

BASE FOREIGN WORDS

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As every computer programmer knows, numbers can be read in ways other than the decimal system we normally use. The decimal system is called "to the base ten" because it employs 10 digits: 0, 1, 2, . . . , 9. But systems to different bases are also possible. Utopianists have proposed a duodecimal system using 12 "digits" because 12 is divisible by more factors (and hence mathematically handier) than 10. Computers use arithmetic to the base 2, because their circuitry admits of only two states -- on or off. Base 2 arithmetic employs only the digits 0 and 1.

The same combination of digits will stand for different quantities in different systems. Thus 101 in base 10 means "one hundred and one", but 101 in base 2 means "five". To distinguish the systems and prevent confusion, mathematicians and computer programmers append where necessary a small subscript numeral indicating the base being used. Thus 101₁₀ means to read the 101 in base 10; 101₂ means to read 101 in base 2.

To illustrate the concept that the same group of digits can have different meanings in different bases, Jerry Garfunkel, my instructor in computer programming in the Great Neck Adult Education Program, analogized from language. He showed that the same cluster of letters can mean one thing in one language and something else in a different one, and that without some indication, such as context or subscript, the reader cannot tell what the word means. Take coin, for example. In English -- or to the base English, which we could write coin_e -- it means a small metallic disc used as a form of money. But in French, or coin_f, it means an angle at the end of a room or enclosure: a corner.

Jerry gave us a few words with both English and foreign bases, and I later added to this list. Perhaps readers of Word Ways can extend both the lists and the concept, by finding letter groups that mean something in three or more languages.

French

chair_f = flesh_e
bond_f = leap_e
court_f = short_e
sale_f = dirty_e
figure_f = face_e
laid_f = ugly_e

chose_f = thing_e
or_f = gold_e
crayon_f = pencil_e
dent_f = tooth_e
pour_f = for_e
mince_f = thin_e

coin_f = corner_e
chat_f = cat_e
rang_f = row_e
dire_f = say_e
hurler_f = yell_e
pain_f = bread_e

German

Gift_g = poison_e
 fast_g = almost_e
 leer_g = empty_e
 die_g = the_e
 rot_g = red_e
 Schmuck_g = jewelry_e

See_g = lake_e
 Kind_g = child_e
 ass_g = ate_e
 Tee_g = tea_e
 Wart_g = warder_e

dies_g = this_e
 Last_g = load_e
 fern_g = far_e
 Wand_g = wall_e
 war_g = was_e

Spanish

real_s = royal_e
 cola_s = tail_e
 cargo_s = duty_e

actual_s = present_e
 acre_s = sour_e
 colorado_s = red_e

bozo_s = moustache_e
 auto_s = play_e

A NEW CROSSWORD PUZZLE DICTIONARY

Word Ways contributor Tom Pulliam is co-author (with Clare Grundman) of an important new book for logologists, The New York Times Crossword Puzzle Dictionary (Quadrangle/The New York Times Book Company, 1974). Not only were crossword puzzles combed for synonyms that are repeatedly used, but a word-for-word scanning of various unabridged dictionaries (not specified) produced an extensive list of words not yet discovered by crossword constructors. The book contains about 500,000 words (not all different, of course, since the same word can appear as a synonym repeatedly), arranged by length up to a maximum of eight letters. The flavor of the dictionary is best captured by a few examples:

HARMONICA harp syrinx aeoline panpipe armonica
 zampogna

ORIOLE pirol bunyah lariat loriot cacique figbird pea-
 bird firebird goldbird hangbird hangnest troupial

ALCHEMY art magic alcumy chymia spagyric

IDIOTIC daft zany idiot fatuous foolish wantwit imbecile

Readers interested in a list of corrections should send a stamped, self-addressed envelope to Tom Pulliam, 17 Sherman Circle, Somerset, New Jersey 08873.