

**1.1 Three definitions of “bit”:**

- (1) A binary digit (pp. 1, 4, 7-8 (defn.), 18, 20, 22, 25, 30).
- (2) Past tense of “bite” (p. 1).
- (3) A small amount (pp. 6, 14).



1.3 DDPP Digital Design Principles and Practices  
JPEG Joint Photographic Experts Group  
MPEG Moving Picture Experts Group  
MP3 MPEG audio layer 3  
OK Although we use this word hundreds of times a week whether things are OK or not, we have probably rarely wondered about its history. That history is in fact a brief one, the word being first recorded in 1839, though it was no doubt in circulation before then. Much scholarship has been expended on the origins of OK, but Allen Walker Read has conclusively proved that OK is based on a sort of joke. Someone pronounced the phrase “all correct” as “oll (or orl) correct,” and the same person or someone else spelled it “oll korrekt,” which abbreviated gives us OK. This term gained wide currency by being used as a political slogan by the 1840 Democratic candidate Martin Van Buren, who was nicknamed Old Kinderhook because he was born in Kinderhook, New York. An editorial of the same year, referring to the receipt of a pin with the slogan O.K., had this comment: “frightful letters . . . significant of the birth-place of Martin Van Buren, old Kinderhook, as also the rallying word of the Democracy of the late election, ‘all correct’ .... Those who wear them should bear in mind that it will require their most strenuous exertions ... to make all things O.K.” [From the *American Heritage Electronic Dictionary (AHED)*, copyright 1992 by Houghton Mifflin Company]  
PERL According to some, it’s “Practical Extraction and Report Language.” But the relevant Perl FAQ entry, in perfaq1.pod, says “never write ‘PERL’, because perl isn’t really an acronym, apocryphal folklore and post-facto expansions notwithstanding.” (Thanks to Anno Siegel for enlightening me on this.)  
TCL Tool Command Language













**1.8<sup>01</sup>** The TI 74AUC1G00 is a 2-input NAND gate in a 5-pin package, which uses a 0.8-V to 2.7-V power supply. Its smallest package is the “YZP”-style die-size ball grid array, with dimensions 1.418 mm x 0.918 mm.



1.9 Using Adobe Illustrator, I was able to just reflect the original figure (except for Vcc and GND) on the horizontal axis and complement the input and output values appropriately.







