


Internet

- Wolframalpha.com
 - DARPA
 - ARPANET
 - UCLA
 - Stanford Research Institute
 - UC Santa Barbara
 - University of Utah
- Vinton Cerf & Robert Kahn
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- Internet
 - www Tim Berners-Lee first browser + web architecture
National Center for Supercomputing Applications – Univ Illinois – Mosaic browser
Mosaic → Netscape
 - ftp – file transfer protocol – program used to transfer files via the internet
 - telnet
 - gopher
 - bittorrent
 - http:// hypertext transfer protocol
 - https:// secure socket layer
 - URL's
 - <http://www.ecs.csun.edu/faculty/sqs>
 - <http://www.fivethirtyeight.com/2008/11/franken-pulls-ahead-georgia-is-screwy.html>
 - <http://java.com/en/download/manual.jsp>
 - IP Address – Internet Protocol Address – 123.45.245.91
 - Client-Server Systems
 - Search engine components
 - Crawler – software robot that receives information about unvisited sites from the index, searches those sites retrieving key words and other significant information concerning the site such as URL's to other sites, and returns that information to the index manager.
 - Query Processor – provides
 - a user front-end to receive a query request, i.e., key words
 - locate the requested information in the database
 - report back to the user which web pages contain those key words; the information reported is limited to that information that one of the may crawlers have located.
 - ✓ Index – consists of a
 - Database of searched sites which contains URL's, key words, and other significant information concerning each individual site and
 - List of URL's of identified but unvisited sites
 - ✓ Index manager which receives information from a crawler and classifies it into the proper form for inclusion into the database
 - E-mail
 - Web-based – gmail.com
 - Client-based – MS Outlook
 - Wikis
 - Weblog
 - Blogs
 - Videologs – vlogs
 - Spam blogs – splogs
 - Blog directories
 - ✓ www.blogcatalog.com
 - ✓ www.technorati.com
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- Podcasts – pre-recorded material
 - RSS – really simple syndication
 - ✓ XML-based format facilitates access to new content
 - Aggregators – software which locates and retrieves latest information
- Webcasts – live events
- Web Entertainment – multimedia
 - Streaming audio
 - Streaming video
- Plug-in software
 - Adobe reader – pdf files
 - Flash player – play movies via web browsers
 - Shockwave player – interactive games, multimedia, streaming audio/video via web browsers
- E-Commerce
 - Secure socket layer – https://
 - Reputable sites
 - Public computers &/or “free” internet access
 - Credit card vs debit card
 - Paypal
- Browsers
 - Firefox
 - Safari
 - Google Chrome
- URL –uniform resource locator
 - <http://www.nytimes.com/pages/cartoons>
 - Protocols – agreement on proper actions
 - ✓ http – hypertext transfer protocol – web server
 - ✓ ftp – (text) file transfer protocol – ftp file server
 - domain name – www.berkeley.edu
 - top-level domain – edu, com, gov, mil, net, ...
- Hyperlinks
- Bookmarking
 - Firefox -- “live bookmarking” – delivers content to website w/o user action
 - Social bookmarking – tagging – e.g., “science fiction”
- Search Methods page 117-119
- Evaluating Web Sites page 120-123
- Plagiarism page 121
- Semantic Web page 122
- Broadband
 - DSL
 - Cable
 - Fiber-Optic
- National Broadband Plan 2020
 - ■ France 2000

Technology in Focus 2 Ethics