Internet: Surfing the WEB
Lesson Notes
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Vocabulary

internet
Any set of networks interconnected with routers. The Internet is the biggest example of an internet.

Internet
The Internet is the largest internet in the world. It is a three level hierarchy composed of backbone networks (e.g. ARPAnet, NSFNet, MILNET), mid-level networks, and stub networks. These include commercial (.com or .co), university (.ac or .edu) and other research networks (.org, .net) and military (.mil) networks and span many different physical networks around the world with various protocols including the Internet Protocol.

Pamela's definition: A party line of computers, world wide.

World Wide Web
An Internet client-server hypertext distributed information retrieval system which originated from the CERN High-Energy Physics laboratories in Geneva, Switzerland. On the WWW everything (documents, menus, indices) is represented to the user as a hypertext object in HTML format. Hypertext links refer to other documents by their URLs.

hypertext
A term coined by Ted Nelson around 1965 for a collection of documents (or "nodes") containing cross-references or "links" which, with the aid of an interactive browser program, allow the reader to move easily from one document to another.

Hypertext Markup Language (HTML)
A Hypertext document format used to create pages for the World-Wide Web.

Internet Service Provider
A company that provides other companies or individuals with access to, or presence on, the Internet. Some popular Internet Service Providers are telephone companies, and cable companies. Providers can be dial-up, DSL, or cable. Dial-up is the slowest of the three and ties up the phone line when in use.
Wi-Fi (Wireless)

Wi-Fi is actually a non-profit industry association called the Wi-Fi Alliance. It promotes wireless Local Area Networks (WLANs). Wi-Fi is often used as a term referring to wireless networks, the same as Klenex is used to refer to tissues.

In order to access a wireless network, two things have to be in place. There has to be a wireless point, and the computer being used has to have wireless capability (hardware).

Locations with Free Wi-Fi Internet Locations
www.wififreespot.com

Browsers

A browser is a program loaded on the user’s system that allows the viewing of Internet web pages. Popular browsers are Microsoft Internet Explorer (IE), Microsoft Edge, Firefox, and Chrome.

Cookies

A packet of information sent by a web site to a user’s browser, then sent back by the browser each time it accesses the web site. The cookies are stores on the user’s system. Cookies can contain any arbitrary information the server chooses. Typically, this is used to authenticate or identify a registered user of a web site without requiring them to sign in again every time they access that site. Other uses are, e.g. maintaining a “shopping basket” of goods you have selected to purchase during a session at a site, site personalization (presenting different pages to different users), or tracking a particular user’s access to a site.

There are several internet advertising companies that use cookies to track a user’s interest in order to display ads they believe would interest the user. To stop these advertisers from tracing the user’s web surfing, the user can “Opt Out” of the tracking. The user can go to the individual web sites of the advertisers or go to NAI’s (Network Advertising Initiative) web site (www.networkadvertising.org) to opt out of several at one time.

Blog

WEB Addresses (URLs)

A web address has three parts.

**Transfer Protocol**

The beginning of a web address (URL) contains the Transfer Protocol type (the language it will use to transfer the information between computers).

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>http</td>
<td>HyperText Transfer Protocol - protocol for linking text files to one another to share information on the Internet</td>
</tr>
<tr>
<td>https</td>
<td>Hypertext Transfer Protocol Secure HUB</td>
</tr>
<tr>
<td>ftp</td>
<td>File Transfer Protocol - protocol for transferring files between network nodes</td>
</tr>
<tr>
<td>tftp</td>
<td>Trivial File Transfer Protocol - A simplified version of FTP that transfers files but does not provide password protection, provide directory capability, or allow transmission</td>
</tr>
</tbody>
</table>

*Note: Only URLs starting with https:// are secure.*

**Name**

**Internet Address Extensions**

The Internet Corporation for Assigned Names and Numbers (ICANN) is the non-profit corporation that was formed to assume responsibility for the IP address space allocation, protocol parameter assignment, domain name system management, and root server system management functions previously performed under U.S. Government contract by IANA and other entities. ([www.icann.org](http://www.icann.org))

<table>
<thead>
<tr>
<th>Domain</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.com</td>
<td>Commercial</td>
</tr>
<tr>
<td>.edu</td>
<td>Educational</td>
</tr>
<tr>
<td>.gov</td>
<td>Government</td>
</tr>
<tr>
<td>.org</td>
<td>Organization</td>
</tr>
<tr>
<td>.net</td>
<td>Network</td>
</tr>
<tr>
<td>.mil</td>
<td>Military</td>
</tr>
<tr>
<td>.biz</td>
<td>Businesses</td>
</tr>
<tr>
<td>.info</td>
<td>Unrestricted use</td>
</tr>
<tr>
<td>.name</td>
<td>For registration by individuals</td>
</tr>
<tr>
<td>.museum</td>
<td>Museums</td>
</tr>
<tr>
<td>.coop</td>
<td>Cooperatives</td>
</tr>
<tr>
<td>.aero</td>
<td>Air-transport industry</td>
</tr>
<tr>
<td>.pro</td>
<td>Accountants, lawyers, and physicians</td>
</tr>
</tbody>
</table>
E-Mail

Electronic Mail
Mail is generated on the user's systems. The user then ties into their service provider where their electronic mailbox resides in an electronic post office. The mail is transferred to the mailbox at the post office (service provider). Any mail at the post office will be transferred to the user's system.

Note: People do not have to be on the same internet service to exchange mail, just as a person in one city is not using the same U.S. Post Office as a person in another city. The Post Office's send mail to each other and then distribute it among its patrons. Internet e-mail is handled in a similar fashion.

The parts of an e-mail address are your post office box and the post office (referred to as the Domain).

instructorvbpr@hotmail.com

instructorvbpr is the post office box and it is @ (at) hotmail.com which is the post office or Domain.

Note: there will never be a space in an email address.
PHISHING is a way for crooks to con you into giving them your personal information.

Step One: They send you an email with a lure to their web site.

Note that in this email, when the pointing finger link hand is over the hyperlink, the address display does not match.

http://24.208.151.197/

If you click on the link it directs you to the crooks web site.

Step Two: the crook has made a copy of a legitimate web site to get you to key in your personal information.

Note that the address bar does not contain the correct address (floating underneath doesn’t count). And the URL does not start with https://.

A secure web site will have an address that starts with https:// (note the ‘s’).
MALWARE (Malicious Software)

Viruses/Worms are programs that are passed from one computer to another for the sole purpose of disrupting the workflow. Some will do real damage to your system while others are created to just annoy you.

There are programs that can be purchased that will check and protect against most viruses, but there are new viruses being developed every day so the virus checker must be kept updated. Read the information that comes with your virus checker for instructions on how to update the virus signatures.

As of now, you cannot get a virus from opening an e-mail. YOU CAN GET A VIRUS by opening an attachment to an e-mail. The rule should be that you should never open an attachment unless you know what it is. The person sending the e-mail should inform you as to what is contained in the attachment.

There are hoaxes being sent via e-mail warning the recipient that there is a new virus that the virus checker companies do not even know about. If the e-mail states that the virus checker companies do not know about the virus, chances are it is a hoax. The virus checker companies will usually know about a new virus within a few hours of it being turned loose on the internet. Always check a virus message or chain letter to be sure it is true before passing it on.

Three good sites for checking the validity of virus e-mail warnings and chain letters:

- **Symantec Virus Hoaxes**
  - [www.symantec.com/avcenter/hoax.html](http://www.symantec.com/avcenter/hoax.html)

- **Urban Legends**
  - [www.scambusters.org/legends.html](http://www.scambusters.org/legends.html)

- **Snopes**
  - [www.snopes.com](http://www.snopes.com)

**Passwords**

Passwords should be strong to make them hard to break. Use upper and lower case letters, numbers, and when possible, symbols. Check your passwords at the following sight.

- **Passfault**
  - [www.passfault.com](http://www.passfault.com)
Subject: Warning, Danger!

We've all seen lots of those email warnings and virus alerts, but this one tops them all. So I've decided to pass along this little story I just concocted - err, I mean just received from a credible source, for your edification. This is not a chain letter! This is not a joke! This is absolutely true! (Yeah, right...)

--- WARNING, DANGER! ---

I know this guy whose neighbor, a young man, was home recovering from the trauma of his friend's aunt who took her kids to a Burger King restaurant in a major city and they all got bit by snakes in the ball pit. Anyway, he decided to forget his troubles by having a few stiff drinks at Mulligans, and the next thing he awoke in a hotel bathtub full of ice and he was sore all over. When he got out of the tub he saw a note on the mirror saying that HIS KIDNEYS HAD BEEN STOLEN by Bill Gates, and he could only get them back by dialing 9-0-# and forwarding 5000 emails to a dying girl at Disney World.

THIS IS ABSOLUTELY TRUE!!! My uncle's friend heard this story from his neighbor who got it from a guy named Craig Shergold who used to work for the American Cancer Society in a major city.

Well the poor guy immediately tried to call 911 from a pay phone to report his missing kidneys, but upon reaching into the coin-return slot he got jabbed with an HIV-infected needle around which was wrapped a note that said, "JOIN THE CREW". He was so distraught at this point that he went into the nearest theater and bought a ticket. It was then that he felt a sharp pain in his left shoulder blade. The people behind him got up laughing and tossed a wadded-up paper ball at him as they ran out. When he uncrumpled the paper, it said "WIN A HOLIDAY" and was signed by Jessica Mydek.

THIS IS NOT A JOKE!!! I have a friend who works next door to the police department of a major city and he heard it from his elderly aunt. The poor man, having no kidkeys and infected with a dread disease, stumbled into a nearby Neiman Marcus cafe and ordered a plate of cookies. He asked for the recipe and was told that it would cost "two
fifty”. When he received his bill, there was a charge for 250 dollars.

Furious, he fired up his laptop and sent an email to his lawyer. It was then that he noticed his Palm Pilot was infected by the Budweiser screen saver virus. A "flashing IM" appeared on his AOL screen, and without thinking, he clicked on it. Instantly, hackers stole his password and began downloading salacious photos of Nina Totenberg onto his hard drive.

So anyway the poor guy tried to drive himself to the hospital, but on the way he noticed another car driving along without its lights on. To be helpful, he flashed his lights at him and was promptly shot as part of a gang initiation in a major city. His arm was bleeding badly, but he was able to make it into the mall parking lot. Just at that moment he saw two guys with black hoods stuffing his wife into a van. Apparently they had told the woman there was a dying baby in the parking lot and asked for her help.

THIS IS NOT A CHAIN LETTER!!! Please forward this urgent message to every one you can, and spread the news that the Take-A-Bath Foundation will donate a pair of Nike sneakers to everyone at Disney World, but only if you send it to 1000 people. Don't be a thoughtless jerk – it only takes a minute of your time to spread this chain letter, and it could be true!

...Have a great new year, everyone. Feel free to pass this story (including this paragraph) along to a few friends, and be sure to tell them to sign up for the free TOURBUS newsletter. You can find the REAL story about all of these hoaxes in the TOURBUS archives at www.tourbus.com/.

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WEB Sites

Museums

British Muséum
www.thebritishmuseum.ac.uk

Library of Congress
www.loc.gov

Louvre
www.louvre.fr

Smithsonian
www.si.edu

Live Cams/Audio Feeds

Streaming Video News
www.ap.org
www.cbsnews.com

Cams
www.earthcam.com

Radio
www.whro.org
www.worldtalkradio.com
Local Interest

Hampton Roads
www.hamptonroads.com

Emergency E-Mails
www.emergencyemail.org

Events
www.beacheventsfun.com

Movie and TV Listings
www.yahoo.com/movies
www.cinema-cafe.com
www.zap2it.com

Politics (Virginia)
www.sbe.virginia.gov Board of Elections
www.politics1.com/va.htm Directory of Virginia Candidates
leg1.state.va.us Virginia Legislative Information
www.factcheck.org Fact Checking of Ads and Speaches

Virginia Beach City Government
www.vbgov.com
www.vbgov.com/libraries Public Library (search, reserve, renew)
www.adultlearning.vbschools.com

Virginia Lottery - Official Site
www.valottery.com

Recycling
https://groups.freecycle.org/group/VirginiaBeachVA/posts/all
Commercial Sites for Children

_Crayola_

www.crayola.com

_HotWheels_

www.hotwheels.com

_Barbie_

www.barbie.com

_Beatrix Potter_

www.peterrabbit.com

_Nickleodean_

www.nick.com

Commercial Sites for Teenagers and Adults

_Pet Care/Breeds_

www.purina.com

_Car information_

www.myfordmag.com

Games

_AARP Games_

games.aarp.org

_Pop Cap Games_

www.popcap.com

_Silly Things to Do on the Internet_

www.procreo.jp/laboflower_garden.swf
daryld.com/singing-horses
Sports

Nascar  
www.nascar.com

Gravedigger  
www.gravedigger.com

NFL  
www.nfl.com

Free Software (Shareware, Samples, and Fonts)

CNET (reviews, tech notes, and shareware downloads)  
www.cnet.com

Alice Programming Software  
www.alice.org

Scratch Programming Software  
www.scratch.mit.edu

Yo Yo Games Maker Software  
www.yoyogames.com

Fonts  
www.acidfonts.com  
www.fontspace.com  
www.urbanfonts.com
Recipes

All Recipes
www.allrecipes.com

Top Secret Recipes
www.topsecretrecipes.com

Food TV
www.foodnetwork.com

Splendid Table
www.splendidtable.org

Crafts

Aleen's Crafts
www.aleenes.com

American Woodworker Magazine
www.americanwoodworker.com

Enchanted Learning crafts
www.enchantedlearning.com/crafts

Squigly's Playhouse
www.squiglysplayhouse.com

Holiday Sites

Christmas
www.northpole.com

Halloween
www.halloween-website.com

Easter
www.trackeasterbunny.com
E-Mail Cards

Jib Jab
www.jibjab.com

Jacquie Lawson (Not free to send)
www.jacquielawson.com

Cleaning

Fly Lady (organization help)
www.flylady.com

Household Cleaning Tips
www.handymanusa.com/articles/cleaningtips.html

Shopping

JourneyEd (inexpensive software for students)
www.journeyed.com
www.journeyed.com/select (use for specific school deals)

Books (new and used)
www.amazon.com
www.barnesandnoble.com

Auctions
www.ebay.com

Travel (reservations: airlines, hotels, cars)
www.orbitz.com
www.priceline.com
www.southwest.com
www.travelocity.com

Printable Coupons
www.coupons.com
www.smartsource.com
Educational Sights

*Sesame Street*
www.sesamestreet.org

*Microsoft (tutorials)*
https://support.office.com

Dictionaries/Encyclopedias

*Dictionary of Computing*
www.computer-dictionary-online.org
www.netlingo.com

*One Look Dictionary*
www.onelook.com

*Find law (links to law libraries and codes)*
findlaw.com

*Wikipedia (encyclopedia)*
en.wikipedia.org

*This Day in History*
www.historychannel.com/today

Maps
www.bing.com/maps
www.mapquest.com
www.google.com/maps
Science

Identification

Birds [www.whatbird.com]

Plants [http://dendro.cnre.vt.edu/dendrology/idit.htm]

Discovery Channel
[www.discovery.com]

National Geographic
[www.nationalgeographic.com]

Professor Bubbles' Bubblesphere
[www.bubbles.org]

Weather
[www.weather.com]

Health

Healthfinder
[healthfinder.gov]

MedHelp International
[www.medhelp.org]

The New England Journal of Medicine
[www.nejm.org/content/index.asp]

National Institutes of Health
[www.nih.gov]

Kids Health
[www.kidshealth.org]

Web MD
[www.webmd.com]

Drugs.com
[www.drugs.com]
Government/Military

White House
www.whitehouse.gov

Internal Revenue Service
www.irs.gov

Social Security Administration
www.ssa.gov

Time
www.time.gov

USDA (track food intake & exercise)
www.usda.gov

U.S. Navy
www.navy.mil

Opt Outs (opt out of having your information sold)

Consumer Credit Reporting Companies
https://www.optoutprescreen.com

National Do Not Call Registry
https://www.donotcall.gov
Search Engines - General

*Alta Vista*
www.altavista.com

*Yahoo*
www.yahoo.com

*Ask*
www.ask.com

*Google*
www.google.com

*Bing*
www.bing.com

Search Engines – Specific Searches and Databases

*Lost Pets*
www.fidofinder.com

*Class Mates*
www.classmates.com

*Phone Numbers (includes reverse lookup)*
www.anywho.com
www.reverseaddress.com

*Guidestar (the national database of U.S. charitable organizations)*
www.guidestar.org

*Music (lyrics)*
www.lyrics.com

*Auto Manufacturers*
www.autopedia.com/html/MfgSites.html

*Quotes*
https://www.brainyquote.com/