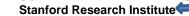
Internet

- Wolframalpha.com
- DARPA
 - ARPANET
 - UCLA





University of Utah

Internet

www Tim Berners-Lee first browser + web architecture

National Center for Supercomputing Applications – Univ Illinois – Mosaic browser Mosaic → Netscape

Vinton Cerf & Robert Kahn

- o ftp file transfer protocol program used to transfer files via the internet
- o telnet
- o gopher
- bittorrent

http:// hypertext transfer protocol

https:// secure socket layer

URL's http://www.ecs.csun.edu/faculty/sgs

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
 - o RSS really simple syndication
 - ✓ XML-based format facilitates access to new content
 - Aggeregators 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, streamiong audio/video via web browsers
- E-Commerce
 - Secure socket layer https://
 - o Reputable sites
 - Public computers &/or "free" internet access
 - Credit card vs debit card
 - Paypal
- Browsers
 - Firefox
 - Safari
 - Google Chrome
- URL –uniform resource locator
 - o http://www.nytimes.com/pages/cartoons
 - Protocols agreement on proper actions
 - √ http <u>hypertext transfer</u> protocol web server
 - √ ftp (text) file transfer protocol ftp file server
 - o domain name www.berkeley.edu
 - o 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 pagfe120-123
- Plagiarism page 121
- Semantic Web page 122
- Broadband
 - o DSL
 - o Cable
 - Fiber-Optic
- National Broadband Plan 2020
 - ■ France 2000

Technology in Focus 2 Ethics