

Getting Started with the Internet

What is a Web Browser

Internet Explorer is software that lets you access the World Wide Web (WWW). It gets web pages (or documents) supplied by web servers. It -

- *recognizes - HTTP Protocol*
- *displays - text, graphics, & links to web pages*
- *examples - Firefox, Internet Explorer, Safari, Chrome*
- *Mosaic - the first browser, 1993, Marc Andreessen*

[Open Internet Explorer](#)

Internet and WWW

Introducing the Internet

What's the World Wide Web?

World Wide Web

- Only a part of the Internet
- Started 1991 by Tim Berners-Lee
- Also referred to as **WWW** or the **Web**
- It's a **multimedia** service
 - Supports color, graphics, animation, sound
- The most popular and accessible part of the Internet

Internet and WWW

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What is the Internet?

Information Highway

*A **Network** is a collection of computers and devices connected via phone lines and other means, linked together to exchange data and share resources.*

*The **Internet** is a collection of local, regional, and national networks.*

*Access is obtained through organizations, including businesses, called **Internet Service Providers (ISPs)**.*

For more....<http://en.wikipedia.org/wiki/Internet>

Internet and WWW

Introducing the Internet

History of the Internet

Internet

- 1969 Arpanet (Defense Dept.)
- 1970's Growth of NSF Supercomputer Centers
- 1980's Commercial Info. Services
Internet opens up to University Access
- 1991 **World Wide Web**, Tim Berners-Lee, CERN
- 1994 Netscape Browser, Marc Andreesson,
Univ. of Illinois Supercomputer Center

http://www.computerhistory.org/exhibits/internet_history/

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Introducing the Internet

Internet Service Providers (ISP)

Internet

- Internet Service Providers provide access to the Internet via telephone or cable
 - America Online (also called an *online service*)
 - Aristotle
 - Comcast
 - Internet Partners of America (IPA)
 - Microsoft Network (MSN)
 - AT&T ...and many, many others

Go to <http://www.theispdirectory.com>

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Internet Service Providers (ISP)

ISP Gives you...

- **Regular Dialup Access (slower-56k or 56,000 bps)**
 - CDs to Self-Install
 - Phone Number to dial up
 - No modem (you have it or buy it) ...or....
- **DSL or Cable Access (about 30 times faster)**
 - Typically **1.544 Mbps** downstream & **128 Kbps** upstream
 - AT&T speeds up to 6Mbps down, 768Kbps up
 - Comcast speeds up to 12 Mbps downstream
 - DSL or Cable Modem - sometimes they install
- **Other add-on services** (email, hosting)

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Internet Protocol Address

Each computer on the internet has a unique Internet Address

IP number(IPv4) - Internet Protocol Number, made up of 4 groups of 3-digit numbers, such as, **144.167.10.48**

These numbers are converted into **names**.

IP number(IPv6) - 2001:db8:0:1234:0:567:1:1

Domain Name - Major name associated with an IP No. or group of numbers, such as UALR.EDU - Used with Email or WWW address

Athena.UALR.Edu - Example of a UALR sub domain

What's your IP number? Go to Whatsmyip.com

Internet and WWW

Top Level Domain name

- com (commercial)
- edu (educational)
- gov (nonmilitary government)
- mil (military)
- org (other organizations)
- net (network resources)
- us (geographical domain name:
 - fr - France; mx - Mexico; US - United States)
- And more ... Many added recently
 - www.icann.org/registrars/accredited-list.html

Internet and WWW

The URL (*uniform resource locator*)

World Wide Web

- unique address assigned to each web page
- you type it to access a web page
- example, <http://www.ualr.edu/>
- can be shortened to www.ualr.edu
- Secure site, <https://www.asite.com>

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Using Web browsers

Web terms

World Wide Web

- Web server or Web Client
- Web browser or client
- Web site, web pages, home pages
- IP Number
- URL (uniform resource locator)
- Domain Name
- Hyper Links (to sites)
- HTML (Hypertext Markup Language)
- HTTP (Hypertext Transport Protocol)
- Web Host (or Web Hosting)

Internet and WWW

Navigating the Internet

Book Topics

1. Start IE and Identify Screen Elements
 - Open the Browser and moving around
 - Toolbars
2. Navigate the Internet
 - Using the Address Bar,
 - Opening pages & tabs
 - Accessing pages with hyperlinks
 - Using the History

Internet and WWW

Exercises - URLs

URLS, Links, Guess

- Go to <http://www.ualr.edu/gblane> and make it your home page
- Go to www.usa.gov
- Open a "new window", go to ed.gov
- Add them to "Favorites"
- Open a "new tab" and go to PSU.edu
- "Guess a URL" for a familiar company (Sears, IBM, Ben & Jerry, U Texas)
- View the html coding of a web page

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