

Over 1,000 personal computer  
and word processing terms

ccess time Ada addressable cursor alphanumeric analog API  
ang barfibus BASIC beta testing binary file bit bogosity bo  
pi buffer bug byte CAI Cariboo interface chip COBOL co  
copy crafty data base DBMS decimal tab descenders digital D  
O-loop downtime dragon driver duplex DWIM electrosensitive  
mbed ENTER ergonomics expansion interface FAX feedback  
eld-upgradable firmware flag floppy font foot FORTRAN  
unction key ga gigahertz GIGO glob GOSUB hacker hardware  
ome horizontal scrolling initialize input install interface internal  
O ips joystick kluge laser printer legal Life line feed linker LIS  
ogging in LOGO loop luser macro magic mailbox manframe m  
emory menu message micro- microprocessor minicompute  
isfeature mnenmair moby mode monitor motherboard mous  
ITBF multipass mung nanosecond network nibble ni nor  
ASIS off-line open orphan sudden overlay overstriking -p  
arallel interface parity parse pass path PC peripheral phanto  
IP plug-compatible pointer PDM dependent popj print element  
rogram programmable function key spigot timer PROM  
roportional spacing protocol punched card punt push ques  
WERTY RAM random rave read read/write real-time rea  
about record refresh rate release version reel RETURN revers  
gid disk B.O. ROM routine RFG rude SALL save screenshot sec  
emiconductor sequential access shadow printing shared logic

Written for regular people—  
not computer experts—  
in language anyone can understand

**ARTHUR NAIMAN**



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# COMPUTER DICTIONARY FOR BEGINNERS

Arthur Naiman

Ballantine Books • New York

This book was written on a microcomputer-based word processing system put together by Tony Pietsch. Built on an S-100 bus, it has a Z80 CPU running at 4MHz, 64K of RAM, two single-density 8" drives, and a NEC Spinwriter printer. The operating system is CP/M and the word processing program is WRITE; I also use The Word+ spelling checker.

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# **COMPUTER DICTIONARY FOR BEGINNERS**

**For R.**  
*semper constans*

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I usually (but not always) followed the suggestions of these four computer experts. For that reason, and because there's so much I don't know about computers, I must place the responsibility for any errors which remain squarely on their shoulders.

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# **COMPUTER DICTIONARY FOR BEGINNERS**





# Introduction

**At last—a dictionary of computer terms that isn't written for engineers.** If you've been frustrated by computer jargon and haven't had any easy way to find out what it means, this book is for you.

*Computer Dictionary for Beginners* defines the 1100 or so terms you're most likely to come across when reading about computers, shopping for them, or trying to understand the manuals that come with them, and it explains those terms in clear, everyday, conversational English. There's even some humor (but never the kind that confuses you about the real meaning of a word).

Unlike other computer dictionaries, this book is designed for beginners. So I've kept technical terms out of the definitions as much as possible. The ones I do use are all defined elsewhere in the book; if you run across one that isn't familiar to you, it's easy to look it up.

Mostly I've chosen terms that refer to personal computers—the kind individuals can afford to buy and use themselves. I assume you're interested in *using* a computer, not in designing or building one, so engineering jargon like “virtual address” and “bit slice” is left out. But I have included some “hacker jargon”—the language computer experts use when talking to

each other—not because you'll ever need to know it, but because it's interesting and fun.

Pronunciations are provided for all the terms that need them (including some you could find in a regular dictionary, if you went to the trouble). For many entries, the origins of the term are also given, as are typical sentences (in italics) to show how the term is used.

I've included several charts and diagrams, because certain information makes the most sense presented that way. Cartoons liven things up and help illustrate difficult concepts. A special section—*How Computers Work—in 500 Words or Less*—gives you a solid basic understanding that would be hard to get by looking up individual words.

If you come across a term you feel should be in this book but isn't, drop me a line at Ballantine Books, 201 East 50th Street, New York, New York 10022 and I'll try to include it in subsequent editions. But I think you'll find that just about any term you're likely to run into is already here.

# How This Dictionary Works

Since I'm writing for nontechnical readers like yourself, I haven't tried to make my definitions more precise than you need them to be. Instead I've concentrated on making them clear and useful.

Some terms have applications wider than just computers, but I've only defined what they mean in the computer field. For example, the word "up" has dozens of meanings other than its computer meaning of "working."

Sometimes I've had to use technical terms in the definitions. If I hadn't, each definition would be ten pages long. But when I use a term that I think will be unfamiliar to most readers, I boldface it—so you know you can look it up (although, in fact, *all* the technical terms I use are defined elsewhere in the dictionary, whether they're boldfaced or not).

I also boldface synonyms for the word being defined, as well as additional words or phrases I'm defining at the same time (like **the field**, which means something different from the word **field** by itself).

Unless otherwise stated, abbreviations are pronounced letter by letter (for example, "EMI" is pronounced "ee-em-eye"). In the pronunciations, "g" is always hard (as in "go"); if I want to

indicate soft "g," I use "j." By the same token, "s" always equals "ss," never "zz."

I haven't included brand names of popular programs or pieces of hardware, for two reasons:

- 1) what gets included and what gets left out of such a list is always subjective, and unfair to many excellent products an author simply doesn't know about; and

- 2) mentioning a brand name implies a certain sort of approval, and there are several popular products I wouldn't want anyone to think I endorse.

The exceptions to this rule are brand names that you're likely to come across in an ad for some other product, without any explanation as to what they are (like CP/M, SoftCard, and the names of various programming languages and CPU chips).

Some computer terms are numbers; for example, "8086" is the name of a type of chip. I list numbers in alphabetical order, mixed in with the other terms. Thus "8086" is under "e," because "eighty" begins with "e." But if there are several number terms right in a row, I put them in ascending numerical order, rather than in strict alphabetical order.

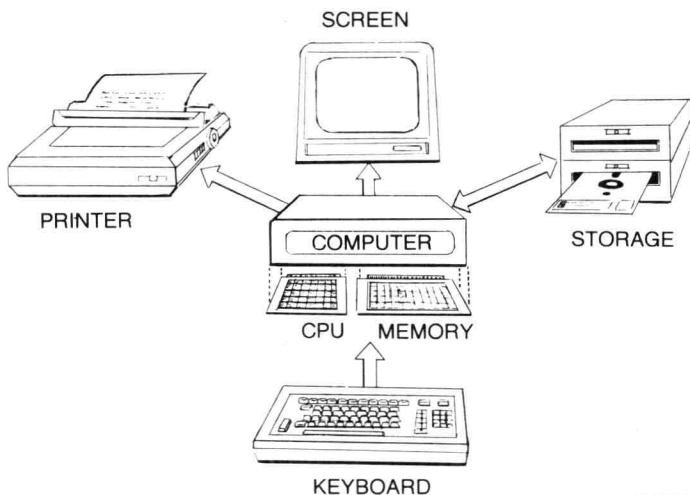
I alphabetize as if each entry were one long word; spaces and hyphens don't count. Symbols are listed at the end of the book. Terms that begin with a symbol but also include letters (like .TXT and /bin) are listed by their first letter.

# How Computers Work—in 500 Words or Less

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I won't waste any words telling you that 500 words isn't going to allow for a very detailed picture of how . . . oh my God! I've just wasted 28 . . . no, 30 . . . uh . . .

Look at the drawing below. All computers (and word processors) are made up of these basic pieces of **hardware** (some



GAR SMITH

include other components too, of course). When you type a character (any letter, number or symbol) on the keyboard, a coded electronic impulse travels over a cable to the computer, where it's stored in **memory** (this kind of memory is called **RAM**).

A computer's memory is basically a whole slew of little switches. Since a switch can only be on or off, computers reduce all information to a series of ons and offs, ones and zeros (in much the same way that Morse Code reduces all communications to a series of dots and dashes).

Today's computer technology allows thousands of electronic switches to be squeezed onto a piece of silicon the size of a baby's fingernail (called a **chip**). These chips are mounted and wired together on thin slabs of fiberglass called **boards**.

Not only are the switches used in computers very small, they're also very fast; some computers can throw millions of switches a second. (Primitive computers used mechanical switches, which were relatively big, clumsy and slow.)

Once a character is lodged in RAM, it's transmitted to a screen much like the one on your TV, which is also called a **monitor** or **display**. (Did you notice how I saved a word back there by using "it's" instead of "it is"?)

To actually *do* something to the characters you've placed in RAM—that is, to process your data—you need the **CPU** (the "central processing unit"). The CPU—made up of one or more chips—is capable of doing thousands of calculations a second; whatever a computer does, from word processing to Donkey Kong, it reduces to numerical calculations (to switch-throwing, really).

When you turn your computer off, RAM goes blank, so you need some way to permanently store your processed data (whether it's a letter, a game you've written, or a list of your accounts receivable). This is done on a **storage device** which puts your information on **media** like **floppy disks**, **hard disks** or cassette tapes; these store data in the form of magnetic impulses—basically the same way recording tapes store sound.

Another use for storage devices is to "load" **software** (instructions to the computer—also called **programs**) into the computer. These instructions can also be given to a computer by a special kind of hard-to-change memory called **ROM**, but programs on disks are usually more convenient (because you can change them much more quickly).

Since shipping your whole computer system to someone is a little inconvenient, **printers** were invented to produce **hard**

**copies** (on paper) of letters or other documents. It's also convenient to have hard copies for your own use, because it gets to be annoying to always have to look at things on the screen.

498 ... 499 ... I did it!!! ... whoops.



