France.

form something like "air." R's name still sounds close to "air" in modern French and in certain regional dialects of England.

In modern emblems, R may stand for Latin rex or regina. "king" or "queen," as in the monogram ER (not the TV show but "Elizabeth Regina"). The mechanical R2D2, one of the more endearing characters from the epic Star Wars film series. has a name (never explained) that suggests "robot design number 2." According to Hollywood legend, the name was inspired by a film-editing term meaning "reel number 2, dialogue number 2."

Our Rx prescription symbol, familiar from druggists' signposting, commemorates a word from medieval Latin: the imperative verb recipe (pronounced "re-SIP-eh"), meaning "take." This was the official first word of a doctor's prescription written in Latin (as they generally were, until the early 20th century, in Western Europe and the Americas). The x represents what was once a fancy crossbar, inked onto the R's tail as an identifying sign at the prescription's start.

Leaving R, let's recall one of our earliest health writers, the Elizabethan English physician William Butler. In his eating guide Dvet's Dry Dinner (1500). Butler fashioned the proverbial advice that "It is unseasonable and unwholesome in all months that have not an r in their name to eat an oyster."



The shape and sound of S are put to their natural use—rather excitingly—in an illustrated alphabet in the 1844 children's book Wonderful Stories.

#### UNIVERSAL S

erpent's letter. So Ben Jonson calls it in his English Grammar (1640), and no one has trouble guessing which letter he means. For centuries, in language, poetry, and art, S's simuous shape and hissing sound have conjured up a certain kind of reptile.

Take for example a memorable scene in Hell, near the end of John Milton's epic poem Pandise Lost (1667), where the Devil gets his comeuppance from God for having ruined the Garden of Eden. Listen to the sounds as Satan and his army are metamorphosed, unwillingly, into giant snakes: A dismal universal hiss the sound Of public scorn . . . / Now were all transform'd Alike, to Sernents . . . / Dreadful was the din Of hissing through the Hall, thick swarming now With complicated monsters, head and tail . . . (Book 10)

On all sides, from innumerable tonoues

S is the primary sibilant in English, a sibilant being a hissing or hushing sound or a symbol representing same. Other sibilants are SH-, Z, and soft C. For English spellings, S does most of the work-although in words like "nose" and "pies," it could be said to be hogging Z's job.

Among the 26 letters, S ranks about number 8 in frequency of use in printed English. And it ranks number 1 as an initial letter: More of our words start with letter S than with any other-one reason being that S encompasses all of our "sh" words, too, as English (unlike some tongues) has no separate "sh" letter.

Sibilants as a category, from language to language, tend to contain many possible shades of pronunciation. English S has about four sounds. The two main ones occur in the word "season"-the sharp, front-of-mouth "s" and the flatter "z." Say them and you'll notice that the second S engages the vocal cords while the first does not. The "z" sound often occurs when S falls between two vowels ("lose") or at a word's end after a vowel ("sales").

Otherwise, S may sometimes be sounded "sh" on its own, as in "sure" and "mansion." Or it can sound like French J, as in "fusion" and "closure." Or S may be mute: island.

Sibilants are known to travel badly: Their subtle sounds may get mispronounced or misinterpreted from one language to another. Spanish or Italian speakers, for example, often have trouble pronouncing S at the start of English words and so insert an initial vowel as a buffer: "eh-song," "eh-slice." (Fitting the humor of a

bygone era, this trait was a hallmark of the Italian character played by Chico Marx in Marx Brothers films of the 1930s and '40s.)

Similarly, "sh" can be impossible to pronounce for those not used to it. English-speaking children up through age three or four generally substitute "s" for "sh," saving "sooz" for "shoes" and "sy" for "shy," until they grow into more perfect speech. The biblical book of Judges relates the harrowing tale of the shibboleth: a password involving a sibilant, used to distinguish friend from foe in civil war. Two tribes of Israel, the Ephraimites and Gileadites, became enemies and fought a battle in which the Ephraimite invaders were beaten, far from home. The victorious Gileadites seized the Iordan River ford to block the homeward route of Ephraimite survivors. When any unknown man reached the roadblock, he was ordered to say the password, shibboleth (meaning "ear of wheat")-the point being that a native Gileadite would know how to say the "sh," but an Ephraimite, speaking just a different dialect of Hebrew, would not, "He said Sibboleth: for he could not frame to pronounce it right. Then they took him and slew him, at the passages of Jordan." The Ephraimites lost 42,000 men in all, according to the Bible.

Shape-wise, S has been sinuous from the start. The primitive Semitic language inscriptions at Serabit el-Khadem in Sinai, from perhaps 1750 B.C., include examples of a letter shaped like a curlicue W: C. Modern experts believe the shape probably represented the picture of an archer's bow; a "composite bow," from two joined animal horns, such as commonly used in the ancient Near East. What exactly the letter's name and sound were, at this formative stage, remains unclear to us.

As usual in the study of the early Semitic alphabet, clearer information comes from a later stage, namely, the Phoenician alphahet of about 1000 B.C. We know the Phoenicians had four sibilant letters, named zavin, samek, tsade, and shin. Because the sound represented by a Phoenician letter was always demonstrated in the opening sound of the letter's name, the four names give an idea of the letter's different sounds. Samek was the basic "s." Zayin and tsade took sounds "z" and "ts," respectively. And shin was "sh."

By coincidence, shin was shaped almost exactly like our W. Modern experts see in the W shape the stylized development of the earlier letter shaped like an archer's bow. Reasonable enough: The bow shape had been simplified to a mere zigzag, However, the Phoencian name shin is understood by scholars to men "tooth," not "bow." Yet the letter's W shape looked not much like a tooth (although perhaps like two upper shark teeth). For whatever murky reason, the original letter's name had changed, to "configulater shaped and changed, to "configulater shaped and changed to "configulater shaped to "configuration" and "con

Shin came 21st in the Phoenician alphabet. Today, in the Hebrew alphabet (copied originally from the Phoenician soon after 1000 B.C.), the 21st Hebrew letter is still called shin, meaning "tooth." Hebrew shin takes the sound "sh," and, unlike most Hebrew letters, it still resembles its Phoenician forebear in shape.

As mentioned, the plain "s" sound belonged to a different Phoenician letter, named samek (meaning "pillar"). Logically, samek should have become the ancestor of our S. But events would take a different turn, due to the Greeks inadvertently throwing a monkey wrench into the works.

The Greeks spoke a language totally unlike Phoenician, including differences in sounds. We have already seen how sibilants





The Hebrew letter shin, at left, still looks rather like the Phoenician shin of 1000 B.C., right, from which it derives.

can have tough times crossing language borders. When the Greeks came along and copied the Phoenician alphabet sometime around 800 B.C., they chose one letter to be their "s" sound . . . yet they got the written symbols mixed up.

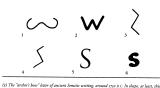
What the Greeks needed simply to do was to copy the Phoenician letter samek's symbol and sound, Instead, they copied the symbol for shin and kept it at shin's place, number 21 in the alphabet, yet they gave this new Greek letter the plain "s" sound of samek, and they called it "samek"-that is, they called it sigma, which is the Greek styling of the Phoenician name.

On one hand, it didn't matter: Letters are just agreed-on symbols, and Greek writing got an S letter as needed, so who cares? On the other hand, the "sigma" error was part of a larger foul-up in the transmission of the alphabet from Phoenician to Greek, a foul-up involving all four Phoenician sibilants, zayin, samek, tsade, and shin. (We'll skip the other details here.) The issue has fascinated some scholars, as possibly offering clues about the creation of the Greek alphabet.

The scholarly consensus is that it isn't the type of mistake a group of scribes would make over a generation's time; it's a mistake an individual person would make in an afternoon. It supports (albeit slenderly) a scholarly theory that the Greek alphabet was devised by an individual, one whose name has been lost to history, without doubt a Greek, demonstrably a genius. Situated presumably at one of the east Mediterranean seaports where Greek and Phoenician traders coexisted, probably working from a written Phoenician letter list, probably with guidance from Phoenicians, this person copied and adapted Phoenician letters as tools for Greek use-however, making minor errors in translating the Phoenician sibilants

Quickly, Greek sigma changed its appearance. The Greeks for some reason preferred to tilt the W shape on its side and allow it to zigzag up into the air. The sigma produced several variant shapes, including one resembling an elongated Z: or . depending on the direction of the writing. This design passed to the Etruscans (700 B.C.) and Romans (600 B.C.) of Italy. The Romans eventually rounded out the shape, making our familiar S, and bequeathed it to Western European alphabets of the early Middle Ages.

Between the 300s and 800s A.D. in European handwriting. most letters spawned newer shapes for easier penmanship. Al-



was the earliest ancestor of our S. (2) Phoenician ship, from an inscription of about 800 B.C. Although heir to the bow letter shape, shin in name meant "tooth." It took the sound "sh" that began its name. (4) Greek sigma from a left-to-right inscription of the 600s B.C. The shape and sound had changed from the Phoenician version: The Greek letter denoted the sound "s" (not "sh"). This sigma was shaped much like our Z in facing backward, toward the previous letters in the flow of writing, not ahead like our S. (Modern Greek sigma has set a different shape.) (4) Early Roman S, from a left-to-right inscription of about 500 B.C. The Roman letter shape faced ahead, the opposite direction from the Greek. (5) Roman S from the famous Trajan Inscription, A.D. 113. The mature Roman letter had achieved the familiar curves, with elegant finishing strokes (serifi) at both ends. Preserved in carved stone, this shape would provide the model for the uppercase S of the first roman typefaces of about 1470. (6) Minuscule s in the humanist handwriting style of Renaissance Italy, from a Latin book written at Naples in 1477. This little s, copied by printers for their lowercase type, would eventually prevail over a rival lowercase shape: the f-like "long" s.



The cover of the 1508 awarto edition of Shakespeare's Love's Labout's Lost (as the title is normally spelled today). The lettering shows both forms of lowercase s as printed in Shabronare's England: There is our familiar s shape but also the f-like "long" s, which was not to be used at the end of a word.

though no one knew it at the time, some of these shapes would later supply the models for early printers' lowercase type. S developed two handwritten shapes: the "short" s, basically our modern lowercase letter, and the "long" s, shaped rather like an f. Long s, easy to write, was by custom used at the start or middle of a word, never at the end.

With the spread of printing in the second half of the 1400s, the long s became one of the printer's lowercase letters (along with the short s). This f-like s continued to appear in English-language print and handwriting right through the 1700s, before falling out of vogue. It still is used occasionally in German print, where certain medieval typefaces remain popular.



The S of cell. Distinguished by his min's Collice medium, a suparad German SS affort is antesided you of mention military policenses (MOI) in a photogonity by bother Capa for Life magazine, ammobire in Kennando, June or July 1444, 1000 of 1800 of 1800 of 1800, or Wholl Will. It has beautify maned Schwistell (offerine quadratum) had been creared by Hiller in 1814 and had possible and later enlarged as a Yasai Injustice and by Hiller in 1814 and had possible and distributed by the Moilli's release, the material of the Moilli's comparation of the Comparation of the Comparation of the Theories of the Comparation of

The Schutzstaffel's zigzag S shapes resembled lightning bolts and the carved S of Germanyi medieval runic alphabet, thus cooking power, atavism, and patriotim. In the 1970s, the jagged double-S would be adopted—in atrocious taste—as part of the name log of the beasy-metal rock band Kiss.

S is one of a handful of letters—like A. O. V. and Z—that invite philosophical or spiritual interpretation. S's hissing sound need not always be bad: In Jewish mystical tradition, the Hebrew sibilant shin was equated by sound with the element of fire and was exalted as one of three "mother" letters. (The other two were the A and M equivalents.) With our Roman S, there is also the evocative shape: Being nearly an infinity symbol, S can imply timeless continuity. Or it could be a link in a chain or (as we've seen) a serpent, whether an evil one or the nutritive, encompassing, mother-of-waters type found in some mythologies.

On the dark side of S traditionally are its ties to sin and Satan. Also, in the past 70 years, another evil association: the Nazi Schutzstaffel (defense squadron) that was Hitler's private army of terror and genocide-the infamous SS.

Yet S's happier cosmic aspect has had its advocates, too, including Irish author lames lovce in his epic novel Ulysses (1922), a work that aims at universal significance. Based loosely on the ancient Greek epic poem the Odyssey (about the wanderings of the hero named Odvsseus or Ulvsses), Ulvsses follows a main character and several lesser ones on perambulations though Dublin during a single day and night in June 1904. Not only does the book's title contain three S's, but the text begins and ends with an S-that is, with words containing S. The multiple S's perhaps signify: (1) the links of a chain, connecting us all but also limiting us to our mortality; (2) the image of meandering, relevant to the story; and (3) the infinity symbol and the continuing cycles of life and human history. From the novel's opening words, printed with a drop-capital S ("Stately, plump Buck Mulligan came from the stairhead . . ."), we proceed through 750-plus pages, 18 hours of story line, and countless incidents and themes, to end on the famously affirmative note of Molly Bloom's reverie, "... ves and his heart was going like mad and yes I said yes I will Yes."

A detail from German artist Albrecht

Dürer's woodcut of the Lamentation

Dürer's woodcut of the Lamentation
(about 1496), which is shown on page 188.
In the scene, women mourn the dead
Christ, taken down from the cross. Me-

and triumph.

dieval and Renaissance artists often pictured the cross in the form of a capital T, and the letter T might be associated with the crucifixion, in senses of both travedy

## T PARTY



he sign of the cross. The mark of Cain. The final letter of the Hebrew alphabet. The image of containment or suppression.

The profile of a spike or nail. Associations like these have given T a sometimes sinister or daunting air through the centuries.

In ancient times, the Greek T and Roman T each looked like our capital letter. To literate people of the Greco-Roman world, the shape might suggest the idea of crucifixion, a standard method of death penalty in that day. Early Christian mystics considered T a reminder of Christis suffering on the cross. Pagan thinkers made a similar connection, although without necessary reference to Iesus.

The pagan Greek author Lucian, in a witty essay written around A.D. 100, tilded "Consonants at Court," imagines a luwuir between two rival letters: the Greek S letter, named sigma, and the T letter, tau. Speaking before the judges, S denounces T as an agent of dictators and repression: "They say it was T's shape that tyrants copied when first they set up the cross to crucify men. This vide device is called tanawa, and it gest is vide name from tau."

Ill-omened though it may be, T is fundamental to English anguage and spelling. Surprisingly, it is our second-most-often-used letter in print, after E. (The letter A finishes a close third.) A frequent sound in words from Old English, T occurs more often at the middle or end of our words than at the beginning, which explains why the "T" section of your dictionary int't especially thick

T's strong showing on the printed page owes more than a little to the word "the" and to the family of TH words generally (there, other, cloth). In English, TH amounts virtually to a separate letter of the alphabet, with its own sound and history, apart from T. (See "Tales of TH," pages 308-9.)

T's nature-drum sound has benefited poetry. For example, the English soldier-poet Wilfred Owen—who served two grucosides years on the front line in World War I, to be killed while helping to lead an attack one week before the Armistice—employed T to memorable onomatopoetic effect, along with other letters, both consonants and vowels, in his 1917 "Anthem for Doomed Youth." The poem reflects on the horror and insane waste of that particular war:

What passing-bells for these who die as cattle? Only the monstrous anger of the guns. Only the stuttering rifles' rapid rattle Can patter out their hasty orisons.

Phonetically, T is the brother of D. In English, both letters create sound through a spurt of breath around the tongue tip set against the sockets of the upper front teeth. D engages the vocal cords while T does not. Thus, T is an unvoiced stop; D is the voiced counterpart. Yet the T can sound mighty similar to D in certain uses at the middle of a word, at least in American accents. Many a country-western song rhymes "saddle" with "cattle," and we all know what happened when the cow tried to jump over the barbed-wire fence: udder disaster

The midword position is a vulnerable one for T generally. There, historically, the letter has been known to soften, not just to the unofficial American "d" but to other sounds or even to silence. The Cockney swallowing of the middle T's in the word "bottle"yielding the pronunciation "bah-owe"-has been mentioned back on page 50. Other examples of softened T, in mainstream English worldwide, include "nation," "creature," and "listen."

In "listen" or "castle," the T was at one time pronounced. But the "nation" category represents the biggest use of alternative T. In hundreds of words where T precedes the letter I plus a second vowel. T has acquired the sound "sh": inertia, patience, facetious, and so on

Most such words come from Latin; the "sh" commemorates a slurring of T in those positions in spoken Latin of the late Roman Empire. A Latin word like natio (meaning "a race of people"), originally pronounced "nah-tio," came to sound more like "nahshio" in common folk's Latin, but with no change in spelling. Likewise, the word gratia (favor, pardon, charm) went from "grahtia" to "grah-shia."

After Rome's fall (A.D. 500), this secondary pronunciation of T became part of Europe's emerging Romance languages, where it gradually slurred further, to the sound "s." Sometimes it effected a change in spelling and sometimes not. Modern Spanish

acknowledges reality with spellings like nación (pronounced "nahsee-on") and gracia ("grah-sia"). The soft C in those words replaces the T that once stood there. In modern Italian, the old T has turned to Z: nazione, orazia.

Medieval French, meanwhile, apparently recognized two levels of decayed T. Where the T had slurred completely to "s," the spelling changed to C, as in medieval French grace (pronounced something like "grahss"). But where T had stuck at "sh" it remained spelled as T: nation ("nah-shee-on"). Such French spellings and pronunciations were imported to medieval England after the Norman Conquest of 1066. Today, medieval French's "nahshee-on" has become our "nation"

The best-known story of T's pronunciation involves the British countess and society wit Margot Asquith (1864-1945), wife of Herbert Asquith, who was Britain's prime minister from 1908 to 1916 and who became the first Earl of Oxford. Legend places this razor-minded, aging, titled lady at a 1930s dinner party that included blond American screen siren and bad girl Jean Harlow. (The connection isn't impossible, as the Asquiths' son was the movie director Anthony Asquith.) Jean Harlow, recognizing her, asked loudly, "Say, aren't you Margot Asquith?"-but mispronouncing the name as "Mar-got." To which her ladyship replied. "Oh, no, dear, the T is silent, as in Harlow."

The T enters history in the oldest alphabetic writing yet known: the limestone-carved inscriptions at Wadi el-Hol, from about 1800 B.C. Although the two messages in ancient Semitic language may never be satisfactorily deciphered, one of them clearly shows two examples of a primeval letter T (photograph on page 39, inscription number 2). However, the letter's properties are better known to us from a later stage of the early Semitic alphabet, namely the Phoenician alphabet of about 1000 B.C.

Phoenician T was the last letter of that alphabet, number 22. Called by the Semitic name tang is took the "it" sound that began its name. The word taw meant "mark," probably as in an agricultural identifying sign, like a cattle brand or the slye mark. The modern Near Eastern shephered slad bon their sheep. Tak's shape was usually cruciform, either perfectly even, like a plus sign, or forword lengthwise, like a church cross. Alternatively, in some inscriptions, taw looks like an X. There being no other X-shaped Phoenician letter, the variation didn't matter.

Today, fase survives as fau, the 2 and and last letter of the Hebrew alphabet. It still takes the "i" sound and its name is still understood in Hebrew to mean "mark." although its modern shape looks nothing like the Phoenician letter. According to legend, this branding, final letter, fau, was the "mark" mentioned in the biblical book of Genesis as being placed by God upon Cain, after Cain murdered his brother. Abel.

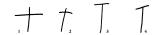
When the Greeks copied the Phoenician letters around 800 a.C., ane was utshered right into the newborn Greek alphabet as letter number 22, with the sound "" and the Greek name and probably rhyming with "cow"). Tau wan't the last letter of the Greek alphabet, for the Greeks invented new letters to follow, starting with their letter U. (Grady U still follows). Ti nour own alphabet.)

One small change the Greeks made From the earliest examt forek inscriptions, carved in stone or cearmic, the ash shows a T shape, not a cross shape. A very few early examples where the vertical stroke does pierce the crosshar seem to represent manual eror, a sipt of the carver's hand, not a variant letter form. Because the Greek alphabet also contained an X-shaped letter, the Greeks widently took care to cap their T, to help keep the two letter shapes distinct. In Western tradition, T's shape would remain exclusively capped for 2,000 years, roughly 800 n.C. to Ab. 1200.

From the Greek alphabet, the simple, handy T letter was appropriated into the Etruscan alphabet (700 B.C.) and thence into the Roman (600 a.c.). The Romans called it something like re (pronounced 'tay'). That name, eventually reaching English va medieval French, would yield our modern 'tec' through a shift in English vowel pronunciations culminating in the 1500s A.D. The story parallels that of Bv name and others (see pages 71-72). Modern French still calls' It the 'vision' and the story parallels with the start of the start

Most of our lowercase shapes—a, b, d, e, f, g, h, i, m, n, p, q, u, and y—were born as ink shapes in European handwriting between about A.D. 300 and 800. The impecus for creating such minuscule forms was ease and speed in penmanship. Yet a few of the simpler-shaped letters, like O and X, never produced a minuscule, as not needing one: They were already perfectly simple to write. For centuries, T remained in this category, taking the shape T in all handwriting styles.

Not until about 1200 did our familiar t shape emerge, in the Northern European pen style known as black letter. The t shape's advantage in penmanship was minor: It offered a slightly easier



Letter T insighe dags has weathered the centuries with little change. (1) Poolings was your after the absolute instance, the state of the subject of invention that I there was any est a message froutball were to be despited on the absolute of the surface. I see a fine superfix in a medicate range in a set to despite of the surface of 10 Poolinestes was to be expected by a Somitic-language geoder in doctor next in central Egypt, about the to Exc. (2) Poolinestes was to be "I" want by the surface in much learner from a fine surface in a substance of Loss parts of the surface of the surface in a surface in a surface of the surface in a surface







(1) Roman capital T from the famous Trajan Inscription, A.D. 113. The letter's austere lines have been dignified through serifi and subtle tapering of both bars at midpoint, to produce one of the most beautiful Roman letter shapes. (2) Ink T in the Carolingian minuscule handwriting style. from an Enolish lenal document in Latin, dated 1018. Historically, the Carolinoian style produced finalized forms for nearly all letter shapes that we would call lowercase: a. b. d. e. and so on. Yet the Carolingian T remained a capped figure. (3) Our lowercase shape finally emerges in the Northern Funntean "black letter" handwriting style of about 1760. Imitated in Italian handwriting styles of about 1420, this shape would be adopted by printers in Italy around 1470 to be their lawerous z

crossbar for the scribe, with less aiming of the pen. Of the minuscule shapes that we inherit, the t is probably the second to youngest. Only the letter L would be later in spawning a minuscule, around 1400. Prior to t, the latest born was probably the little n. coming from the Carolingian minuscule pen style around 800.

Ironically-although no one could have known so in 1200the new, minuscule t simply re-created the cruciform shape of the earliest T letter, the Bronze Age Semitic taw.

Due mainly to its shape, T contributes modestly to English vocabulary: for example, golf tee, curling tee, engineer's T-square, Every plumber's truck carries a certain pipe section called a "tee" or T-fitting. The term "T-shirt," which does indeed refer to the letter shape (although it seems a stretch), dates back to the standard-issue cotton undergarment of U.S. servicemen in World War II. Our tea beverage, however, gets its name from Mandarin Chinese ch'a.

Something of a mystery is posed by the old expression "fits to a T," as in "Those eyeglass frames fit her to a T." First documented Despite appearances in spelling, the sound of TH—as in "Think thin, father"—can be fairly distinct from that of T. In words like "father," where it engages the vocal cords, TH steers closer to D than to T.

The symbol TH in English actually embraces two (very similar) sounds the voiced dental fricative, as "them," father," and "mother," and the sovoiced version of same, as in "thin," "faith," and "moth." (For Tricative' defined, see page 123.) Our TH words come primarily from Old English and secondarily from ancient Greek. (The Greek words typically have been conveyed via ancient Latin and medieval French, Example thoses:)

Theoretically, our 'th' sounds as a group deserve a single letter of their own. Such symbols have existed in the Greek and Old English alphabets, but not in the Roman. As described on pages 165–66, the T-H combination was an attempe—first in ancient Rome, then in medieval England—to symbolize a sound for which no Roman letter existed.

## þð p 3

The cens setters of Old English English writing of the early Middle Apes included at least from Heart As were map per of the Ruman alphabet. Then were figure Angle-Scom signs, which supplemented the traditional Ruman letters, to capture Old English sounds not subervaise overed. To signs instean, from left, user thorn, to the view, and anylog Myn electrated be used "in "the alphy five "Was insecured, and yelp means a breathy sound benering featuress" ye and 'g. "Further information theat way and apply appears on pages 35 and 35-5-6.

Thorn and chi both demond English 'hi' is mode. Strictly, thorn was meant for unoviced promotication ('thin,' 'thank') and chi for voiced one: ('then,' 'ban'). He exame numeror jo those the two ymbols being und often invositiently with thorn preferred. Thorn had been borroused from the old muite alphabet of Northern Europe (tee pages 145-36), but cit has an Anglo-Saoon invention. In shape, chi hooks like an unstall letter D with a resubstra added, and this remediates.

was no doubt intended: The "d" sound was similar to eth's soiced "th." (Compare "den" and "then "I

The use of the Anglo-Saxon letters would gradually cease after the Norman Conquest of England in A.D. 1066, The change came due to pressure from Normaneducated cleres and teachers, who soweht to give written English a more "proper" Franco-Roman form. Drawing on the ancient example of the Romans' transliteration of the Greek "th" sound, Norman authorities began writing TH in place of thorn and eth

Eth would disappear by about 1300, replaced by TH in English spelling. Thorn, while larvely dislodeed by TH, would have on in a few uses in England right into the 19th century: See pages 156-17.

in English print in 1693, the phrase could be a play on the spelling F-I-T or a reference to mechanical drawing with a T-square. Richard A. Firmage, in his enjoyable book The Alphabet Abecedarium (1993), theorizes that the meaning lies in the printer's and calligrapher's use of letter T, which can have various crossbar widths. to fit into or fill out a line of lettering. But the Oxford English Dictionary finds significance in a phrase "fits to a tittle," first documented in 1607, nearly a century earlier than "fits to a T."

A tittle (from Latin titulus, "sign") is a dot, a tiny amount. It was also, in some medieval English traditions, the name of the final character of the alphabet as learned at school. After X. Y. Z. the child would write two more symbols to be memorized: & and ÷, the first one representing the word et (meaning "and" in Latin) and the second representing the word est ("is" in Latin). The latter symbol was called "tittle." After tittle, the child might write "amen." Reciting his ABC's aloud, the student would finish with "eks, wve, zed, et, tittle, amen,"

So "fits to a tittle," meaning to the smallest and last detail, could have been the original expression. But when tittles fell out of schoolroom use at the end of the Middle Ages, the phrasing evolved to "to a T." To which we can say, "et, tittle, amen."



present in the vibrant pose of Bono Vox of the Irish rock hand U2, at the start of U2's historic 1997 charity concert in Sarajevo, in Bomia-Herzegovina. As a healing celebration after the end of Bosnia's brutal ethnic wor, the rock event was Sarajevo's bigger ever, attended by 50,000 young people from across the former Yugoslavia and Central Europe, (For the meaning of U2's name, see page 190.)

#### MAKING SENSE OF U

tter confusion may result from the story of letter U, unless a few quirky facts can first be ironed out. So please let's approach it as a parable, "U and Her Family."

U, our fifth vowel, hat row daughten: the consonants V and W, which follow U in alphabetical order. V and W were born gradually from U, during the European Middle Ages and Remaissance. Before that, in ancient Roman times, U was alone: She had no children (the Roman alphabet going: T, U, X, Y, Z) and was compelled to do some of their current work herself. Ancient Roman U could represent either the familiar "u" sound or, when placed before a vowel, the sound "w"

Today this Roman U for "w" lives on in English, wherever U falls between Q and a vowel; quart, quest, require. (One of the few exceptions is "queue".) Also, occasionally where U falls between S and a vowel or between G and a vowel: suave, persuade, sanguine, language. Most such words originate in Iaria as delivered to English by medieval French, yet a few (queen, quick) come from Old English itself; their modern spellings having followed the Franco-Latin way.

Like many mothen of grown children, U looked rather different in days before the lids came along. Back when Julius Cassar or Marcus Aurelius ruled Rome, U's shape was sharper, more swelte. In fact, U looked exardy like her future daughter V (withnout V's sound). Thus, in Roman stone-carved inscriptions, the abowe-mentioned emperors' names would appear as IVLIVS CAESAR and MARCUS AVRELIUS.

There have been other letters in U's life. The letter Y, specifically rowel Y, is U's half-brother: They both come from the ancient Greek U letter. But the letter with the oldest and deepest involvement with U, believe it or not, is F.

F and UF it sounds like a jage, F and U are signal letters of the worst vulgarium in English: The two letters clinch secretly, shamefully, in the muddy storage barn of every adult English speaker's mind. Yet it seems they share an honorable connection, no. Both U and F emerged from the selfsame letter of the ancient Phoenician alphabet sometime around 800 n.C., when the Greeks copied and adapted Phoenician letters. From a single Phoenician letter, the Greeks differentiated two letters for themselves, one a consonant, one a vowel, which grew eventually to be our F and U. So they are cossius, whether immoral toeother or not.

To this day, a family resemblance exists among the sounds of F, V, and W in English. F and V, classed together as fricatives, are pronounced very similarly. And the "f" may substitute for "w"

(or "v" for "w") in the mouths of foreign speakers learning English, who find "w" difficult, Germans and certain Eastern Europeans, for example, might say "fhat" for "what," "fich" for "which"

Keeping in mind this extended family, we can start to make sense of U. The tale begins with wan, the sixth letter of the ancient Phoenician alphabet. As explained in the F chapter, the name wuw meant "peg" and the letter had a peglike Y shape. It took the sound "w" demonstrated in the start of its name.

All of our vowel letters were born from the ancient Greeks. Prior chapters of this book have detailed how the Greeks created A, E, I, and O from a Phoenician alphabet of all consonants: Selecting a few Phoenician letters whose sounds were unneeded for Greek, the Greeks changed those letters' meanings to vowel sounds. For their letter U, they copied and altered Phoenician waw. Their choice of waw surely was prompted by a slight similarity between the sounds "w" and "u."

But one complication: The waw had already been copied once by the Greeks, to supply their letter number 6, which took a "w" sound. This Greek letter became the ancestor of our F (our sixth letter today). For letter U, the Greeks evidently copied Phoenician waw a second time, putting the resultant letter at the end of their alphabet, which was still in a formative stage. (Also, they doctored the shape of their "w" letter, so it wouldn't look like the U.) At that moment in history, Greek U was the last letter of the Greek alphabet, number 23, coming after Greek letter T, number 22. Later the Greeks invented four more letters, placing them after U in alphabetical order. All of which explains why, some 27 centuries later, in our own alphabet, letter U follows T, toward the end.

Greek U was called u psilon (pronounced "ew-psil-on"), meaning "naked U." The name basically presented the letter's sound. (Today upsilon as one word is the preferred form.) Greek U was pronounced probably like German ü: a narrowed sound, approaching "ew" or even "ih."

In shape, upsilon looked like the Y figure of Phoenician waw. Centuries later, by another route, the Y shape would also supply our letter Y.

By 700 π.C., Greek U had been copied into the Efruscan alphabet of Italy. From there it was copied, before 60 a Ωc, into the Roman alphabet, for Latin speakers around the village of Rome. Probably following Efruscan usage, the Romans called the letter u"Cα"). Latin U evidently sounded flatter than the Greek, more like our English vowel. Latin employed a long-U sound, pronounced perhaps an in "tude" and a short—U sound, as in "put."

U could sound mourrful or primordial to the Romans, parcludarly in verse and oratory. There was a Latin imitative verb meaning "to how!," alulaer ("oo-loo-lah-reh"), which the poet Vergil favored and which has since supplied English "dulater." And the UV carry what is probably the single finest line by the Roman poet Horace, around 13 R.C., musing on the brevity of human happiness and achievement: Pulse is tumbus aumos ("pulwis et um-rban soomus"). We are feet dust and shadow (Ode 4.7).

Officially, Roman U took the shape V, derived from the Yminus-the-stem shape favored by the Etruscans. The shape V would remain letter U's principal form for 1,000 years, about 500 B.C. to A.D. 500, and a contender for 12 centuries after that.

V-shaped U's punde across imperial Roman inscriptions like that from Trajant Column (Illustrated on page 104), and they appear in various ancient Roman ink styles. An irregular tendency toward a more rounded U can be seen in surviving scraps of Latin graffiti and other informal writing a early as the first century a.C. This isn't surprising, for although the V form is far easier to care, the U form is easier to write quickly in ink. and more so on a

# MHOLCONIVM PRISCUALIUIR-10 COMBRIGORIA PRO

Letter U takes a V shape, he me a thinsy perfectly, in this Roman electioneering message, paintireland onto a suill at Pompei and preserved for contaries under the volumic and that covered the city on A.D. y. Will be frist eller! ("pomassi universa) supe the people to elect Marcus Helsonius Priscus to city office. With nearly modern remisbility, the paster shoutcast the most foundy same, pasting it at on join the biggest letters.

yielding surface like papyrus or vellum. In everyday Roman writing, shape V probably often came out looking like U.

Rounded U first appears systematically in the late Roman pen style known as uncial, which emerged around An. 300. Uncial being an adaption of Roman capitals to pen strokes, rounded forms were naturally preferred. The U shape became standard in certain (not all) handwriting traditions of the early Middle Ages, including the influential Carolingian minuscule style, developed around 800. For cipital positions, such as headings or the beginning of a sentence, the shape V remained the favorite, although Anglo-Saxon Latin writing did develop a capital U Several medieval styles used capital V alongside minuscule u. For penning Latin documents, such variations seemed trivial.

But not trivial outside of Latin, in the emerging languages and literatures of Western Europe Here the context between shapes V and U was forced to conclusion. Within medieval French, Italian, and English there existed a relatively new consonants sound, "V" about which more will be said in the next chapter). It was a sound in search of a letter. Medieval English or French speakers understood the sound "S" as a consonantal promunication of sle-

ter U, and they wrote "v" with the same letter shapes as for "u."

So the shapes V and U were being used interchangeably for sounds
"v" and "u."

The inadequacy of this method—two sounds, two symbols, yet not coordinated—was felt in Middle English in the 1300 and 1400s. An attempt at order came in a rendency to write V at the start of a word and U elsewhere, regardless of sound. Such manierity spellings include world and powa along with win and vice, sawe and wer along with now and full. The custom continued in England after printing's arrival (1476) for another two centuries. Among many examples, the earliest print versions of Shakespeare's plays (around 1600) show spellings like low and lenate, undo and sine university that the start of the start of

What happened finally in print: the two sounds and two symbols squared off. Sound "u" was given to type-form V, and "u" got U, babe. (Theoretically it could have gone the other way, with vowel "u" receiving the symbol V. The factors that recommended sign V for sound "v" will be examined in the next chapter.)

This ordering of U and V began in the mid-1500s, among Italian printers. Not until about 1700 did the custom become general to English print. Meanwhile in England and Germany, another language sound, "w," had acquired its own letter: the "double U." Thus were born W and V, the two daughters of U.

U is refreshingly uncomplicated in sound. Its main English prounciations are two, short and long, as in "mud rales." Technically, long U is the high, back vowel and short U the low, front vowel (referring to the tongue's position in each case). Both these tongue positions occur also for certain pronunciations of O, as in the homonyms 'loot' and 'lute,' "son' and "sun." Typically, when U and O worthp in sound, O is poaching on U's territory.

The "oo" sound of long U is distinguished as one of three vowel sounds—the other two being "ah" and "ee"—that are gen-



#### The Tragedie of

#### HAMLET

Prince of Denmarke.

From Remarks, and Francisco, two Controls.

Hole there? Navaniwere me. Stand and unfolde your felle. Long hue the King. že.

Free. You come most carefully upon your houre,

Be. Tis now ftrooke twelfe, get thee to bed Freedon, Fran. Forthis reliefe much thanks, tis bitter cold, And I am fick at hart.

Re. Haneyou had quiet guard ? Free. Not a moult flirting. Se. Well, good night :

French, "double V").

If you doe meete Herais and Marcille. The rivalls of my watch, bid them make haft. Enter Heratio, and Marcellan. Fires. I thinke I heare them, fland ho, who is there?

Here, Friends to this ground, Me. And Leedgemen to the Dane, Fran. Give you good night. honeft fouldiers, who hash relieu'd you? From Bernards hath my places giveryou good night.

The letter U and her young family are much in evidence on the opening page of Shakespeare's Hamlet, in the London second-awarto edition of 1604, corrected and reprinted from the inaccurate 1603 first quarto. Although the sounds "u" and "v" were both used in Shakespean's Enolish, they are not distinguished in shape here: Either sound can appear as the shape u or shape v in lowercase text, with v reserved for the start of words (onfolde, opon) and u employed elsewhere (your, live, much, rivalls). The letter W is printed usually as we would recognize it, except in the drop capital of the first line-where its broken shape probably stems from the printer having no newfangled W letters in so large a

font, hence two V's were used. The VV reminds us of W's name, the "double U" (or, in

DAVID SACKS 417



(a) Phonesian letter way, the 'pge', 'no n. C. It come with in the alphothet and not the sound """ (a) Cork sulpidos, also are no. C. It instanted the Phonesian happe has to not the rowed sound "" and most 23 th in the early Govek alphothe. (b) A sentlent happe for U was favored in Bereacen swining by always no S. C. The Eironacen niters had have no god from the Govek and would in nor the expiral for the Roman alphother. (d) Doman carred U from the Tajoin Institution, A.D. 12.5, A which well near the apple, the forme conveyed both brilling and references they validating one or my of the letter and adding verify. In apolen Latin, this letter was promounced as ""in ediption would, "" in "Q Domanded I the threat latin, their letter was promounced as ""in ediption would, "" in "Q Domanded I the threat will happed they from a Listin measuring of the focus. For the near millimmism, this shape conclude with shape [V] both meaning the letter U. It have been are, rounded in the hope would enjoyee only prodegreen in resemble to look of their prima lowernam. (d) A doke to the Roman carred capital a evident in the U of the classification. Centers profices Adapted by American burn Rognes in requ.

erally considered the earliest sounds of infant speech, emerging sometimes by the second month of life. Baby talk at subsequent stages involves the child floating easily pronounced consonants, like "g" or "m," in front of these vowels.

With its evocative shape and name, U has made contribution to English vocabulary. A U-turn is faster and more hazardous than a K-turn, and engineers or scientists might use a U-frame, U-tube, or U-section. U meaning "you" is a favorite in rebuses like the old print ad "Recebosk let U B U" or the message on the letter board outside the church: "Ch. ch. What's missing:"

The stellar Irish rock band U2 chose its punning name partly in reference to an Irish federal unemployment-insurance form called a U-2, evocative of the world the boys came from, circa 1978. (The band UB40 is similarly named, from British unemployment paperwork.) A very different U-2 is the high-flying U.S. Air Force spy jet, named for the deliberately vague category "utility." This once-secret aircraft embarrassingly became a household word in 1960 after the Soviet Union shot one down, capturing its pilot; a more recent U-2 design has provided reconnaissance over Saddam Hussein's Iraq. The dreaded German U-boats of two world wars were submarines, named simply from German Unterseehoot, "undersea boat,"

U shares with letters C and O the oddly pleasing effect of a neatly curved shape. U suggests a horseshoe or magnet: strong, potent, made of iron. The nuance has been exploited in advertising and other print-not least in official emblems of, and other reference to the United States. After the disastrous terrorist attacks of September 11, 2001, among the most poignant and encouraging responses was a simple slogan, appearing in bus shelters, shop windows, and elsewhere, featuring a confident capital U: "I Inited We Stand"



prime minister Winston Churchill gives the "V for Victory" hand sign to a London crowd in June 1943, during World War II. Conceived by Churchill in summer 1941 to help boost British morale after

Britain's darkest war year, the V sign proved hugely popular in armies and homelands of the Commonwealth and, eventually, the United States, a symbol of defiance against Nazi Germany and Imperial Japan, Churchill had initiated the sign as a knuckles-outward gesture but had reversed it to thumb-outward after learning that the other one already had the vulgar meaning of "Up yours." Without a doubt, that continued nuance helped the V sign's popularity.

#### THE BIRTH OF V-NESS

ictory at sea. Venus in furs.

Venture capital. Verizon and
Viacom. The letter V can add
zest and drama to words it inhabite. Its compelling shape
and zippy sound imply purpose, immersion,
advancement. V could be a searchlight, a spear
point, a drill bit, a praying gesture, a ship's cutwater, or geese winging in a formation 80 million vears old.

Some of these associations appear in Thomas Pynchon's novel V, published in 1961, about two characters' time-chase from the 1950s to the 1910s in quest of a mysterious lady known as V. Throughout, the shadowy V. supplies a distant goalpost of enlightenment, until she is imperfectly revealed to symbolize both

the 20th century (French: vingtième siècle) and human sexuality: letter V as the goddess Venus or a pair of legs.

V and I share the distinction of being the youngest letters in English: Both were fully accepted into our alphabet only in the mid-19th century. Prior to that, although V and I were appearing systematically in print by year 1700, they were considered by some people to be consonantal variants of U and I, respectivelythat is, variants of the vowels they now follow in letter order.

V was born from U (so was W), while I was born from I. The histories of V and I run parallel. Both letters emerged as latter-day responses to vast European language changes that began before the Roman Empire collapsed (A.D. 500) and accelerated after. From the decay of spoken Latin came medieval Romance tongues like French and Spanish, containing new sounds not necessarily represented in the old Roman alphabet. Such sounds eventually demanded their own letters

But back in A.D. 100 or so, the Romans were doing just fine with 23 letters. That was all they needed for the writing of Latin words, plus a bunch of cultural-type words borrowed from Greek. The three letters absent were J, W, and V.

Here the reader may pause: No ancient Roman V? Wasn't Venus a Roman goddess? Wasn't there an Italian volcano called Vesuvius, a Roman emperor named Vespasian? Didn't Julius Caesar send home a postbattle message, "Veni, vidi, vici" (I came, I saw, I conquered)? So how no Roman V?

The answer is that the Roman letter in those examples was never V. It was U. only written as V and pronounced as "w."

According to modern analysis, spoken ancient Latin had no sound "v." The closest was sound "f," written as F. But Latin did have "w" sounds, often beginning a syllable, Caesar's boast would have been spoken as "Way-nee, wee-dee, wee-kee." Venus's name was really pronounced "Way-nus." A new country house was a villa now, "willa no-wa." In a line of verse by the Roman poet Horace, quoted in the preceding chapter (page 314)-Pulvis et umbra sumus (We are but dust and shadow)-the Latin word for "dust" was pronounced "pul-wis," sounding a bit like ashes on the wind.

To represent their "w" sound, the Romans used the letter U as a consonant. That was U's second job, Its main job was as a vowel. It was a vowel when placed before a consonant letter or at a word's end, in Latin words like munus (wall) and manu (by hand). But before a vowel letter, Roman U was recognized as consonant "w." The word quercus (oak tree), pronounced "kwair-cus," demonstrates both uses: U first as a consonant, then as a vowel.

The letter at the front of Latin words Venus and villa was the consonantal LL In Venus, the first and fourth letters look different only due to modern printing convention. Ancient Romans would have written Venys or, in informal style, Uenus, The shapes V and U were considered in those days to be the same letter, the letter U-a point explained in the preceding chapter. The spelling Uenus would show us modern readers that U was being used twice, in different ways, as in the word quercus. Compare our word "yearly," which begins with a Y consonant and ends with a Y vowel, yet offers no confusion. The context tells us which Y it is

Latin consonantal U had logic behind it. The logic came from the vowel U, which tends naturally to create the sound "w" in front of another vowel. You hear this phenomenon in English words like "nuance," "fluent," "suing." Most two-sound vowel combinations generate either a "w" (example: co-op) or a "v" (Fiona). The U being strong on "w," it must have seemed a natural choice to the Roman adapters of the alphabet, circa 600 B.C., to symbolize their sound "w." The situation mirrors that of Roman letter I, which also had a second job, as a consonant representing sound "v."

Consonantal U is still at work in modern Romance languages, in words like Spanish agua (water), pronounced "ah-gwa," and French huit (eight), "hweet." It occupies one whole corner of Enplish vocabulary, in uses after letter O. O hardly ever appears in English without being followed by two vowels, the first of which is U, almost always sounded as "w"-quart, question, inquire. English consonantal U occurs also after G or S, in a handful of words from Latin, French, or Spanish, like "anguish," "iguana," "suite," and "suede" (from Suède, the French word for Sweden, whereby the English "Swed-" corresponds to the French "Sued-").

Notice that these uses involve U near the middle of a syllable. sheltering in the lee of O. S. or G. That's the typical position where U for "w" has survived since ancient Rome. Yet in a different position, at the front of a syllable, it has been weathered and changed by time. In countless Latin words like victoria ("victory"). caverna ("cavern"), or pulvis ("dust"), consonantal U subsequently slurred from sound "w" to sound "v."

Let's follow the sound through a millennium or so. By A.D. 300, spoken Latin of the Roman Empire had begun shifting to new pronunciations, particularly of certain consonants-a development mentioned throughout this book, First, Roman "w" in many words slipped toward sound "b," allowing a more relaxed position of the lips, yet with no change in traditional Latin spellings. A new country house, still written as villa nova or uilla нона, was pronounced "billa no-ba," not "willa no-wa" anymore.

Modern Spanish, a language generally close to ancient Latin. retains this early evolutionary stage. In most regional accents of Spain and Latin America, letter V is routinely pronounced the same as B. Spanish villa (meaning "town") is pronounced "billa"; victoria is "bictoria"; caverna, "caberna."

Outside of old Spain-as the Roman Empire crumbled and spoken Latin broke into regional dialects that grew into medieval Romance tongues-the consonantal U slurred further, from "b" to "v." The fledgling languages French and Italian reached this second stage by about A.D. 900. A medieval Parisian would say ville or caverne with a sound we would call a V. (Compare with this the medieval French slurring of letter B itself: page 73.)

Next stop: England, According to modern scholarship, the Old English of 1000 already had its own "v" sound, courtesy of prior development in the Germanic language family. The Old English sound survives today as the V in "love," "drive" (as in herding), "even," and other words dating back to the Anglo-Saxons. The Old English alphabet-with no legacy of Latin consonantal U-denoted the sound "v" with the letter F. Archaic "love," pronounced "luv-uh," was written lufu. That was F's second job, for it also represented the sound "f."

Sounds "f" and "v" are as close as two consonants can be. Classed together as dento-labial fricatives, they both involve air being pushed through the barrier of your front teeth against your lower lip. The main difference is that "v" engages the vocal cords while "f" does not. To write the letter F for both sounds was adequate for Old English. Yet that usage would soon be hosed away in history.

The Norman Conquest of 1066 brought French vocabulary and spelling rules to England. By 1300 medieval English had been enlarged with thousands of Norman French words, many incorporating the sound "v"-for instance, caverne, victorie, and village. The written symbol for French "v" being V or U, this system was imposed on native English words, also, eventually producing modern spellings like "love" and "drive." If you could ask an educated Londoner of 1400 to name the first letter of "victorie" or the third letter of "love," she would say it was U, used as a consonant,

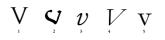
The letter-U chapter here has sketched the somewhat tedious issue of shape V versus shape U in medieval writing. Both shapes occurred interchangeably to mean the letter U, including consonantal U. A written U could signify sound "u" or "v"-and ditto a written V could signify either. Shape V was the prevalent capital form: shape U often appeared in minuscule styles.

A step toward order had come by 1400, with the practice of writing V at the start of a word and U at other positions, regardless of sound. The custom was observed in Italy, France, and Enpland for writing those countries' languages. Late medieval English manuscripts show spellings like vpon and vse, vile and victorie, loue and euer, and rule and huge, a practice maintained after printing's arrival in England (1476) and reflected in such print documents as the original King James Bible (1611) and the Shakespeare First Folio collection (1623).

Two symbols, two sounds. By about 1650, a need was felt to bring sounds "v" and "u" into line, obviously by giving each to one symbol, U or V. But which to which? Conceivably, the sound "v" could have gone to the shape U. Here the path had been cleared by certain printers in Italy and France, who in the latter 1500s had begun to print "v" as V exclusively. The choice had been prompted by the prior stage of usage, where shape V had normally appeared at the start of a word, regardless of sound. By nature of the Italian and French tongues, the V shape in that position had captured the sound "v" far more often than "u," and so the association arose. By 1700 it was standard in English, too.

The new letter's sound helped supply its name. English "vee" comes from the letter's French name, vé. Theoretically, the letter could have been called "voo," meaning "the v-sound U," vet this nowhere happened.

Like its fellow latecomer J, the V had to wait about another 150 years before being finally accepted as a letter of our alphabet. Until around 1840, some scholars (not all) treated V as a variant of U and I as a variant of I, thereby recognizing only 24 letters. A 26-letter alphabet, with I and V, appeared in London schoolmaster Thomas Dyche's Guide to the English Tongue of 1707 (vet notice the interesting letter order in his chart, page 328). But Samuel Johnson's landmark 1755 English dictionary held the line at 24 letters, thus delaying I and V's official arrival by at least 75 years.



(a) The activate Roman U of sume-carred incorptions has supplied the shape for we modern
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prior V. (c) From a cliai memocarrip of infly of the entry times 1.0, this inheld leave, higher
intig the word Veria (imperative Comer), anticipates not not for another made opplace Very
the commones used Veria has to the date of the oran orange made in the greater and the common to the commo

Although Johnson uses V and J in spellings throughout, he excludes them from the letter list. His dictionary headings run "H, I, K" and "T, U, W" The "U" heading presents all words starting with U or V in one alphabetical sequence, Johnson's first U entry is "U" meaning the Roman numeral for s, followed immediately by "Vacancy" and "Vacant," then eventually by "Vagrancy," "Valley," and "Vat". After the Va-5 finish, we come to "Ubiquity" and "Udder," then eventually "Veal" and "Ugly". Significantly, Johnson prefaces an editorial note regretting that "the old custom" prevents him from treatine U and Vastrately as they deserve.

J and V were still being excluded from the British alphabet as late as 1836, in Charles Richardson's New Ditionary of the English Language. Yet a milestone had been reached in Noah Webster's American Dictionary of the English Language (1828), which presents a 26-letter alphabet, including J and V.

V contributes modestly to our vocabulary. The V-8 car engine, available since the 1915 Cadillac, was named for its two rows of four cylinders, each row standing at an angle, forming a V in profile. The V-chip is a TV-reception scrambler, named originally for

#### A Guide to the English Tongue.

### PART I.

#### English Letters. Roman Letters. Italian Letters. The Names of

	-				the Leners.
aprocrational modely because of the second s	a b	A	1	ABCDEFGHI JKLMNOPQRSTVUWXTZ	ay bee dee eff jee ayeth i jay ell cm en o pee cu ar fes yu double yu double yu double yu zeds
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t JE		F	f	F	eff
gσ	g	G	8	G	jee
h fo	h	H	6	H	aytfh
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Not as a printer own, leave V prototed U in the alphobes of Thomas Dyche A Casilos to the English Tomage, published in Landon in 1779, Among the states shaken to new V and J as soverege letters. Dyche waves as a time whom their place in alphobesius of great that the color in relationship to Land J so I. The logic in paining V first is that, if you meat V and U as equivalent and start limit all the logic in paining V first is that, if you meat V and U as equivalent and start limit all the V-could and U-could register the V-breach that is from alphabetically been did be "you can" and "w" attach the V to an A, while U to must use fir B in order to form an December of the W to an A, while U to must use fir B in order to form an December of the W to an A, while U to must use fir B in order to form an December of the W to an A, while U to must use the D in order to form an December of the W to a M. A while U to must use the W to order the A mandoment of J the U to the W to th



A retired Sir Winston (with his wife, Clementine) jubilantly exchange V signs with well-withers sometime in the early spoke, not long before his death in 1995, After the war, the V remained Clemethill's personal signature in politics and other public appearance. For the last two decades of his life, he resainely meet demand by news photographers and supporters to "give so a V."

"viewer" when first issued in the mid-1990s yet now more often thought of as meaning "violence."

But the most famous V of all has been Winston Churchills "W for Victory" hand sipn, myhol of British defiance and resolve during World War II. Churchill launched the V sign in a now-famous speech in Parlament in July 1941, just when events had begun to suggest that Hitler might not win after all. (tronically, Hitler laurc launched his own V's against England: the V-1 and V-2 flying bombs, named from German Freghungungf, "retalision waepon.")

Churchill's V was powerful propaganda—yet perhaps not so powerful a claimed by mystical British scholar Alfred Kallir, who theorized that the whole Allied war effort was being boosted by cosmic energy, channeled down through the letter's shape, imitative of a praying person's hands. It was, as Kallir touchingly asserted in a postwar booklet, The Vistany of V.



This W has legs. Republican presidential candidate George Walker Bush makes his threefingered W sign to supporters in Tampa, Florida, in November 2000, days before the election. Referring to the middle initial that distinguishes Bush from his father, President George Herbert Walker Bush—and modeled on Winston Churchill's "V for Victory" (see page 320)—the W sign perhaps belyed "Dubya" to his userow victory over Democrat Al Gove.

#### useful W

idest of all our letters in standard typeface, W is more than just an M turned upsidedown. While M stands

securely on two vertical legs, W's arms typically angle outward, commemorating W's early days

W symbolizes a sound that reaches back to the ancient Germanic roots of English. Technically, it is the voiced bilabial semirowet—one of two consonants (the other being Y) that sound through your open throat in much the same way as a vowel does. The term "voiced bilabial," as we all know by now, just means that W uses your vocal cords and both lips.



Esirly dwarfing the M in width, W surely has its own shape in the celebrated 1927 sam-serif typeface called Gill Sam, designed by Englishman Eric Gill. Not all designs so strongly distinguish the two letters.

With no subtle tongue positioning, "w" is one of the easier letter sounds for English speakers to say. Babies can say it ("we-wai"), and many children and some adults may substitute it for the more complex "t" sound, as in "Wudolph the wed-nosed weindeeh."

W has a most interesting history. The 24rd letter of our alphabet, it was chronologically the 24th to join our English alphabet, somewhat ahead of rear-runners J and V. The W was invented during the first millennium n.D. to answer a specific need of language. It exemplifies how letters can be created to accommodate speech.

As mentioned elsewhere, the ancient Roman alphabet had only 23 letters: no W, V, or J. Those three came into general use during the Middle Ages or Renaissance, abetted after the mid-1400s by the printing press. V and W were born as variants of U and now follow their mother in alphabetical order. Today U is commemorated in the name of W, the "double U."

During ancient Roman times, U did the job of our W. Prior chapters have detailed how Roman writing used U to show both the vowel sound "u" and the consonant sound "w." The Latin word quase (horse) demonstrates the "w" sound in its first U, while the second U takes the familiar "u." This U with two has was fessible because the Latin "w" sound occurred only before a wowel; thus, a U written before a wowel would almost always be consonantal. But then spoken Latin gradually lost much of its "w" sound as promunciations sharred, over centuries. According to modern analysis, by A.D. 300 Latin "w" had disappeared from the heads of syllables, replaced by the sound "h". Following the Roman Empirés fall in about 500, the "b" supered to "w" in early medieval French and Italian (tongues derived from Latin). Eventually these changes militated the invention of the letter V.

The Latin "w" sound survived mainly in uses in midsyllable, such as after the letter Q. Here it continued to be shown by the letter U, as in our words "quantum" or "frequent."

So: Sound "w" disappeared from much of late Latin, and letter U came to symbolize what remained of it. Neat, simple, and yet... Life and language being sometimes complicated, the Latin

sound "w" occasionally did hang on at the front of a syllable, where by the rules it should have turned to "b" instead. This happened in a few deeply ingrained uses, like place-names. Modern epigraphiss (scholars who study old writing) find relevant evidence in place-name spellings in extant inscriptions and manuscripts. For example, the eastern-Italian mountain region that the Romans called Seuo ("Seh-wo") apparently retained is "w" sound during the empire's final centuries, never slutring to "Seh-bo" as logically it might have. As early as A.D. 150, the name's spelling begins to change in extant inscriptions, from Seuo to Seuo—a doubling of the U. This seems to be ancient writers' wav of showing an abiding "w" sound.

Such evidence suggests that a doubled U was an informal device used by Latin writing of the later Roman Empire to represent the old "w" sound that survived (although rarely) at the head of a syllable in spoken Latin. This double U was destined, more than 1.000 verso on, to become standardized as W.

Meanwhile, outside of Latin and early medieval Romance tongues, the sound "w" thrived in the Germanic language family of Northern Europe. The Anglo-Saxons who invaded England from northern Germany (latter 400 A.D.) said "w" all the time: Think of "Wotan," "wassail," "weapons," "witches," "woods," and "wine," and you've covered most of their hobbies. On the continent, German sounds of "w" show up, represented by Latin-style double U's, in the earliest known book in German, a rhyming translation of the Gospels written at Weissburg, in Alsace, in around 865, [During a later era, in northern German, at least, the "w" sound would shift esenably to "v".]

Germanic "w" was native also to the Vikings who sailed from Denmark and Norway to plunder and capture parts of northern France, northern England, and elsewhere, starting around 800. By 1000, in Viking-occupied Normandy in France, the infusion of Scandinavian occubalary had created Norman Franch works that used "w" while Parisian French did not. Particularly, Norman "w" might occur as an opening sound in place of mainstream French "g".

For example, the medieval Norman French word for a document partial pathority or security was assumf (ancestor of our "warrant"). This was a variant of the French word guannt (as in "guarantee"). Similarly, a Norman French border castle might have a vandien insunde William, carring a nege and ready for usure, whereas on the royal French side the same thing would be guarden Culliums with his soar, ready for users.

Thus possessed of this un-French sound "w," the medieval Normans needed a way to show it in writing. Their solution: the double U of late Latin and of German writings.

The English meantime had their own way of doing things (no surprise). The citizens of Anglo-Saxon England used a Roman alphabet that omitted J. Q. V. and the irregular double U. Yet in order to accommodate Old English language sounds, the Anglo-Saxons had supplemented their alphabet with four non-Roman letters, two of them invented in England and two borrowed from The Anglo-Sauon letter called wyn (or wen), representing the Old English sound "w: "Wyn would disappear from English writing by about 1300, displaced by the Norman double U.



northern European tradition. (See "Tales of TH," pages 308–9.)
One such letter, called wyn or wen, looked like a second P but denoted the sound "w."

Medieval England was destined to be a fertile breeding ground of the letter W. In 1066 the most famous William of Normandy, Duke William the Conqueror, Ianded an army in southeastern England, defeated an English army, and grabbed the English throne. The Norman occupation changed everything, including, gradually, the speaking and writing of English. Among other developments, English upn eventually disappeared, pushed out by Norman double Norman double Norman double Norman double Medie Norman double Nor

Like its sibling V, but to a less extreme degree, the double U pent a few centuries being viewed as a variant of letter U rather than a letter on its own. Its cause was helped by printings' arrival in England (1476): The double-U shape was necessarily included with other metal letter blocks for printing English, and so its status as a separate letter became secure.

During the 1500s, W started to be admitted to the letter list, as taught to English children at school. It was inserted into the order next to its mother, U, either before or after. Richard Mulcaster puts W directly after U in his landmark English grammar book, The Firm Part of the Elomentic (1543), yet the "double-un" spelled out, comes fefore U in a 1597 written recitation of the alphabet set to music by English composer Thomas Morley. Thomas Morley. Thomas Morley. Thomas Morley. Thomas Morley is a strength of the English alphabet list.

The shape of English W emerged during the centuries 1100 to 1500. The rounded double-U shape of late Roman script was the

common handwritten form in days before printing. (Today it is preserved in our lowercase script w.) But with the advent of print, type designers in England eventually produced a double-V shape, in reference to the V-shaped U of ancient Roman stone inscriptions. Some early typefaces showed the two constituent V's as slightly separated: VV. More often, they touched or overlapped: W. In Germany, a print W had been used since the 1470s, with a

shape based on traditional German handwriting: W. Todav W represents mainly the German sound "v." due to changes in German since the Middle Ages. Many modern German uses of W for "v" correspond to English W for "w" in related words, for example: Wasser ("vahsser"), "water"; wunderbar ("vuhnderbar"), "wonderful"; Wilhelm ("Vilhelm"), "William."

The W fared less well in southern Europe. The sound "w" having largely departed from late Latin, the Romance languages of 1600 were in no desperate need of a new letter in this category. The legacy of ancient consonantal U sufficed to cover surviving "w" sounds, as in Italian Guido or Spanish iouana. To this day, W is not properly a letter of the Italian or Spanish alphabets, although it is employed to render foreign words already in print.

French, likewise, was very reluctant over W. French got along fine with consonantal U to show "w," as in the word snave (which English shares). To show an initial "w," French employed the combination OU-, as in out, meaning "ves," or ouest, pronounced "west," meaning "west." Not until the late 19th century was W accepted into the French alphabet, the last to arrive. Previously the alphabet of Victor Hugo and other French authors had 25 letters, no W.

In keeping with this tardy recognition, the French name for the letter describes the print shape-double vé (double vec)whereas the English name describes the earlier, handwritten shape. It is the only instance of an English letter name inspiring a French one, rather than vice versa, Today French W remains rarely used, except for foreign-derived names and English-borrowed words, in which it tends to be pronounced "v," as in suggen-lit (railroad sleeper car).

Certain English words like "answer" and "two" hold a silent Was at one time pronounced—a fact hinted at in the related words "swear" and "twain." In an anxious line from Shakespeare's 1607 tragedy Antony and Clopatna, "Our Italy shines o'er with civil swords," the word "sworts" would have been spoken much like "wars," which is the contexts meaning.

The letter combination WH-, occurring mostly in words of mice lengths origin (white whale), usually commemorates the medieval English spelling HW-, which was pronounced just as "lw." By 1300 the two letters were being transposed in English writing, partly to look more Norman and genteel. Today the H has fallen silent in almost all such words. Yet a very few, for complex reasons, gradually saw their W fall silent: whom, whole. The situation would be trivial except that it prompted a memorable comment from Samuel Johnson in his 1753 dictionary. "In whor only, and sometimes in wholeome, who is sounded like simple k."

## V Juu VV W

(c) Clanical acuirus Roman U. An. 175, Shaped for carring into some, the learn could be read to action "a" or "in course. (2) The deadle U. here in Carrillages interacted of the Son action" a "or "in course. (2) The deadle U. here in Carrillages interacted of the Son demont the sound "a" in the writing of fast Latin, early melleral German, and Dorman French. (2) Cordinating both elements of the sea the solven Weet to be opening page of the Hamles cound-quarte edition of first (shown in full on page 177). By that date, English W uses were resultdy privated as single, continuous longs, (2) The Intern Sintrain Indextyneut all activation of the Carrillage of the Carrillage Internation (1922). The Carrillage Internation Indextyneut all activation of the Carrillage International Carrillage International Carrillage International International Carrillage Son and was one of the world into an existence and the man action carrillage.



Forbidding X. Notations like this one began appearing on movie posters and other advertising in 1968, after the American Motion Picture Association of America introduced audience-related ratings. The X stood for "extreme," which was the category including pornography—but not only. One X-rated film, Midnight Cowboy (1969), about a young Texan's misadventures in New York City, went on to win three Oscars, including Best Picture. The "X" cateoory has since been renamed as the less-notorious-seeming "NC-17" (meaning "no children, 17 or under, admitted").

#### LIVING WITH YOUR X

enophobia means "fear of foreigners," and no word better
displays the alien and forbidding spirit that once belonged
to X. True, the letter has mellowed in the last 12 years or so. But in olden
days—before there were X.Filex, X. Games, or
the Xbox—the X was an outsider, slightly sinister, sparingly used.

Thirty years ago X stood mainly for a movie off-limits to kids or for the "poison" warning on a product label. If X marked the spot on a treasure map, you could bet it was someplace remote and dangerous. Remote if fabulous was Xanadu, capital of Kubla Khan in Samuel Coleridge's poem of 1798. The X-Men of 1960s Marvel comic books were mutant superheroes:

good guys but, well, mutants. Even the gas called xenon (abbreviated as Xe on the elemental chart) was never exactly the substance next door. Indeed, the name "xenon" means "foreign thing" in Greek, carrying the same word root as in "xenophobia."

Some of X's mystery comes from its low rate of use: In printed English it ranks second or third to last, above Z and (in some surveys) Q or J. As an initial letter, X ranks dead last: It's the one that appears least at the start of English words.

Yet more important to X's mystique is its traditional job denoting an unknown or unrevealed mathematical quantity: "If 3X = X + 3, what is X?" (Answer: 1.5.)

This use of X was introduced in 1637 by none less than French philosopher-mathematican-cientist Rend Descartes in his treatise La Géométrie. Descartes assigned letters X, Y, and Z to symbolize any three unknowns in a geometric equation, but he froword X (see "Why Int Z the Unknown?"; page 314). The association struck: Down later centuries of math and science, X came to be used almost as a question mark.

In 1895, when German physicist Wilhelm Konrad Röntgen discovered a strange new radiation, he called it the X-ray because he didn't know what it contained. A similar scientific fog enstrouds such 1950s and '60s sci-fi movie duds as The X from Outer Space, Strange World of Planet X, and X—The Unknown.

In faction and even journalism well into the 20th century, the letter X might be published in place of someone's tume, to preserve anonymity and guard against libel lawwiis, a custom reflected in the title of a sally 1938 Laurence Olivier and Merle Oberon movie, The Diewer of Laby X. Smilarly, in 1932, American Black Liberation advocate Malcolm Little, to commemorate his forgotten African lineage, changed his name to Malcolm X. And who above age 40 could forget the disesteemed "Brand X", the name used in certain 1960s TV commercials to olosk the identity of the competitor's product being shown as inferior to Lestoil floor cleaner or Brillo scouring pads?

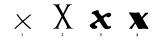
If X had any place in genuine product names of those days, it was for something dangerous or racy—perhaps literally so. The U.S. X-1 aircraft (X for "experimental") was the first to break the sound barrier, in October 1947, with a young Chuck Yeager pioting. The next year a British motor company launched the first Jaguar sports car, the XK 120, in which X stood for "experimental engine," K for "11th in development," and 120 for the top speed in miles eet hour.

In 1968 the Motion Picture Association of America introduced lettered rating to alert moviegoers to levels of sex, profanity, and violence in new releases. At the adult-content end of the spectrum, R stood for "restricted" and X for "extreme"—the category including pornography Practically overnight, X took on a new association in the American mind: dirty, explicit sex.

Thus, by the end of the 1960s, X could mean either "mystery," "danger," or "sex"—a memorable combination. X was the Unknown, the Sinister, the Extreme. Subsequent decades have seen the letter's public relations improve dramatically. But first, some background.

X comes to us from the ancient Roman alphabet. Originally it was the last of 21 Roman letters, but by about A.D. 100 is had been joined by two added rear-numers: Y and Z. Roman X represented the "ks" sound in Latin words like rex (king) or exit (he goes out); its name was formed by prefixing a wowel to the sound: dest or ex.

The Romans had acquired the letter, and probably its name, too, in copying the Etruscan alphabet, around 600 B.C. Previously the Etruscan letters had been copied from the Greek: Etruscan X had come from the letter kis of the West Greek alphabet, used by Greek settlers at the Bay of Naples. West Greek kie carried the



X's simple, distinctive shape has changed little over the millennia. (1) Letter ksi of the West Greek alphabet, about 700 B.C. Coming toward the end of the alphabet and carrying yound "ks." this Greek letter was copied into the Etruscani alphabet to become their letter eks., or X. (2) The elerant X of Roman carved inscriptions, around A.D. 113, had one bar slightly widered. The letter symbolized a "ks" sound that occurred at the middle or end of Latin words. (3) An inked X in the uncial handsoriting style, 600s. Although designed for the pen, the shape made reference to the Roman capital. (4) An X in the 1925 typeface called Broadway reflects prior traditions, more so than you might expect.

sound "ks," fell near the end of the alphabet, and took the shape X. Scholars theorize that the Etruscans changed the name to eks to better demonstrate the letter's sound in their language, because while Greek ksi might often begin a Greek word or syllable, the Etruscan "ks" sound came never at the beginning of a syllable but only at the end, with a yowel preceding. Much the same rule has held for Latin and for English (see below).

Passing to the Roman alphabets of medieval European lanpuages after Rome's fall (A.D. 500). X became an English letter. Its "ks" sound occurred at the middle or end of Old English words. not at the beginning. Today the Anglo-Saxon sound is retained in old words like "Saxon," "ox," and "mix," while words delivered through Norman French may have a softer X (luxury, anxious) or not (tax, execute). At the start of a word, X takes yet a softer sound: "z," as in "xylophone."

Most modern English words starting with X derive from an-

cient Greek xylophone (wooden wice), xanthine (yellow), xiphoid (wood-shaped). The name Xena—warrior princes'of comic books and TV—means "foreign lady." The name Xenox takes off from Greek xens (dry), as in xerography, a dry copying method perfected in the late 1950s to improve on mimeographing.

In such X-words, our X represents what in the original Greek was that letter kit, sounded as "kt," Greek xraw was actually pronounced "Skelt-os," The Athenian author-solder-gendeman Xenophon would have called himself "Kschnophon." His name meant "foreign moice," and too foreign indeed for the start of an English word was that Greek "kt," which has softened systematically to "z" in English borrowings. But only where it falls as the first letter. In other placements, in coundess Greek-derived English words, letter X still carries its authentic Greek sound: exodus, lexicton, oxygen.

Since the early 1990s, X has come roaring into the mainstream, to the extent that it is one of the defining letters of the new millennium. Like Q, e, and i, the X has been drafted for



The 'solve' Greek X. In the Christian symbol known as the Cross of Constantine (whose meaning is explained on the Cross of Constantine (whose meaning is explained on Explained on Section 19 and Cross Constantine), which was constantine to several 'the 'Cox' X. meanwhile, comes from the yound 'the 'Cox' K. meanwhile, comes from the younded X. was shared, with two different meanings, the corner now servines of the early Cross diplotes: the East and West Cross X. One alphabet descends from the West Cross Versical Security of Cross Versica, while the East Greek versically became of fivial for nations and modern Greece. See the chart on page 64.

#### WHY ISN'T Z THE UNKNOWN?

According to legend, a 17th-century printer's problem helped X to land its major job symbolizing something unknown. For the many equations in his now-famous 1637 mathematical work La Géométrie, René Descartes chose letters A, B, and C to represent any three constants and X, Y, and Z to represent any three unknown quantities. He intended that Z be the first unknown (corresponding to A), with Y second and X third.

But the story goes that the printer, while typesetting the manuscript, found himself repeatedly running short of letter blocks for Y and Z, due in part to Descartes' many equations calling for these letters. However, the printer still had plenty of X's, a letter that in Frenchlanguage print is used far less than Y or Z.

So the printer wrote to Descartes, asking whether it made any difference which of the three, Z, Y, or X, appeared in equations of one or two unknowns-and might X be the preferred letter for printing purposes? The great man replied that this was acceptable. And that is why the Géométrie tends to favor X as the letter of an unknown quantity, especially in the second half of the treatise.

marketing and advertising; it now signifies something like "computer magic and control" or "cutting edge." Witness such software company names as X-Collaboration, Xpoint Technologies, and Xvision Eclipse, not to mention X-Ceptor bioresearch and Germany's X-Filme production company (Run, Lola, Run). Microsoft's Xbox video game console actually carries an X across its top: a plastic repoussé shape that seems to hold it all in there. In its look and name, the Xbox promises fun and control, across the board, for the whole family,

Brand names like these-which in part exploit X's rarity in normal English-would have looked really odd 30 or 35 years ago. In 1972, when the X-rated film Deep Throat was out, a prodFrench philosopher-mathematician-scientist René Descartes (1596–1690) in an engraving based on a famous portrait by Dutch painter Frans Hals. Best remembered for his philosophical statement "I think, therefore I am" (meaning, perhaps: "To

deable is a approach reality"), Descartes changed his contemponetries way of seeing the world and anticipated an era of science and anticipated an era of science and reason. In his most important mathematical work, La Goométrie (1653), he pinnered the way oligibus for solving geometric problems. Here the world wound the picture frame include his title: "highly large large large large large large princip, Personably it is put concidence that the armoral badge at hostom exerce whom an X shaw.



uct name like "X Box" would have seemed laughably obscene. Today corporate choice of trademark X belongs to a new climate, in which the letter has been rehabilitated.

How so? One groundbreaking change in this direction was the 1991 fiction best-seller Generation X: Tales for an Azulenard Culture by Douglas Coupland, Published during a recession, the book addressed the diminished expectations of American postably Boomers, born between about 1965 and 1975; is title played on the Brand X of 1960s TV. Soon the media were referring to 20-somethings of the early '90s as "X-ers." (By the late '90s we had "Yes." too.)

Computer jargon had changed, too, by the early '90s. The development of the X Window System for graphics display (1986)

was followed by the popular QuarkXPress software program (1987) and the arrival of mature desktop publishing. Soon capital X began to imply "page-layout software" in brand names. Today we have Xpert Tools, Punch XT, Xdream, and HexWeb XT, all software "Xtensions" of basic Quark programs. In addition, there's the whole Window "X Server" software category: SecureX, X-ThinPo, WinnXe, and so on.

Then came The X-Files. Debuting in 1993 and tuled for the raditional X of mystery, this Fox TV hit series—about two good-looking FBI agents pursuing evidence of an alien-planet conspiracy to take over the world—helped to normalize X and give it associations of thrills and pleasure for millions of the show's fams. By the time the series folded in 2002, X had reached legitimacy. It want's just for porn anymore.

The custom of writing X's for kisses in signing off a letter thate from the Middle Ages, when much of Europe's population remained illiterate. On legal documents, in lieu of a signature, a person might write an X or the sign of the cross. The signatory would then kiss the X, to promise to solic to the agreement. Over later centuries, the written X came to mean not the signature but the kiss.



our moral choice in our conduct of life, in an ink drawing from Geofroy Tory's 1529 treatise on the letters, Champ

A Roman capital Y symbolizes

Fleury. The broad and eary road of vice delivers violence, punithment (scourging road, a penal yoke), and Hell, while virtue's narrow road brings honor and office: a laurel wreath, a scepter, a crown. Associated with a legend about the young Hercules, in which the future hero had to choose his life's direction, the fork of a road wat a popular symbol in Renaissance writing and art.

# THE WHEREFORE OF Y

ou were born with your legs apart. They'll send you to the grave in a Y-shaped coffin." This farcical rebuke goes to the imperious hypocrite Mrs. Prentice from her equally reprehensible husband in English playwright Joe Orton's subversive 1969 comedy, What the Buller Sau:

The letter Y's forked shape has inspired thinkers throughout history—although usually in terms less sensational than Joe Orton's. The 16th-century French type designer and scholar Geofroy Tory found in Y the symbolized choice between vice and virtue (see facing illustration). The French author Victor Hugo, in his 1839 Third Notebook; rhappodized thus: "Have you ever noticed that the letter Y is a picture-sque letter."

open to countless different interpretations? A tree is in the shape of a Y; the fork of two roads forms a Y; two rivers flow together in a Y; the head of a donkey or that of an ox is in the shape of a Y; the stem of a glass is Y-shaped; a lily on its stalk is a Y; a man who prays to the heavens raises his arms in the shape of a V"

Y is the only letter commonly used as both yowel and consonant in English. As a vowel, it overlaps with letter I, often pronounced like short or long I (myth, fly), although sometimes like long E (messy) and occasionally as a schwa (myrtle, satyr). In "say" and "boy," vowel Y forms a single sound with the preceding vowel, similar to the double-vowel combinations in "paid." "void," and many other words.

As a consonant, Y in English has one sound: the "y" of youth and yearning. Technically known as the palatal semiyowel or voiced palatal spirant, it is pronounced with the tongue poised below the palate and with the vocal cords engaged. The title "semivowel," shared in English phonetics only by W, means that the letter's pronunciation approaches a vowel sound in the way it uses throat and vocal cords

The symbol Y has never had a monopoly on representing the spoken sound "y." Native to Indo-European languages including Old English, the sound has been to a lot of places where written Y hasn't gone. For example, modern German and Czech write "y" as the letter I: German "year" is lahr, pronounced "yahr." Ancient Latin had a common "v" sound, which it wrote as a consonantal I (see Chapter I, pages 184-90).

Even English at one time had no consonant Y. For the first 600 years of English writing, from the 600s A.D. onward, the sound "y" was shown with a symbol called a yogh, one of four Old English letters not from the Roman alphabet. Only after 1200 did letter Y start to take over in representing the sound "v."

Thus Y can be thought of as two different letters, vowel and consonant. They look identical but have distinct personalities, and the vowel is the elder by more than 2,000 years.

Let's tackle vowel Y fint. As mentioned several times already in these pages, the ancient Greeks had a vowel letter called upsilon, which took a narrowed "u" sound and looked just like our Y shape. Like other letters of the early Greek alphabet, upsilon was copied into the Erruscan alphabet (700 nc.2) and thence into the Roman alphabet (600 nc.2) as the letter U. Thus spilon is the grandmother of our U.

But unlike most letters, upulow gave birth a second time into the family of Lain and English. Around A.D. 100, one 700 years after the Roman alphabet had been created, the Romans added two more letters, which are our Y and Z. The two were copied directly from the Athenian Greek alphabet of the day. Z was the Greek comsonant zeta; Y was the vowel upulou (again). The Romans imported them expressly for help in transfitzating Greek words into Latin, a need created by the influx of Greek technical and cultural vocabulary into Roman science and society during the prior centuries. The Roman called their Y letter upuline, and with it they were better able to write such useful Greek terms as symphomia; ymmortia, and stylue.

The point of creating a Roman Y was that Greek upsilon sounded different from Roman U and thus properly needed its own Greek symbol for Latin spellings. To Roman ears, Greek upsilon probably sounded halfway between "u" and "i." Therefore, Roman Y probably sounded that their like "ii" too.

Evidence suggests that by the late Roman Empire (A.D. 300), Roman Y was being pronounced the same as Roman I. The situation is commemorated imperfectly in the modern French and Spanish names for Y: i gree and i griega, "Greek I."

Whereas ancient Roman Y was confined to words borrowed

from Greek, Y in the early Middle Ages, AD, 500 to 1000. began to spread to other words in written latin, French, English, Scribes would often substitute Y for I as a way to break up a row of pen strokes that otherwise would be difficult to read, For instance, the Latin word for "impassible," written as immiss in medieval script, would be a bunch of short strokes; by spelling it youygon, the writter made it more legible.

Medieval Y was often dotted, suggesting a form of I. Likewise Y's peculiar English name "wye"—dating from the Middle Ages and never adequately explained—seems to relate to letter I.

Partly for legibility but partly through appeal of its handsome shape, Y enjoyed a heyday in English spelling between about 1250 and 1600. Extant writings show Y instead of I all over the place, even in uses like "hys" that would not have been hard to read with an I.

The spread of printing in Britain in the 1500s removed the legibility issue and had a standardizing effect that gradually returned many word spellings to L. Today the old Y versus I rivalry can still be glimpsed in such alternative spellings as flyer/filer, cyper/cipher, and tyre/tire.

Yet the medieval Y fid did leave one large legacy: Y s plam job representing any final "i" sound in English. Today we use a "-y" suffix that encompasses four diverse categories: (1) algectival forms of Old English words (stony, mighty, my); (2) nouns from Greek, Latin, or Old French that originally had endings like -ia, -ium, or -ie (empathy, remedy, tally); (3) other anglicizations (Henry, from French Henri); and (4) certain diminutives (Jimmy, kitre, dummy).

Elsewhere Y still does the work the Romans hired it for transliterating Greek upsilon in countless Greek loan words like system," "phylum," "hypodermic." A word like "sympathy" shows two different layers of Y use: After the ancient Greeowhen he wetare not of almostrate. All to now common to the dischery of highways who provide by a finally about the called redemand we their the high first to have a virging community and then a fine to which the their both from which contain the west the found in the west the found to the common the common that the provides of their had been byte and the west nowming offer they had been byte and the west nowming offer they had been byte who were the found of the house spline; but to late on the work of the house spline; but to late on the work of the house spline; but to late on the work of the house spline; but to late on the work of the house spline; but to late of the work of the house spline; and lay to the found to the house spline; and have the house the contained by world and flow it work to the contained of the house spline to the house prefounds; for the spanning to consider them place called two world a late of and house of the spline that the flow that he had the house anexary the wyth before to a very before the a very been also place called two world a late of and

"... But no lan, for the Frenchmen beying greepe of spoyle and springe some advansage, entered and lead webying, saing the equipsion, to, by soyle, and by some daughter..." (test beginning at middle of photograph). The Y1 show as thickly as the result blades in this letter of y152, from young English molbourus Barnaby Fitzpatiste to Eregadost King Eduard. Vir reconstain Ejitzpatis' copression on military cansaging with King Henri II of France. In English handwriting of the era, vowel Y offered a legible and handourus advantation.

Latin upsilon of sympatheia, there comes the handy anglicizing -y suffix of medieval English.

Today Y is treated purely as a wowel in many languages of northern and eastern Europe, such as German, Swedish, Polish, and Czech. While these tongues include a frequent sound "y," they write it, as mentioned already, with the letter J. (As to the sound "i," they either omit it in speech or they show it with a variant letter G.) In German, Y appears mainly in Greek-derived words like Psychologie and symbolisch, where it represents the original Greek upsilon. In fact, Y's name in German is üpsilon.

Now, as to Y the consonant. This aspect of Y-one of the most characteristic English spelling traits, in which the English uses the letter differently from many other European tongues-goes back to medieval French. Emerging from late Latin at the start of the Middle Ages, French inherited the Roman alphabet of 23 letters, including a vowel Y (as in medieval French symphonie) and an I that could be either a vowel or a consonant (as in iustice, pronounced "joos-tee-seh"). But French writing began to use Y more often than Latin had, substituting it for I as a vowel or a consonant, Gradually Y came to denote the French consonantal sound "y," particularly at the start of a syllable, in medieval spellings like yeulx (eyes) and ioyeulx (joyous). Spanish, too, developed this use of Y. although Italian did not.

Like all French spelling rules of the day, the Y consonant was forcibly imported to England with the Norman Conquest of A.D. 1066. Here Y found fertile soil. For whereas the consonantal sound "y" was a minor part of spoken French, it occurred far more frequently in the northern European tongue of Old English. The Y had suddenly gotten a big promotion, much like its sibling W, for the same reasons.

Let's have a quick look at England before the Normans came. Mention has been made, at the start of the chapter, of the Old English letter yogh, which was a squiggle shape resembling a modern lowercase script Z. The Anglo-Saxons wrote vool for their prevalent sound "v"-a sound found today in such grand old words as "Yule," "yoke," and "yeoman." Theoretically, Old English could have chosen to represent the sound with a Roman consonantal I. but the I was evidently seen as inadequate, due to its indistinct shape and its existing job as a rowel. So an Englishwoman of A.D. 1000 would have written the word "Yule" as something like \$\frac{1}{2}\text{el}\text{, tar first symbol being the yogh, denoting "y". (In other uses, yogh might preprent a sound closer to our "g".)

But yogh was targeted for redundancy after the Norman Conquest brought a new, French-pesking ruling class to England. Norman French used Y, not yogh. Under pressure from Norman clergy who sought to bring English writing into line with Norman, the Y for "y' became standard gradually for English, as well. By the late 1400s, the useful yogh was history, at least in England. However, it survived farther field, in writing in Scodand.

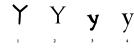
With the arrival of Scottish printing in 1508, pogle even got into print. It was not given its own metal letter block but was assigned to the Roman letter closest to its abage: the Z. Thus, in Scottish print until the 1700s, a letter Z might mean either "z" or "y" (or sometimes "g") in sound; the word "year," pronounced normally, might appear printed as zer.

The Scottish Z variant became extinct, yet a remnant can be found today. The Scottish surnames MacKenzie and Menzies, among others, carry a Z that at one time represented a Gaelic

3

þ

The yogh and thorn, representing the sounds 'y' and 'th," respectively, were two Anglo-Seans letters that supplemented the Roman alphabet for Old English writing, (There were four in all: See page 308.) Amid the emergence of modern English, both yogh and thorn would be replaced, sometimes by the print letter V.



(i) The neitrest Grede word upplied to heave the ancester of new U and, certains later, of new V. Thad by Vaglidy from yupilion hope, (i) the man interprised W Johns A. 10. 06. Galled from upplied, the Ruman letter was called upplied and took a vowel wand between U and I. (j) the tooks assail V of the 600 results aspect of the Roman capital, while relative for number of per arrivale to Nr. I belong of the world? I restriction the other Rowersa shopes (4) Lauversay in Robertville Oil Face, a modern servine of Englishman John Roberville design of Johns 1786.

sound of "g"—a fact not understood in England and eventually forgotten in Scotland.

Notso different from the fate of yegh was that of another Old English letter, thom, denoting the plentiful English sound "th." Thom, too, came under pressure in Norman England to get lost, and by the 1400s it was giving way to the letter combination TH in many spellings, Yet thom would hold on for centuries more the longest-lived of Old English letters—as a convenient abbreviation in words like "the", "them," "there," and "that," especially in informal writing.

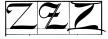
Handwritten thom had by the 1400s grown to resemble the Roman letter Y. With the advent of English printing (1476), thom remained popular enough to be represented in print. The job of impersonating thom on a typeset page was given to the Roman letter that thom most resembled: Y. Therefore, the word "the,"



A curling sail distinguishes the shape of thorm, as opposed to Y, on a curved gravestone in morth Consuall, from the mid-ryox, of adult twin who died young, the a convenient adbreastion and appear sure in word like 'the' (line 1, 4, 7, 9) and 'lin' (line 8), thorn remained in use for epitaphs and other sign-posting through the 1700s in England and for personal handlerine into the 1800s.

printed with a thorn, would look like ye, or Ye in a headline. The word "that" would look like yat. Such words would be pronounced exactly as we pronounce them—"the," "that"—but with slightly different symbolization.

The Y them remained in English print and signposting through the 1700s and in personal handwriting into the 1800s. Today it is recalled, although not usually understood, in such quaint archaisms as the signpost "Ye Olde English Pub."



Three medieval ink styles of the letter Z, as penned by American type designer Frederic W. Goudy.

## EXZOTIC Z

eroing in on the end of the alphabet, let's pause to salute one indispensable letter: U (yes, you). Your time and companionship, on this voyage of discovery, are much appreciated. For me, this book has been a chance to share a personal fascination and to promote respect for those miraculous litdle shapes that show language; along the way, I've learned much about things I never understood before. Here's hoping that readers, likewise, have gained something in enjoyment and knowledge. Now at journey's end, I chank U.

The last letter of our Roman alphabet is Z, a consonant that can seem racy and elusive or just plain disadvantaged. The potential indignity of being the alphabet's caboose is compounded by one real weakness: Z is, on average, the least-used letter in printed English, Of the 26 letters, Z finishes last in this race, too, behind Q and X. For every 1,000 appearances by E (our most-used letter), Q appears about so times. X 44, and Z a measly 22.

No wonder Z has been called superfluous, mere excess baggage. In Shakespeare's King Lear (A.D. 1605), the irascible Earl of Kent insults the fatuous courtier Oswald, calling him by the British name for Z: "Thou whoreson zed, thou unnecessary letter!"

Still, don't cry for Z, Venezuela. For not only has Z benefited from the romance of being rare and elusive, but also, in the past decade. Z has exploded in print: The Z's now shower down on us in company names like Z-Com (communications) and Capital Z (investments), signpostings like Kidz Korner, and movie titles like eXistenZ.

First, the old spelling issue. For centuries, letter S has been robbing Z of jobs. Phonetically Z and S are cousins. Both are sibilants, the category of hissing and hushing, and they take similar tongue positions. But where Z vibrates the tongue's blade section, S vibrates the tip, and Z engages the vocal cords, which S does not.

Soothing and intriguing, the "z" sound suggests sleep, bees, or high-flying prop planes. It is distinct from "s." Yet in countless English words like "rose," "raise," and "ties," sound "z" has been awarded to letter S. Of our words spelled with Z. a fair percentage seem to have been given the letter only because an S spelling would have duplicated an existing word: thus, "doze" instead of "dose" and "prize" instead of "prise" (but back to S for "surprise"). As English grammarian Richard Mulcaster observed in 1582, "Z is a consonant much heard amonest us, and seldom seen,"

Why the bar against Z? One reason: Amid the fluid spellings of the Middle Ages (500 to 1500), scribes preferred S for its ease and legibility: Z was harder to handwrite clearly, as still today. The problem could have been fixed amid the spread of printing (late 1400s), but in England a deeper prejudice remained: Z just looked too foreign. Being rarely used in Latin or Old English, Z was associated in English minds with French and ancient Greek. and it became reserved mainly for borrowed words: Amazon and zodiac (from Greek), azimuth and zenith (from Arabic).

Z never had such popularity problems as a youngster. Back in 1000 B.C., the seventh letter of the Phoenician alphabet was zayin, which took a "z" sound, as demonstrated in the opening sound of its name. The name probably meant "ax." The letter looked like our capital I, which might suggest a pole-ax if someone could just erase that bottom crossbar.

Copied into the Greek alphabet around 800 B.C., the letter was renamed zeta-evidently in confused reference to a different Phoenician sibilant letter, called tsade. (See pages 16-17 and 20.) The zeta-the name meant nothing in Greek aside from the letter-began its life as an I shape but morphed gradually to the familiar Z shape. It represented the common Greek sound "dz"

However, neither "dz" nor "z" was a sound used in the Latin language of the Romans of Italy. After the alphabet was copied from the Greeks to the Etruscans and from the Etruscans to the Romans (by 600 B.C.), zeta dropped out of Roman use. The Roman alphabet of 250 B.C. had 21 letters, ending in X, with no zeta.

Then, around A.D. 100, a change: To help transliterate the Greek loan words that were flooding into Roman scientific and cultural vocabulary at that time, the Romans selected two Greek letters and added them to the end of their own alphabet: unsilon and zeta, or Y and Z. The two newcomers were never written for Latin but only for foreign-borrowed words, mainly Greek. As Greek zeta had by now shifted to the sound "z," that was the new Roman letter's sound, too, The Romans called Z by its Greek name, zeta.

Here Z languished—the underused tail end of Roman letters—until the early Middle Ages, when the emergence of Romance languages invited the use of Z for the sounds "s" or "tz," common in Old French and Italian. Z spread modestly through medieval French-language spelling circles, both in France and in Norman England; in both countries, Z's sound sturred eventually our "tz." Z's rival for this sound was the letter S—a rivalry still seen in such alternative spellings as British "analyse" and American "analyze" By 1600, S was the clear winner and Z was rare in printed English.

For centuries after, Z reained an aura of foreignness or mysery: Zanzibar, Zorosatrianism, Nebuchadnezzar. If creative media minds chose a Z-word, it usually was for that effect. On 1920s and '30s movie screens and on 1950s TV, the hero Zororò name seemed almot as exotic as his Z-sha calling card. The Houston rock group ZZ Top (formed in 1970, still going strong) were in-movators, and the beloved "Z" consumer sports car line from Datsun (now Nissan), launched in 1970 and recently reintroduced, was meant to seem as racy as its letter. Meanwhile, direct COSIA-GARSA's 1960 political film, Z—mamed factually from a left-wing symbol of defiance in contemporary, authoritarian Greece—spoke of government conspiracy and the end of freedom. Z was a place you didn't cassally go.

But that was then. Today Z is visible everywhere, borne on a recent tide of advertising and marketing that exploits certain letters as visual hoods, often in oddball phonetic spellings. Favorites are X, Q, K, and Z—normally rare letters, with strong sounds. Z, once so alien or extreme seeming, now signifies "hip" or "techno fm" or "ultimate service" in countless brand names.

The names form two categories. Where Z provides a flamboyant misspelling, as in the movie title Antz (1998) or Fox TV's Girlz Channel and Boyz Channel, the product is generally aimed at



The letter Z, kabels with a word just ten faire, it the ignature of the fermat leve are Zerm, a intermediated in popular work, most, and a 1990 Will District Private, in trendend in a 1990 word by American writer foliation McColly, Zerm (Yu'', 18) and with it is mysterious, clocked, metals figure with operate against impaire and a corrego Spatial geometric the Spatial Colffernius criticeness of 1st sugles in around 1828. A deading mordenius, ever mojets pare a dead acturary [16], income date in a deading mordenius, ever mojets pare a dead acturary [16], income that Zerm is the time the man't dealing or metals formithing. Only a round folia beau that Zerm is the starting of a zermingly friends local gardenius. Zerm reached the size were in the 1320 Dougle Enishados ideas [16] The Mink of Zerm, is not the classic returness usa protegy stor 12 per 20 years before 2012. Care Block Infair.

teens or preteens. Kids recognize the Z spelling as a signal to them, inviting their trust. To this category also belong Racerz snack chips, the coyly named Dngon Ball Z animated TV series, and such abundant signposting as Whizz-Kidz (website) and "Kidz' Dentist."

Where Z stands alone, the appeal is meant as more adult. Z-Tel (telecommunications), Z-World (computer hardware), Z-Corp [printers], Z-Tech (electronics), Z-Team (video production), Z-man (audio), Z systems (ditto), Z Spot (tattoo parlor), Z-magazine, Rachel Z (jazz pianist), and so on. So much so on, in fact, that Z now seems in danger of becoming a clické.

Much of Z's momentum may derive from the 1991 hit film Boyz N the Hood, set in the Los Angeles ghetto of Watts. The ti-



(1) Phoenician xayin, Ne' Xac, "doubt 1000 R.C. One of fine Phoenician itshikut teterer, xayin cane resenth in the daphase and such the mand". "() (Correb vizar Mey 1000 R.C. It daylocated xayin) i huge and alphabetic plate, and such a similar mand. (c) Correb vizar had murphed to a single more finelline in a by about 400 R.C. (d) Roma Z, the 24d and data anxient Roman Start, when ALD I.D. The Roman had capited Greek vizar into their alphabet for firely in translation and the control of the Roman Start. Associated and had plat the new letter at the end of the letter run where it restainly for took letter.

tle popularized the kind of misspellings long used as a password of American Black hip-hop culture. Like backward baseball caps and baggy pants, the emblem was then copied into the North American teen mainstream. Yet the hip-hop tradition lives on in such rapper names as Ghetto Twiinz, Youngbloodz, and Jay-Z.

No aspect of Z is more intriguing than the puzzle of its name: "eed" in Britain, Canada, and other Commonwealth nations, "zee" in the United States. The American version follows the normal system for naming a comonant in English: Take the letret's sound and add a long vowel, typically E, as in our names for B, T, or V. But the British version is more in line with the letter's ancient and medieval names.

As mentioned, the Romans called it zeta (pronounced "zayta"). The name passed to Romance languages of the early Middle Ages, and in modern Italian it is still zeta, in Spanish zeta or zeda. The Old French name evolved to zedd, with a shortened

form, zé. These are the grandfathers of the two modern Englishlanguage names.

Most of our letter names come from medieval French, brought to England with the Norman Conquest of A.D. 1066. It was not a neat process: Medieval and Renaissance English had a surprising number of variant letter names, based on local dialect and social class in an age before mass communication. Z's official name in England was "zed," vet variants-zad, zard, izzard, izard, uzzard, and ezod, as well as zee-crop up in extant British writings into the 19th century.

The izzard, ezod types seem to represent a separate puzzle. Samuel Johnson, in his 1755 English dictionary, explains them as decayed forms of an earlier name for Z: "S hard" (pronounced "ess hard"). Other scholars theorize they come from the French words et zède ("and Z"), which is how a medieval Norman English schoolboy might have ended his alphabet recitation.

But as to zee versus zed. Apparently both names came to America with locally drawn groups who emigrated from England to build the earliest settlements in Virginia and Massachusetts, in the 1600s. Both names endured in the young United States. As late as 1882, a certain journalistic item noted that the name of Z "in New England is always zee; in the South it is zed." Meanwhile an influential New Englander had been advocating "zee." Lexicographer Noah Webster, from Connecticut, sought generally to disassociate American English from British. In his 1828 American Dictionary of the English Language, destined to set the standard for American usage, Webster says absolutely of the letter's name, "It is pronounced zee."



#### SAVING OUR FAREWELL?

To the 19th-century French povelist-poet-playwright Victor Hugo goes the privilege of the last word. The author of The Hunchback of Notre-Dame (1831) and Les Misérables (1862) was an ardent admirer of the 25 letters—no French W in those days—as being images of lanquage, civilization, and principles even more profound. In his memoir Travel Notebooks (1839), he interprets the alphabet mystically, musing on the significance of each letter. Beginning with comments on Y (duoted here already on pages 349-50), he proceeds through all the letters, not always in faithful order. With apologies to the omitted W. here is Victor Hugos

Human society, the world, and the whole of mankind is to be found in the alababet. Freemasonry, astronomy, philosophy, all the sciences find their true, albeit imperceptible, beginnings there; and so it must be. The alphabet is a wellsarine.

A is the roof, the public with its crossbar, the arch, or it is the proving of two friends who embrare and shake hands D is the built B is D upon D, the back on the back, the hump: C is the crescent, the moon: E is the foundations, the pillar, the console, and the architrave, the whole of architecture in a single letter; F is the sallows. the gibbet, furea: G is the French horn: H is the façade of a building with its two towers: I is a war machine launching its projectile: I is the allowshare and the born of elector K is the angle of collection actual to the angle of incidence, one of the keys to geometry; L is the leg and the foot: M is a mountain or a camp where the tents are nitrhed in pairs: N is a gate closed by a diagonal bar; O is the sun; P is the porter standing with a burden on his back: Q is the rump and the tail-R represents rest, the parter leaning on his stick: S is the snabe: T the hammer: U is the urn. V the wase thence the two are often confused to

have already discussed Y: X is crossed swords, combat - Who will be the victor? We do not know - so the mustics adopted X as the sign of desting, and algebraists chose it to represent the unknown: Z is lightninō, it is God.



The letter alcph in the Semitic word cl, "god." From the oldest known alphabet writing, at Wadi el-Hol in central Egypt, about 1800 B.C.



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