

Computer science



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The internet began when and why 1969, US department of defense, was originally text only. 1990's media became available

To connect to the internet, you need: an access device (computer with a modem), means of connection (phone line, internet hook up, etc), and an internet service provider

Bandwidth Expressed how much data can be sent through a communications channel in a given amount of time

Baseband Slow type of signal that only allows for one signal to be transmitted at a time

Broadband high-speed connections

upload downloading information from local to remote computer

download downloading data from remote to local computer

narrowband low speed but inexpensive modem, ie. phone lines or dial up

telephone modems can be either internal or external

DSL line expensive, is always on, high speed, less than 4.5 miles from phone company to work

T1 line very expensive, generally used by large organizations.

cable modem TV cable system with internet connection, company usually supplies a cable modem, is always on, 100 mbps

Satellite Dish transmits data between satellite dish and satellite orbiting the earth, connection is always on,

Wi-Fi wireless fidelity, transmits data wirelessly for up to 54 mbps

ISP internet service provider, local regional or national organization that provides access to the internet for free

Wireless Internet Service Provider WISP, Sprint, AT&T, verison, etc. enables wireless-equipped laptops and tablets and smartphone users to access internet

Internet One huge network that connects a lot of smaller networks

client` Computer requesting data or services

server/Host computer is the central computer that gives out information upon request

Point of Presence (POP) a collection of modems and other equipment in a local area, local gateway access to ISP network

Internet exchange point a routing computer at the point on the internet where several connections come together, run by private companies, allows different ISP's to change internet traffic

Internet Backbone high-speed and high-capacity data transmission lines usually fiber optic, uses the newest technology (sprint, AT&T verison etc.)

Internet 2 cooperative University/business education and research project, takes old lines and adds new " toll lanes" to internet to speed things up

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Handshaking and Authentication connecting to your ISP's POP, handshaking: fastest speed of transmission established, authentication: User ID and password

Protocol the set of rules a computer follows to electronically transmit data packets fixed length blocks of data transmission; transmissions are broken up into packets and reassembled at destination

IP Address Internet Protocol address: unique address that connects devices to the internet

Dynamic IP VS Static IP Address changes each time with use, versus not changing at all

Web versus internet web is multimedia based and the internet is what supports the web

web sites unique address consists of: protocol (https://), domain name (barnsandnoble.com), directory name/file path (/sellback), file name and extension (home.htm)

Web portalyahoo, google, bing, ie a gateway website

individual search engines compile their own searchable data bases on the web

subject directories allow you to search information by selecting a list of categories or topics

Meta search engines allows you to search several site engines at once

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Specialized search engines help locate specialized subject matter such as info on movies or health or jobs (think WebMD)

wikia piece of software that can be downloaded and used to make a website for free that can be corrected or added to by anyone

tags Do-it-yourself labels that people can put on anything found on the Internet, from articles to photos to videos, that help them to find their favorite sites again and to link them

Digital Computers; communicating with 1 and 0s

Analog humans operate in an analog, uses wave variation. sound light and temperature are analog

Modem they convert analog data into digital data that computers can then use

Wide area network WAN; communications network that covers a large geographical area (long distance phone calls)

Metropolitan Area Network MAN; used to communicate in a city or suburb (cellphone users)

Local Area network LAN; connects computers or devices to one another in a close range of each other (ie one office space or building). The organization that has the LAN owns it. (home area network)

clients request data

Servers supply data

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Peer to peer all computers on the network are equal and communicate directly with one another without needing a server

Intranet functions as internet but for one company to use and access internally

Extranet similar to intranets but used by external sources (such as suppliers)

VPN virtual private network use a public network (usually the Internet) plus intranets and extranets to connect an organization's various sites) but on a private basis, via encryption and authentication

node any device attached to the network

star all nodes are connected through a central network switch

ring all nodes are connected into a continuous loop

Bus All nodes are connected to a single wire or cable

Tree A bus or network of star networks

Mesh message sent to the destination can take any shortest, easiest route to reach its destination

Twisted-pair wire used for dial up connections; two strands of insulated copper wire twisted around each other (slow)

coaxial cable insulated copper wire wrapped in a metal shield, used for cable TV and cable internet services

fiber-optic cable transmits pulses of light, not electricity, lower error rate, more expensive, more durable, very fast

Electromagnetic Spectrum radiation is the basis of all telecommunications signals, wired and wireless

Radio Frequency spectrum part of the electromagnetic spectrum that carries most communications signals

Narrow Band used for regular telephone communication

Satellite Heights Geo- earth orbit

Meo- medium earth orbit

Leo - low earth orbit

viruses program that hides in a file program or disk that cause unexpected effects

worms program that repeatedly copies itself onto the computer

trojan horses bad programs that disguise themselves to be useful to infiltrate computer information

rootkit allows access to personal information, such as the study of keystrokes

Zombies and Bots gives access to remotely control computer

point and shoot camera automatically adjusts settings for you

single lens camera uses a reflecting mirror to reflect incoming light into crisper photos

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