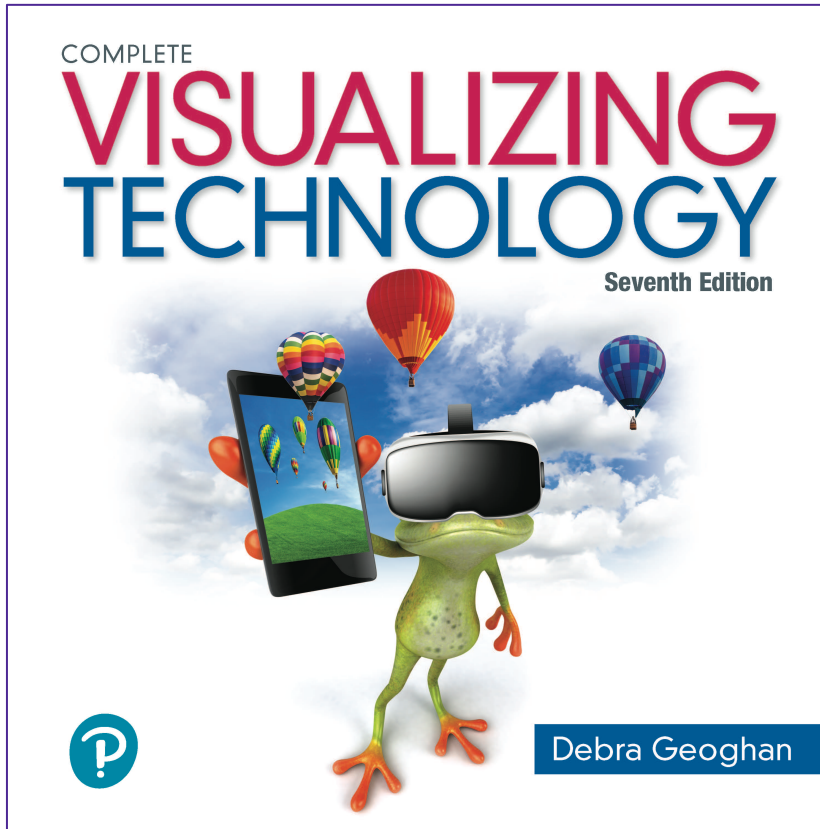


Introductory Visualizing Technology

Seventh Edition



Chapter 7

The Internet

Learning Objectives

7.1 Recognize the Importance of the Internet

7.2 Compare Types of Internet Connections

7.3 Compare Popular Web Browsers

7.4 Demonstrate How to Navigate the Web

7.5 Discuss How to Evaluate the Credibility of Information Found on the Web

Learning Objective 7.1

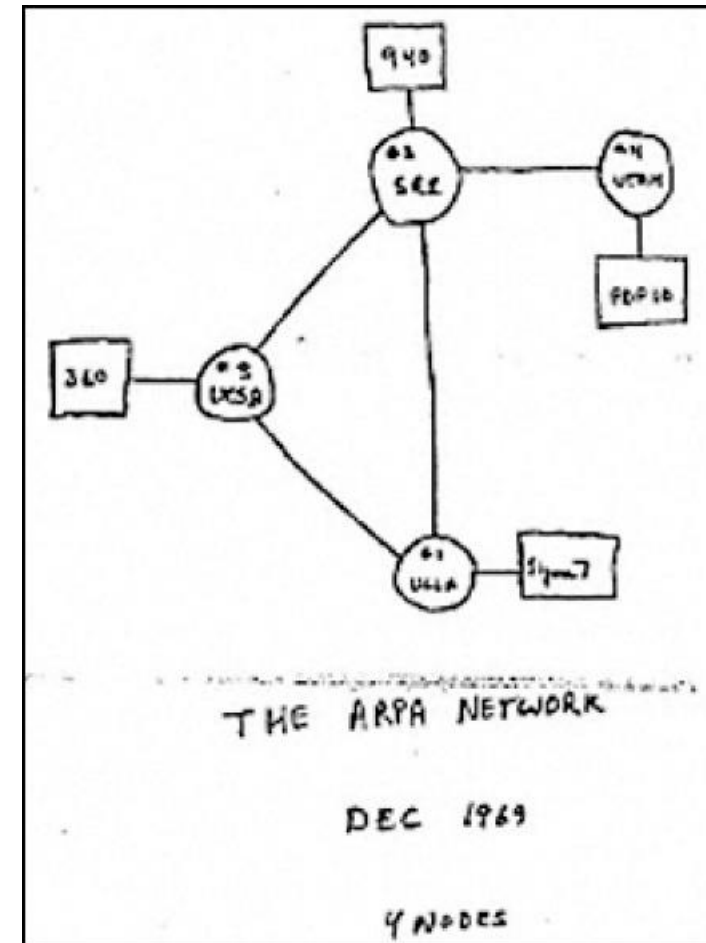
- Recognize the Importance of the Internet

Recognize the Importance of the Internet



Internet Timeline—How it All Got Started (1 of 5)

- How it all got started
 - 1957—Soviet Union launches Sputnik
 - 1960s—U.S. Department of Defense develops the ARPA project



Internet Timeline—How it All Got Started (2 of 5)

- ARPA (Advanced Research Projects Agency)
 - Started in 1958 by President Eisenhower
 - The Internet started as an ARPA project named ARPANET
 - Had four sites

Internet Timeline—How it All Got Started (3 of 5)

- The Computer Science Network (CSNET)
 - Founded in 1979 by the National Science Foundation
 - Connected computer science departments at universities
 - Used ARPANET technology

Internet Timeline—How it All Got Started (4 of 5)

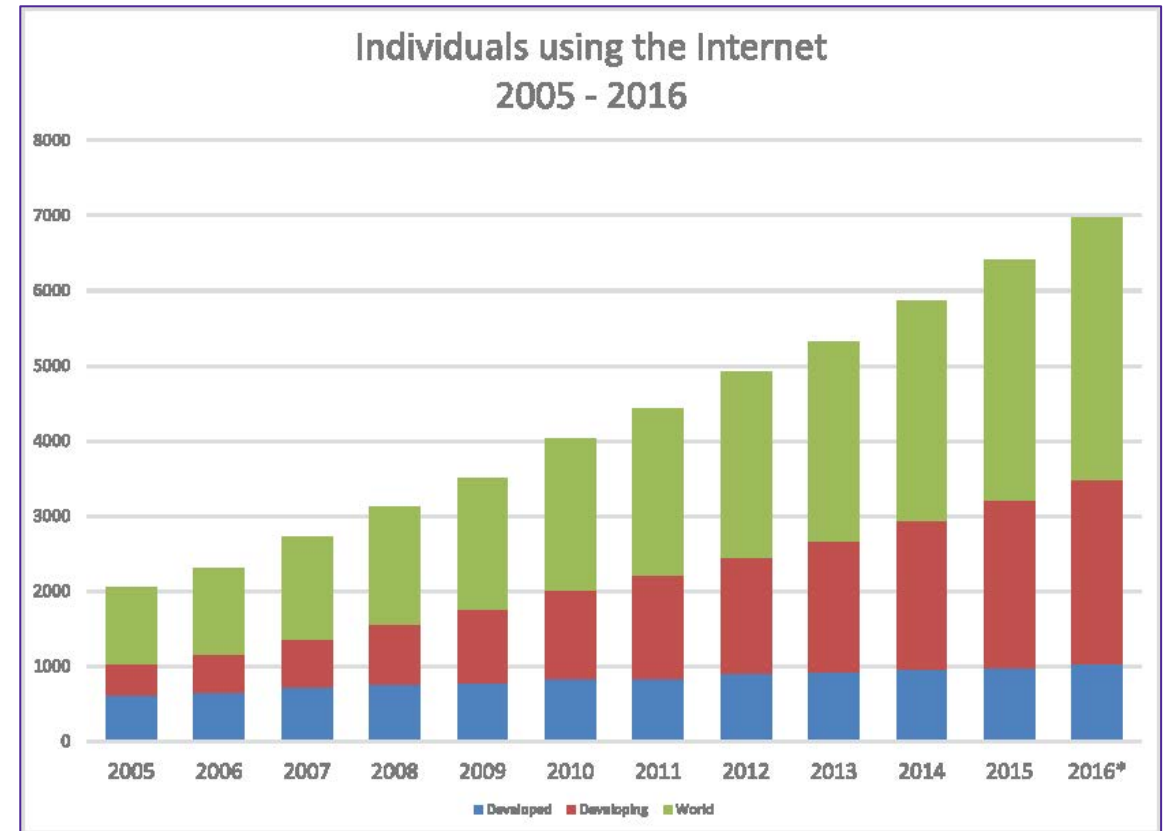
- Internet backbone – high-speed connection points between networks
 - Mid-1980s—NSF created NSFNET
 - Late 1980s—NSFNET was the primary Internet backbone

Internet Timeline—How it All Got Started (5 of 5)

- 1995—NSF backbone decommissioned and privatized
- New backbone established using five Network Access Points
- Today the backbone is composed of Internet Exchange Points around the world

Internet Timeline—World Wide Web (1 of 2)

- One way information moves on the Internet
- Internet and World Wide Web are two different things
- Other ways to use the Internet
 - Email
 - Instant messaging
 - VoIP (Voice over IP)

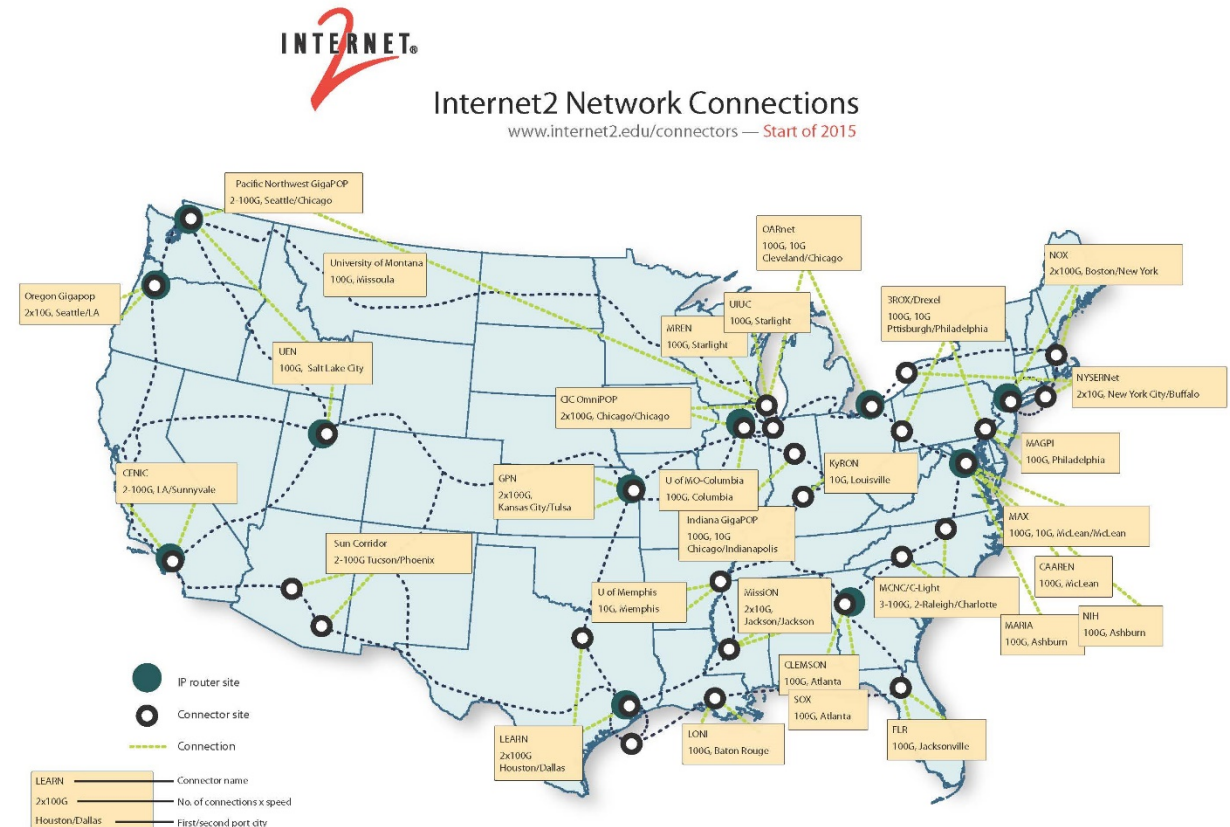


Internet Timeline—World Wide Web (2 of 2)

- Hypertext—text that contains links to other objects
- Hyperlink—links that connect web objects

Internet Timeline—Internet2

- A second Internet for education, research, and collaboration
- Internet2 membership includes
 - Universities
 - Museums
 - Art galleries
 - Libraries
 - Hospitals



NETWORK
PARTNERS

ciena

INDIANA UNIVERSITY

BROCADE

JUNIPER
NETWORKS

Level(3)
NETWORKS

Learning Objective 7.2

- Compare Types of Internet Connections

Compare Types of Internet Connections



Get Connected—How Do You Get Connected? (1 of 3)

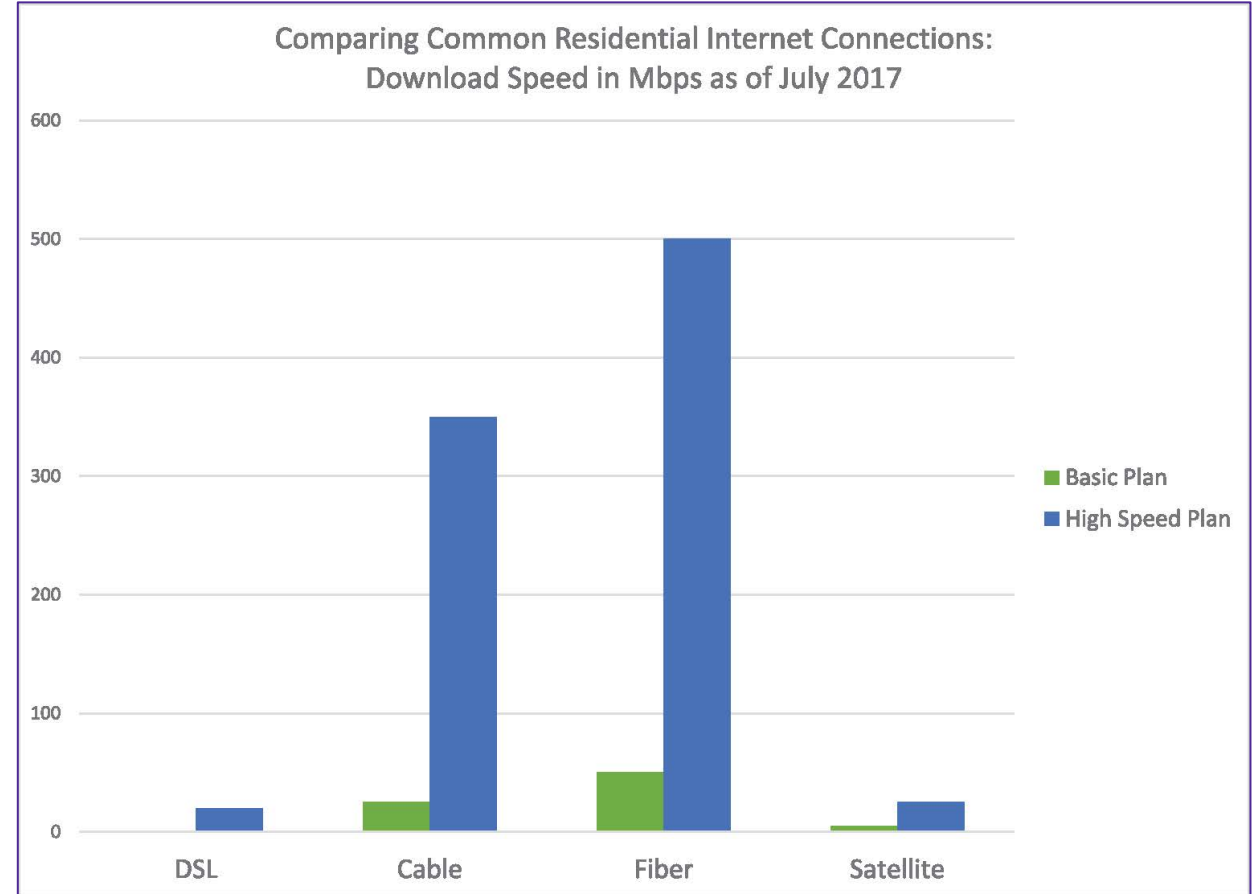
- Internet Service Providers—companies that offer Internet access
- Comparing bandwidth of Internet connections
- Bandwidth—the data transfer rate of a network
 - Measured in kilobits, megabits, or gigabits per second

Get Connected—How Do You Get Connected? (2 of 3)

- Dial-up

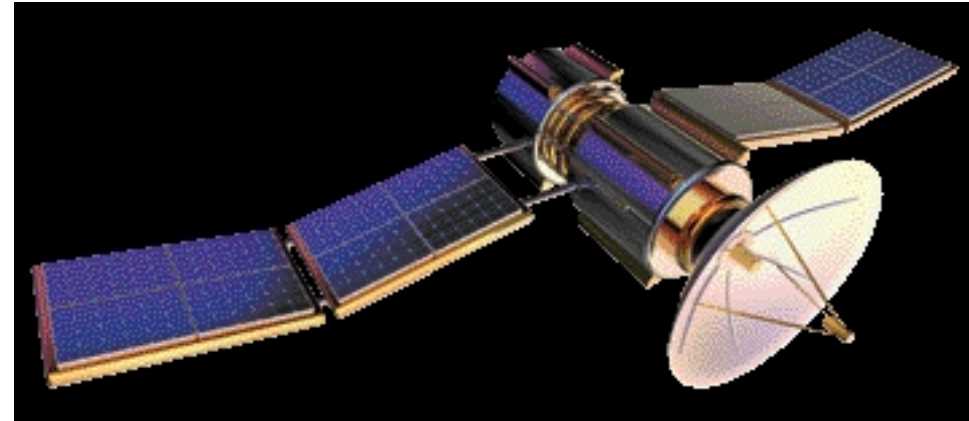
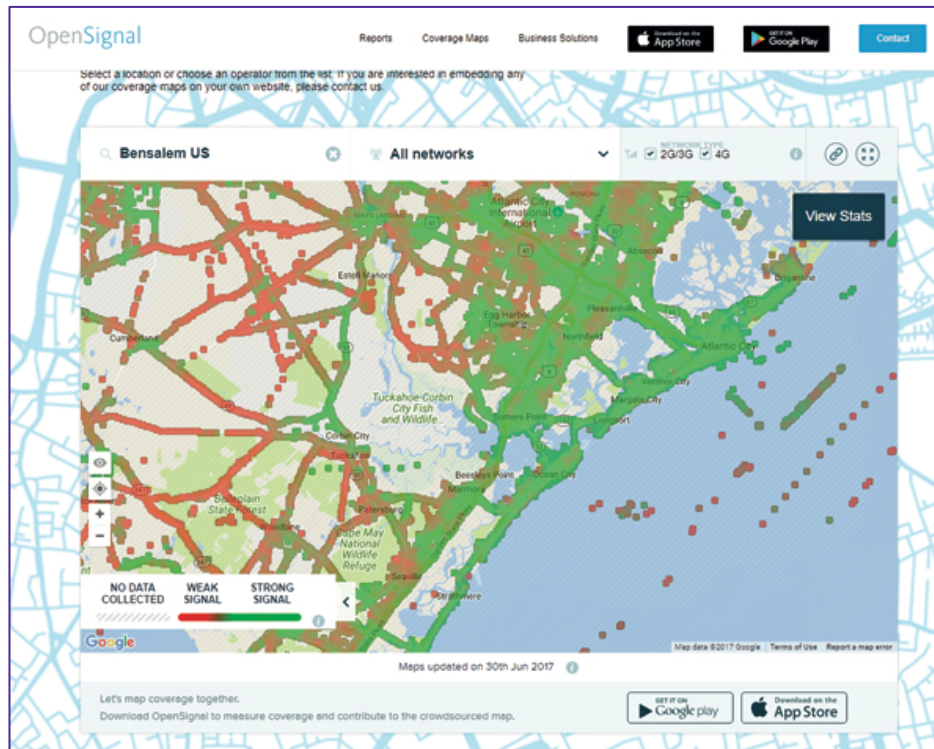


- Broadband
 - Faster web access



Get Connected—How Do You Get Connected? (3 of 3)

- Wireless



Learning Objective 7.3

- Compare Popular Web Browsers

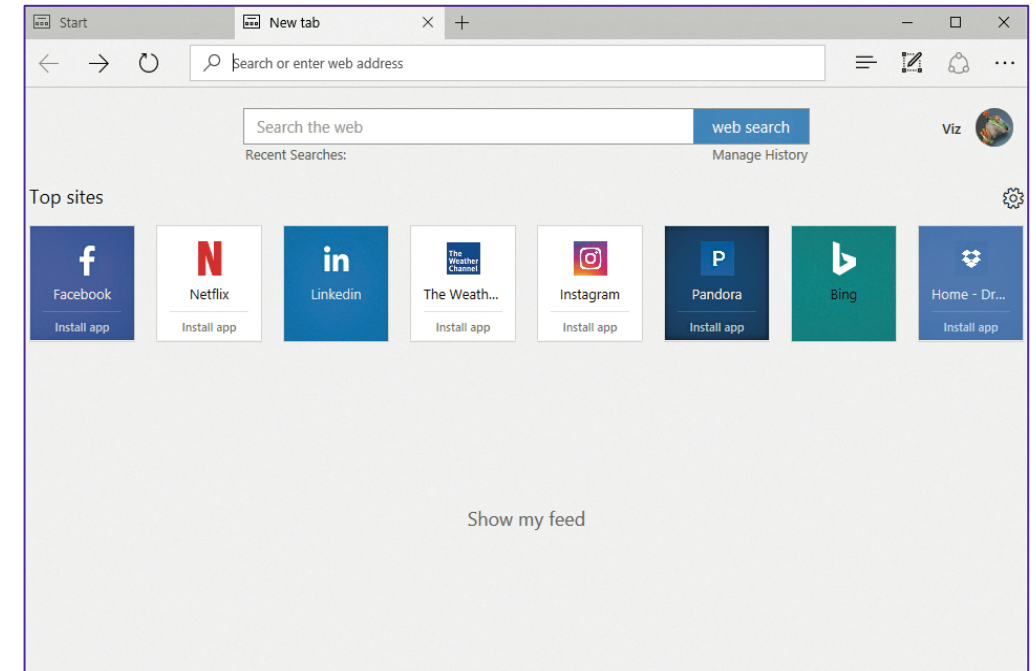
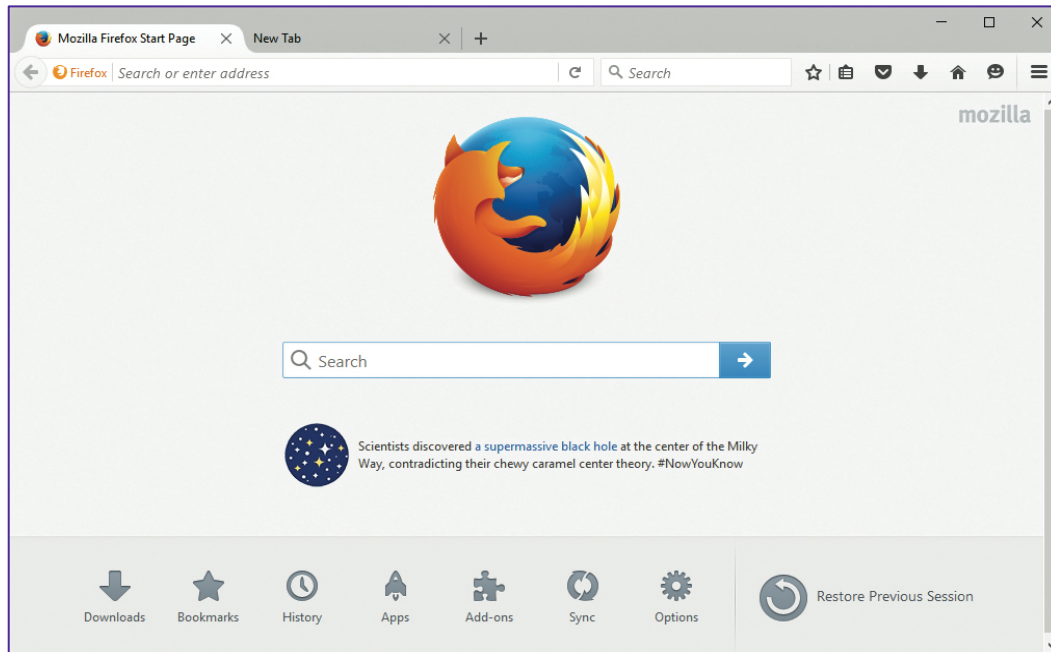
Compare Popular Web Browsers



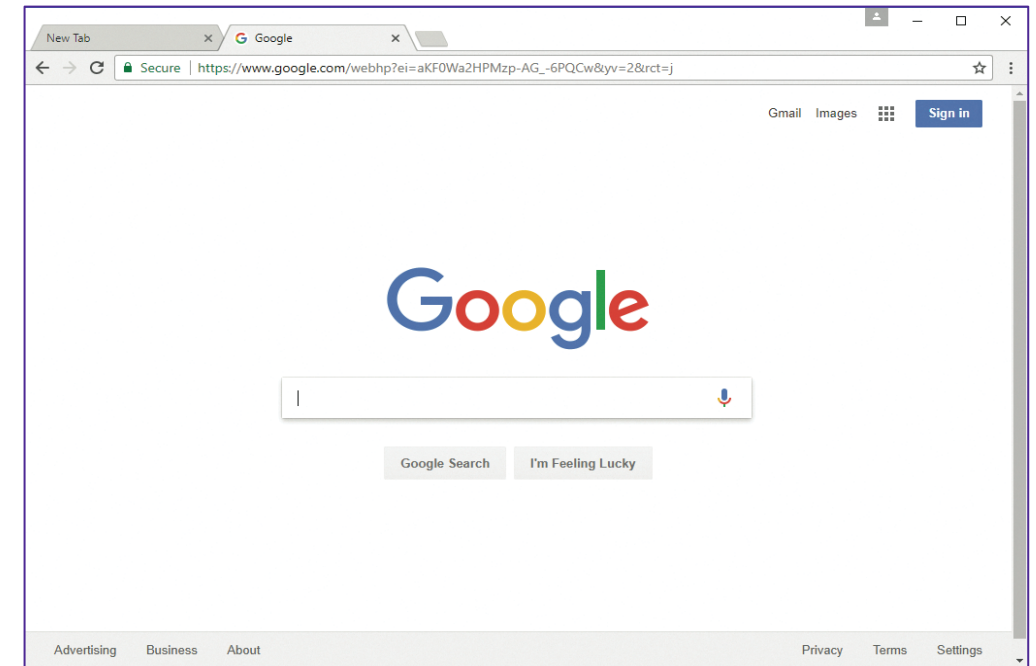
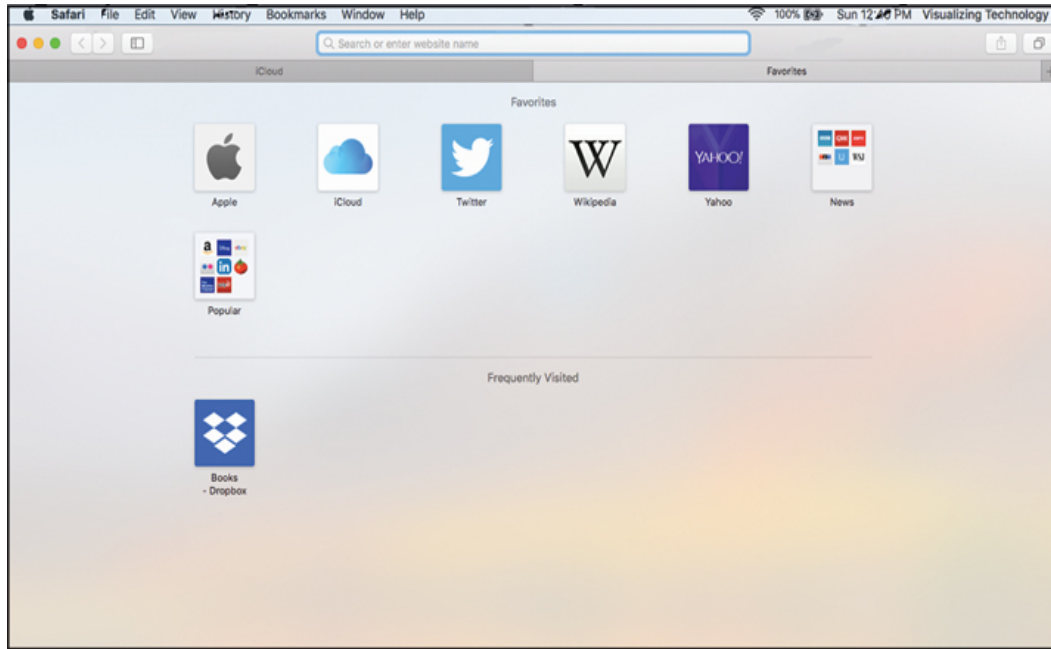
Surf's Up—Web Browsers (1 of 5)

- PC browsers
 - Internet Explorer and Microsoft Edge
 - Firefox
 - Chrome
 - Safari

Surf's Up—Web Browsers (2 of 5)

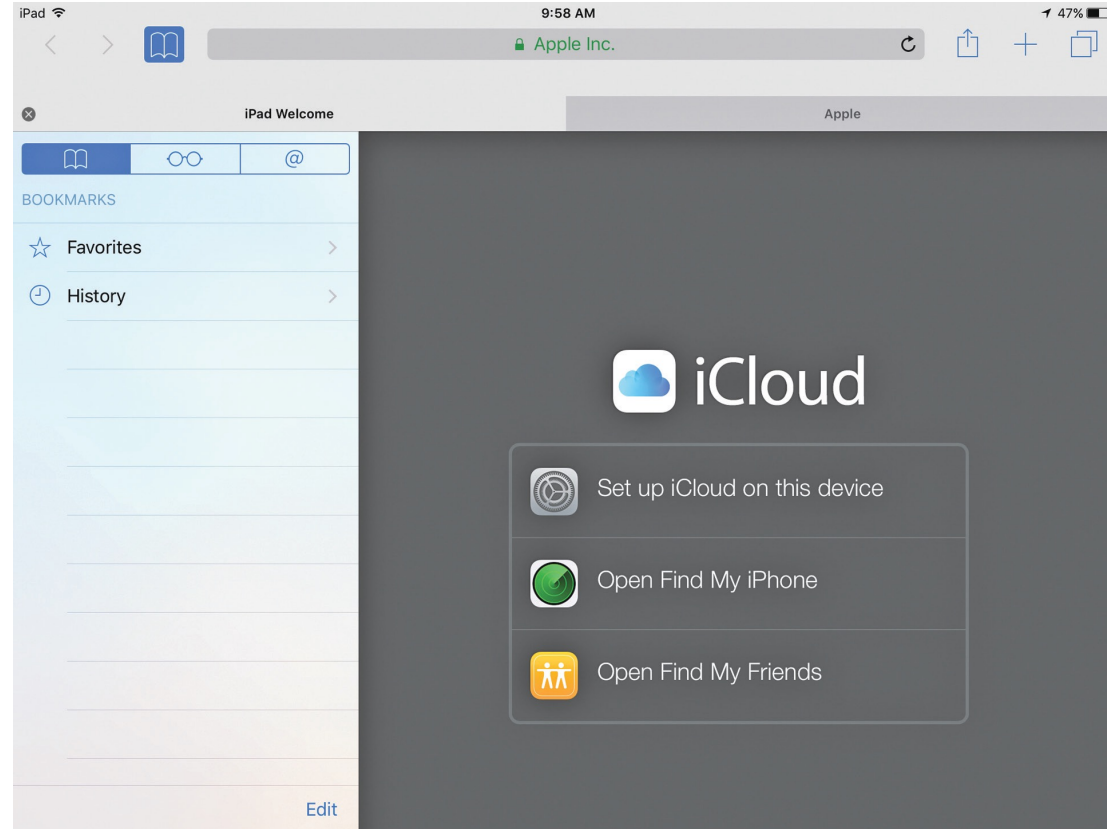


Surf's Up—Web Browsers (3 of 5)



Surf's Up—Web Browsers (4 of 5)

- Mobile browsers
 - Chrome
 - Firefox
 - Safari
 - Opera

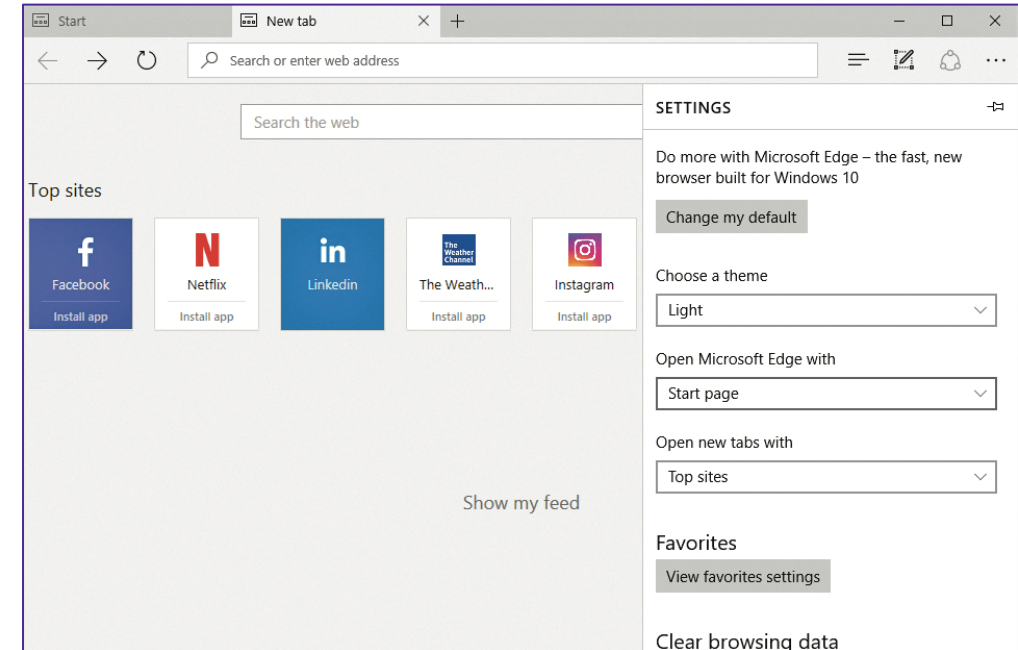
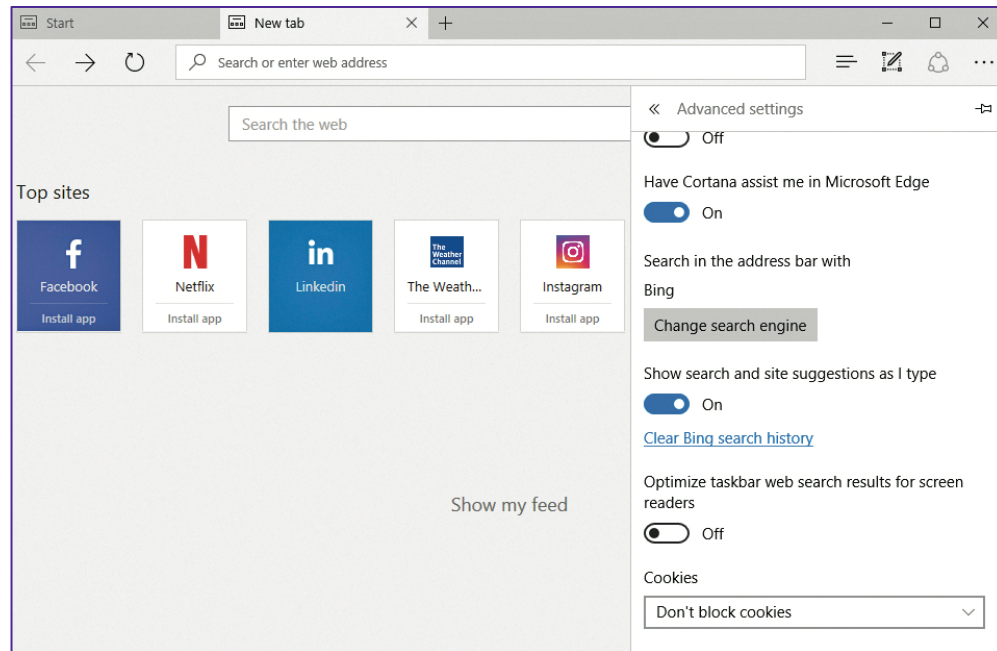


Surf's Up—Web Browsers (5 of 5)

- HTML
 - Hypertext Markup Language
 - Authoring language that defines the structure of a webpage
- Web browsers
 - Programs that interpret the HTML
 - Display webpages
 - Home page—the first page of a website; page that appears when you first open your browser

Surf's Up—Configuring Your Web Browser

- Setting the home page
- Setting the search providers



Surf's Up—Add-Ons, Plug-Ins, and Toolbars (1 of 2)

- Plug-in
 - Third-party program, such as Adobe Reader
- Add-on
 - Created for a specific browser to add features to it

Surf's Up—Add-Ons, Plug-Ins, and Toolbars (2 of 2)

- Toolbar
 - Added to a browser for quick access to a feature of an application that installed it
 - Be wary of toolbars that come bundled with software
 - Can be a source of malware and can slow down browsing

Learning Objective 7.4

- Demonstrate How to Navigate the Web

Demonstrate How to Navigate the Web



Navigating the Net

- Two ways to navigate to a website
 - Type the URL (uniform resource locator) webpage address
 - <http://www.google.com>
 - Follow hyperlinks embedded in the webpages

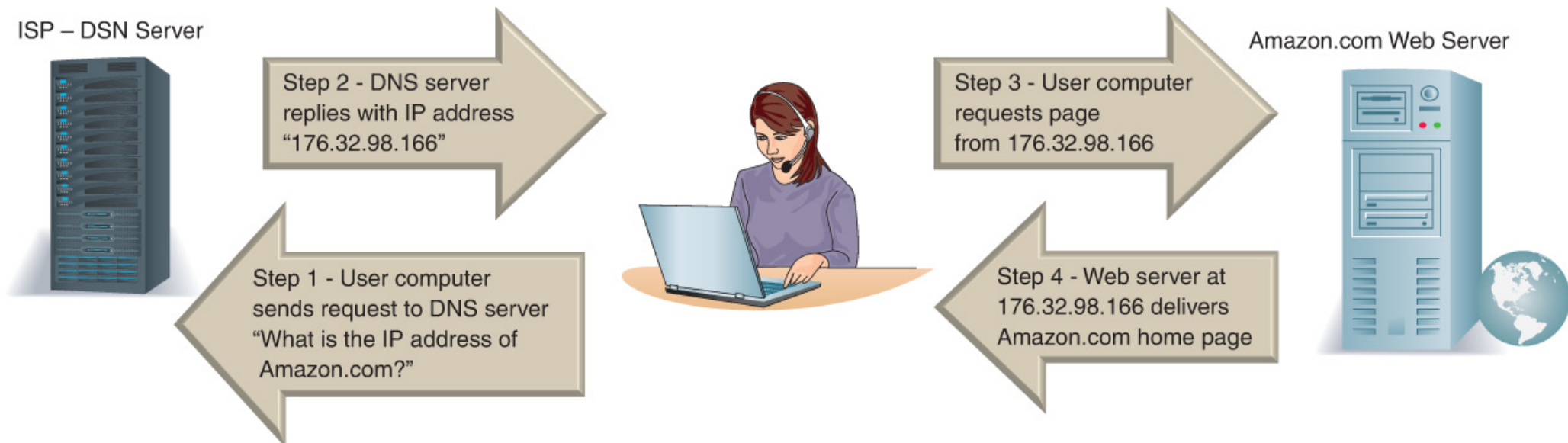
Navigating the Net—Web Addresses (1 of 2)

- ICANN
 - Internet Corporation for Assigned Names and Numbers
 - Coordinates the Internet naming system
- IP address
 - Internet Protocol address
 - Unique numbered address associated with a website



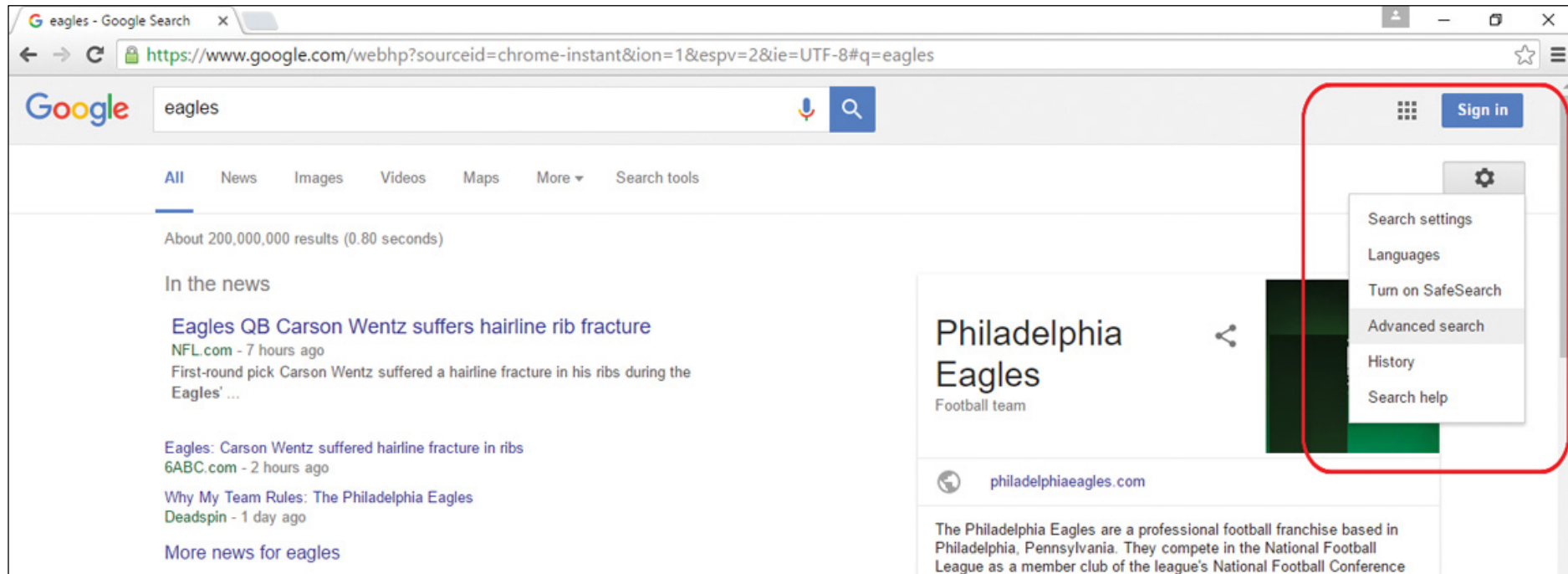
Navigating the Net—Web Addresses (2 of 2)

- DNS
 - Domain Name System
 - Provides a user-friendly name instead of an IP address



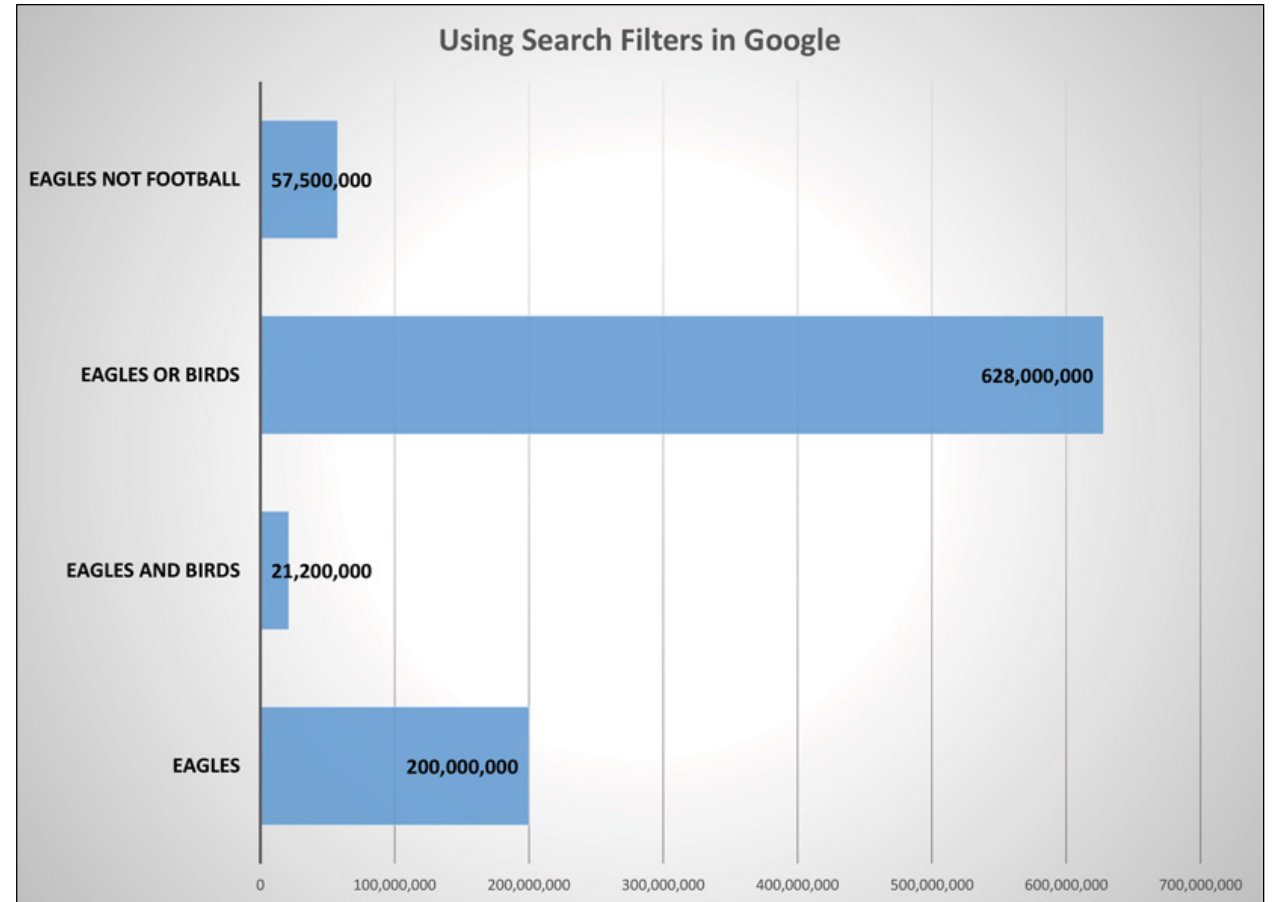
Navigating the Net—Smart Searching

- Search engines are databases that index the web



Searching the Web

- Boolean operators define a relationship between words
 - AND
 - OR
 - NOT



Learning Objective 7.5

- Discuss How to Evaluate the Credibility of Information Found on the Web

Discuss How to Evaluate the Credibility of Information Found on the Web



Would I Lie to You?—Who Wrote It? (1 of 4)

- User-generated content
 - Content written by everyday users
 - Blogs
 - Websites
 - Wikis
 - Social media sites

Would I Lie to You?—Who Wrote It? (2 of 4)

- It is important to know about blogs
 - What is credible
 - How to evaluate the information you find

Would I Lie to You?—Who Wrote It? (3 of 4)

- Check for credibility
 - Look at the URL
 - Top-level domain (TLD)—.edu, .gov, or .com
 - Read the home page and the About Us page
 - Conflicts of interest or obvious biases
 - Contact information

Would I Lie to You?—Who Wrote It? (4 of 4)

- Stick with well-known sources for important information
- Use Google Scholar for scholarly research

Would I Lie to You?—What about the Design?

- How up-to-date is the website?
 - Usually found at the bottom of the home page
- Look at the design of the website
 - Sophisticated
 - Lacks grammar and spelling errors
- Does the information match other sites?



Questions



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