

Oggi Tongue twisters

NEW YORK

In search of the world's hardest language

ACERTAIN genre of books about English extols the language's supposed difficulty and idiosyncrasy. "Crazy English", by an American folk-linguist, Richard Lederer, asks "how is it that your nose can run and your feet can smell?". Bill Bryson's "Mother Tongue: English and How It Got That Way" says that "English is full of booby traps for the unwary foreigner...Imagine being a foreigner and having to learn that in English one tells a lie but the truth."

Such books are usually harmless, if slightly fact-challenged. You tell "a" lie but "the" truth in many languages, partly because many lies exist but truth is rather more definite. It may be natural to think that your own tongue is complex and mysterious. But English is pretty simple: verbs hardly conjugate; nouns pluralise easily (just add "s", mostly) and there are no genders to remember.

English-speakers appreciate this when they try to learn other languages. A Spanish verb has six present-tense forms, and six each in the preterite, imperfect, future, conditional, subjunctive and two different past subjunctives, for a total of 48 forms. German has three genders, seemingly so random that Mark Twain wondered why "a young lady has no sex, but a turnip has". (*Mädchen* is neuter, whereas *Steckrübe* is feminine.)

English spelling may be the most idiosyncratic, although French gives it a run for the money with 13 ways to spell the sound "o": o, ot, ots, os, ocs, au, aux, aud, auds, eau, eux, ho and ö. "Ghoti," as wordsmiths have noted, could be pronounced "fish": gh as in "cough", o as in "women" and ti as in "motion". But spelling is ancillary to a language's real complexity; English is a relatively simple language, absurdly spelled.

Perhaps the "hardest" language studied by many Anglophones is Latin. In it, all nouns are marked for case, an ending that tells what function the word has in a sentence (subject, direct object, possessive and so on). There are six cases, and five different patterns for declining verbs into them. This system, and its many exceptions, made for years of classroom torture for many children. But it also gives Latin a flexibility of word order. If the subject is marked as a subject with an ending, it need not come at the beginning of a sentence. This ability made many scholars of bygone days admire Latin's majesty—and admire themselves for mastering it. Knowing Latin (and Greek, which presents similar problems) was long the sign of an educated person.

Yet are Latin and Greek truly hard? These two genetic cousins of English, in the Indo-European language family, are child's play compared with some. Languages tend to get "harder" the farther one moves from English and its relatives. Assessing how languages are tricky for English-speakers gives a guide to how the world's languages differ overall.

Even before learning a word, the foreigner is struck by how differently languages can sound. The uvular r's of French and the fricative, glottal ch's of German (and Scots) are essential to one's imagination of these languages and their speakers. But sound systems get a lot more difficult than that. Vowels, for example, go far beyond a, e, i, o and u, and sometimes y. Those represent more than five or six sounds in English (consider the a's in father, fate and fat.) And vowels of European languages vary more widely; think of the umlauted ones of German, or the nasal ones of French, Portuguese and Polish.

Yet much more exotic vowels exist, for example that carry tones: pitch that rises, falls, dips, stays low or high, and so on. Mandarin, the biggest language in the Chinese family, has four tones, so that what sounds just like "ma" in English has four distinct sounds, and meanings. That is relatively simple compared with



other Chinese varieties. Cantonese has six tones, and Min Chinese dialects seven or eight. One tone can also affect neighbouring tones' pronunciation through a series of complex rules.

Consonants are more complex. Some (p, t, k, m and n are common) appear in most languages, but consonants can come in a blizzard of varieties known as egressive (air coming from the nose or mouth), ingressive (air coming back in the nose and mouth), ejective (air expelled from the mouth while the breath is blocked by the glottis), pharyngealised (the pharynx constricted), palatised (the tongue raised toward the palate) and more. And languages with hard-to-pronounce consonants cluster in families. Languages in East Asia tend to have tonal vowels, those of the north-eastern Caucasus are known for consonantal complexity: Ubykh has 78 consonant sounds. Austronesian languages, by contrast, may have the simplest sounds of any language family.

Perhaps the most exotic sounds are clicks—technically "non-pulmonic" consonants that do not use the airstream from the lungs for their articulation. The best-known click languages are in

souther...
for its c...
the click...
For s...
by just a...
of unus...
dent an...
and 17 a...
Traill, de...
sounds.
the same...
Beyo...
some Eu...
Greek. L...
which in...
is riddle...
the Finn...
guages fo...
er an act...
English h...
and "I a...
for going...
sians or...
Beyond...
Twain's j...
it often h...
"genre",
grammat...
which m...
animate,
memorab...
eastern A...
things". T...
to learn. E...
Agglu...
single w...
speak th...
or "un-",
obligatori...
ism" has
"-ari" -an...
common
such as "
ing "Wer...
a Czechos...
example:
had guest...
as carefre...
Yes we (b...
This prolif...
represents...
European...
quires Eng...
nore entir...
"we" has t...
(but not yo...
dual and pa...
has "we tw...
forms, one...
not hard to...
ward if you...
Berik, a...
code inform...
endings, oft...
happened;
verbs take o...
"gives three...

Linguists ask precisely how language works in the brain, and hard about how they learned what they say they know. Examples such as Tuyucas' evidentiality are the raw material. More may be found, as only a few hundred of the world's 6,000 languages have been extensively mapped, and new ways will appear for them to be difficult. Yet many are spoken by mere hundreds of people. Fewer than 1,000 people speak Tuyucá. Ubayku died in 1992. Half of today's language may be gone in a century. Linguists are racing to learn what they can before the forces of modernisation and globalisation quieten the strongest tongues.

endings on the verb. Evidence of language force speakers to think

German has three genders.
Mark Twain wonders why "a young lady has no sex, but a trumped up has."



andings even say where the action of the verb takes place relative to the speaker; *gwernintena* means "to place a large object in a low place nearby". Chindali, a Bantu language, has a similar feature. One cannot say simply that something happened; the verb ends *ge* shows whether it happened just now, earlier today. Yesterday before yesterday. The future tense works in the same way.

A herec debate exists in linguistics between those, such as Noam Chomsky, who think that all languages function roughly the same way in the brain and those who do not. The latter view was propounded by Benjamin Lee Whorf, an American linguist in the early 20th century, who argued that different languages condition or constrain the mind's habits of thought.

Whorfianism has been criticised for years, but it has been making a comeback. Leza Boroditsky of Stanford University, for example, points to the Kukuk Thayaoote, aborigines of northern Australia who have no words for "left" or "right", using instead absolute directions such as "north" and "south-east" (as in "You have a nail on your south-west leg"). Ms Boroditsky says that any Kukuk speaker of child knows which way is south-east at any given time whereas a roomful of Stanford professors, if asked to point south-east quickly, do little better than chance.

The standard Kukuk Thayaoote greet each other with an answer "where are you going?", with an answer being something like "north-east", in the middle distance. Not knowing which direction is which, Ms Boroditsky notes, "the Westerner could not get past "hello". Unlike the enthusiasts who claim that language features of language are hindering trivial surface features of language, the neo-Whorfian enthusiasts retreat that such neo-Whorfian Westerner could not get past "hello".

Berik, a language of New Guinea, also requires words to enter into a word if you were forced to make this distinction explicit.
Berik, a language of New Guinea, also requires words to enter into a word if you were forced to make this distinction explicit.
code information that no English speaker considers. Verbs have endings, often obligatory, that no English speaker considers. Verbs have happened; teller means "[he] did this in the evening". Where verbs take objects, an ending will tell their size: *klobana* means "gives three large objects to a man in the sunlight"; Some verbs happened; teller means "[he] did this in the evening". Where verbs take objects, an ending will tell their size: *klobana* means "gives three large objects to a man in the sunlight"; Some verbs

This proliferation of cases, genders and agglutination, however, represents a multiplication of phenomena that are known in European languages. A truly bogling language is one that requires English speakers to think about things they otherwise ignore entirely. Take "we". In Kwaoi, spoken in the Solomon Islands, "we" has two forms: "me and you" and "me and someone else (but not you)". And Kwaoi has not just singular and plural, but forms, one inclusive ("we including you") and one exclusive. It is dual and paucal too. While English gets by with just "we", Kwaoi has "we two", "we few" and "we many". Each of these has two dual and paucal too. While English gets by with just "we", Kwaoi has "we two", "we few" and "we many". Each of these has two

to learn. Bora, spoken in Pen, has more than 350 of them. Agerlinitang languages—that pack many bits of meaning into single words—are a source of fascination for those who do not speak them. Linguists call a single unit of meaning, whether "tee" or "un", a morpheme, and some languages bind them together obliquely. The English cuitosity "antidisestablishmentarianism" has seven morphemes ("ant", "dis", "anti-", "establish-", "ment", "ism"), whereas it is "art", "an", and "-ism". This is unusual in English, whereas it is common in languages such as Turkish. Turks coin fanciful phrases such as "Çekoslovakıyalılaştırmazdanımsızız?", mean- ing "Were you one of those people whom we could not make into a Czechoslovakian?" But like Ayutthai, a linguist, offers a real-life example: "Everindenmişgesine mahnitar". Assuming you have just had guests who made a mess, these two words mean "They were as careless as if they were in their own house".

the same lump (children had not developed it yet). Beyond some European languages are far harder than say, Latin or Greek. Latin's six cases cover incomparsion with Estonian's 14, which include inessive, elative, adessive, abessive, and the system is tiddled with irregularities and exceptions. Estonia's nouns in the Finno-Ugic language group do much the same. Slavic verbs and "I am going". And to say "go", requires different Slavic verbs for going by foot, car, plane, boat or other conveyance. For Russia beyond Europe things grow more complicated. Take gender. Twain's joke about German gender shows that in most languages it often takes little to do with physical sex. "Gender" is related to "genre", and means merely a group of nouns lumped together for grammatical purposes. Linguists talk instead of "noun classes", which may have to do with shape or size, or whether the noun is animate, but often rules are hard to see. George Lakoff, a linguist, memorably described a noun class of Dyibibal (spoken in north-eastern Australia) as including "women, fire and dangerous things". To the extent that genders are idiosyncratic, they are hard to see.

Southern Africa. Xhosaa, widely spoken in South Africa, is known for its clicks. The first sound of the language's name is similar to the click that English-speakers use to urge on a horse.

For sound complexity, one language stands out: Xoo, spoken by just a few thousand, mostly in Botswana, has a blistering array of unusual sounds. Its vowels include plim, pharyngealised, strident and breathy, and they carry four tones. It has five basic clicks and 77 accompanying ones. The leading expert on the Xoo, Tony Trail, developed a lump on his larynx from learning to make them sounds. Further research showed that adult Xoo-speakers had