

The Internet and World Wide Web

Chapter 4



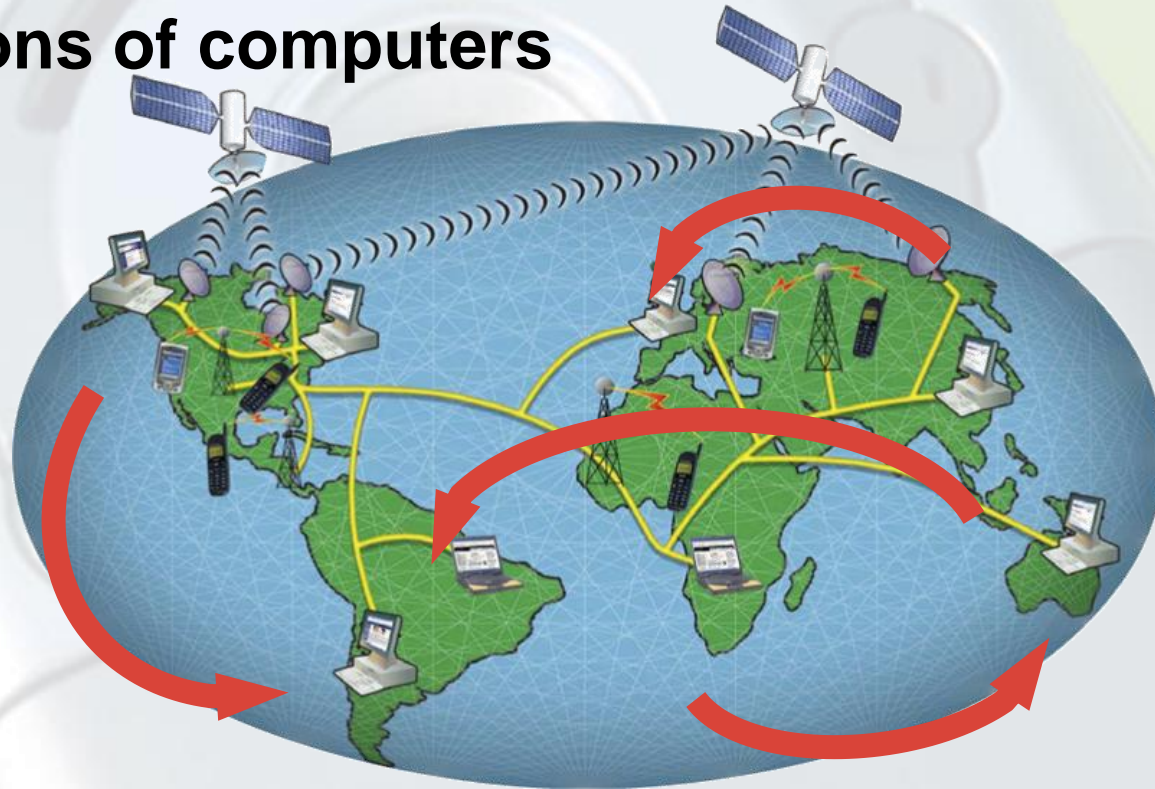
ITBIS105
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The Internet



- What is the **Internet**?

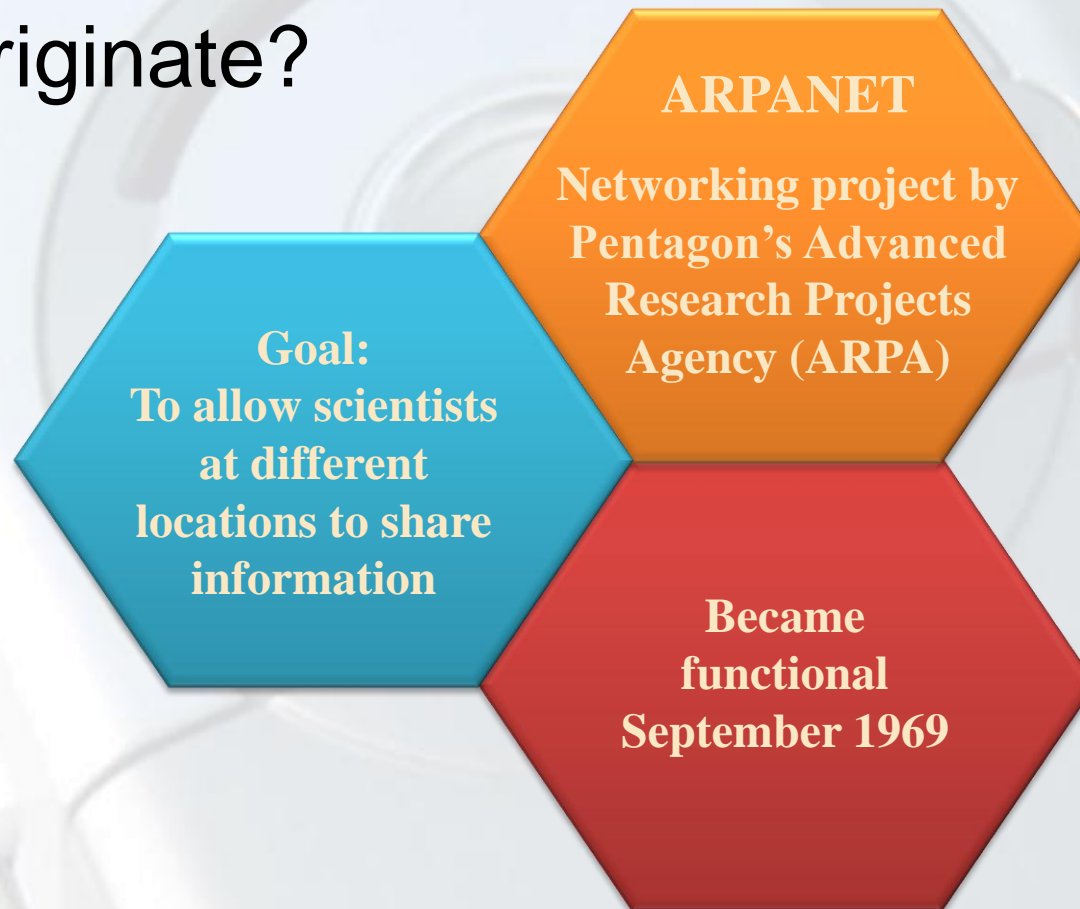
Worldwide collection of networks that connects millions of computers



History of the Internet



- How did the Internet originate?



History of the Internet



- How has the Internet grown?

Today
More than 150 million host nodes

1969
Four host nodes

History of the Internet



- Who controls the Internet?
 - **No one—it is a public, cooperative, and independent network**

How the Internet Works



- How can you connect to the Internet?

Slow-speed technology

Dial-up access modem in your computer uses a standard telephone line to connect to the Internet

Connection must be established each time you log on.
Slow but inexpensive

High-speed connection

Digital subscriber line (DSL), cable telephone Internet services (CATV), cable modem provide connections using regular copper telephone lines

Connection is always on—whenever the computer is running

The World Wide Web



What is the **World Wide Web (WWW)**?

A worldwide collection of electronic documents

Also called the **Web**

Each electronic document is called a **Web page**

Can contain text, graphics, sound, video, and animation

A Web site is a collection of related Web pages

The World Wide Web



- What is a **home page**?
 - The first page that a Web site presents
 - Often provides connections to other Web pages



The World Wide Web



- What is a **Web browser**?
 - Program that allows you to view Web pages

Microsoft
Internet
Explorer



Netscape

Mozilla

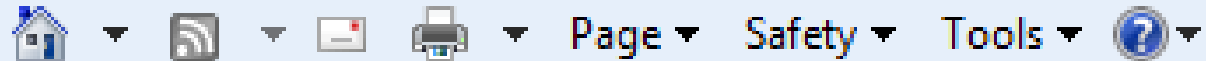
Elements of the Web Browser



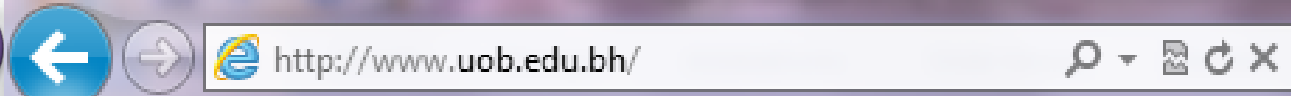
Menu Bar

File Edit View Favorites Tools Help

Command bar



URL Bar



Workspace

Status Bar

Internet Service Provider (ISP)



- Internet Service Provider (ISP), is any company that
- provides individuals and organizations with access to
- or presence on the Internet.
- E. g. Batelco.

The World Wide Web



- What is **downloading**?

- The process of a computer receiving information
- The transmission of information from a local computer to a remote computer is called **Uploading**



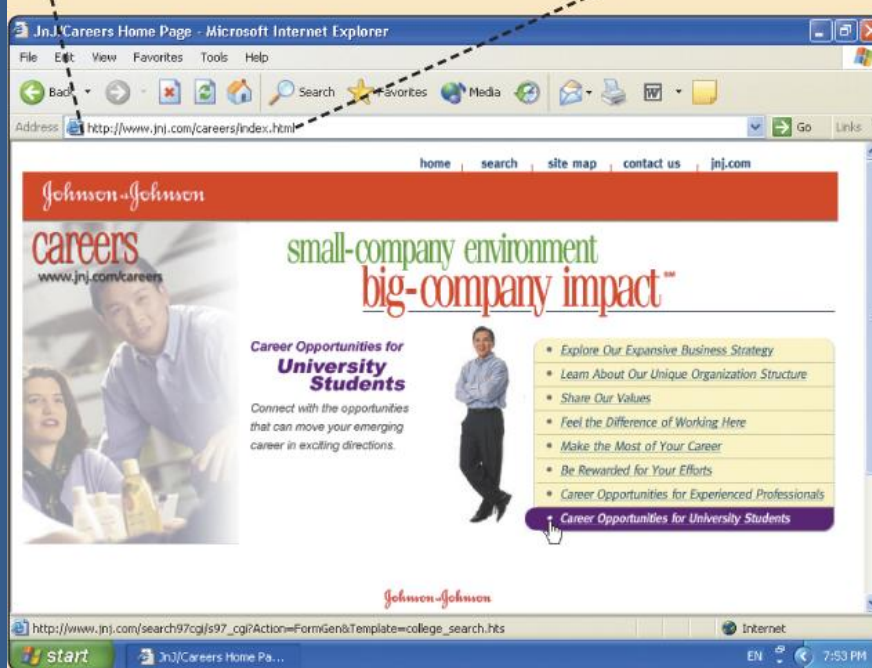
The World Wide Web



- What is a **URL**?

protocol domain name path Web page name

http://www.jnj.com/careers/index.html



The screenshot shows a browser window with the following elements:

- Address bar: `http://www.jnj.com/careers/index.html`
- Page title: JNJ Careers Home Page - Microsoft Internet Explorer
- Navigation menu: home, search, site map, contact us, jnj.com
- Logo: Johnson & Johnson careers
- Text: small-company environment, big-company impact™
- Section: Career Opportunities for University Students
- List of links:
 - Explore Our Expansive Business Strategy
 - Learn About Our Unique Organization Structure
 - Share Our Values
 - Feel the Difference of Working Here
 - Make the Most of Your Career
 - Be Rewarded for Your Efforts
 - Career Opportunities for Experienced Professionals
 - Career Opportunities for University Students

Unique address
for a Web page

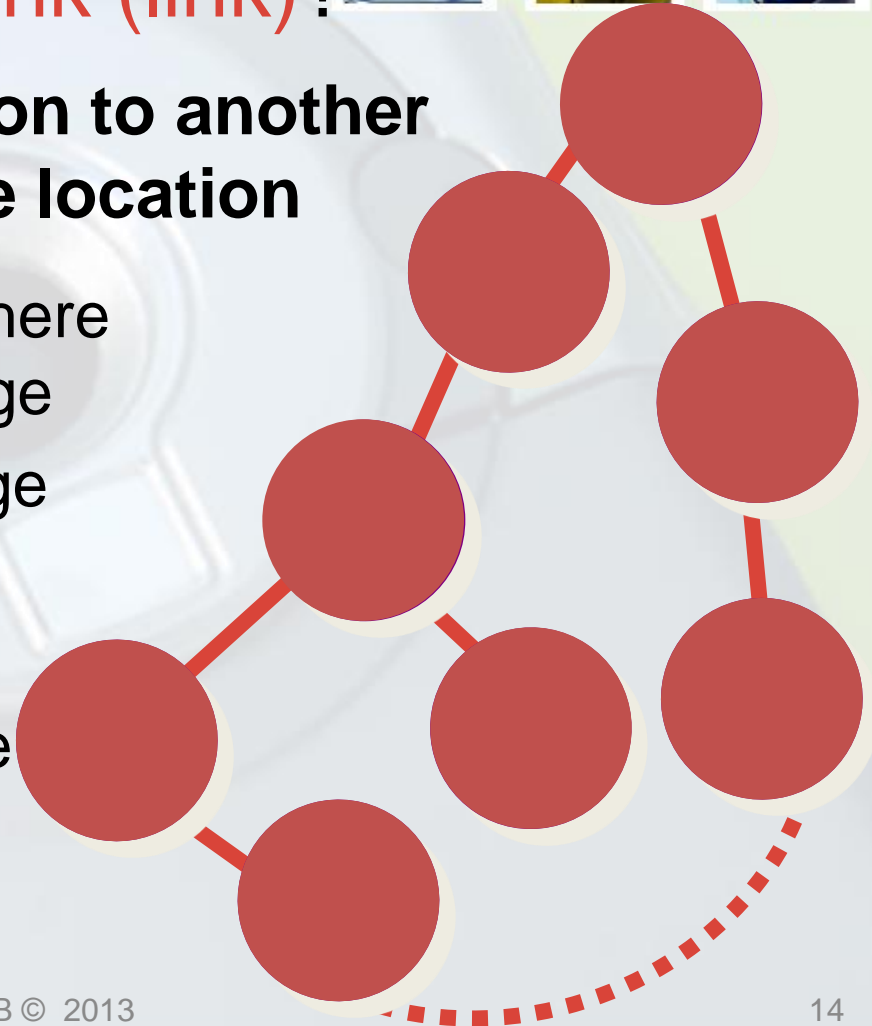
The World Wide Web



- What is a **hyperlink (link)**?

- **Built-in connection to another related Web page location**

- Item found elsewhere on same Web page
- Different Web page at same Web site
- Web page at a different Web site

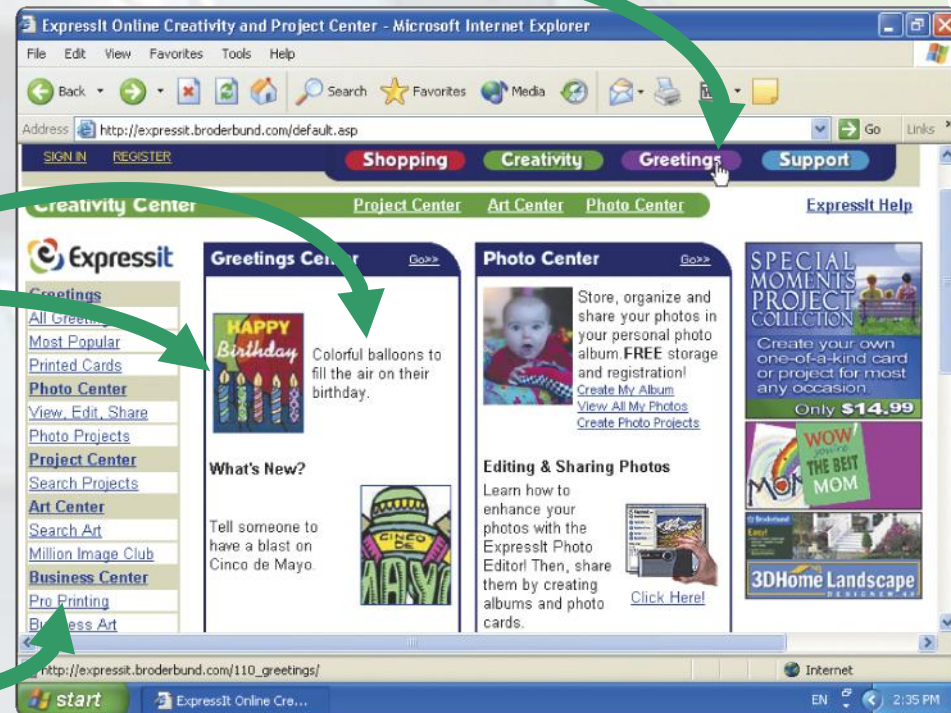


The World Wide Web



How can you recognize **links**?

- Pointer changes to a small hand when you point to a link
- A link can be text or an image
- Text links are usually underlined and in a different color



The World Wide Web



- What is a **search engine**?

- **Program used to find Web sites and Web pages by entering words or phrases called **search text****
 - Also called a **keyword**

Search Engine	Web Address
AllTheWeb	alltheweb.com
AltaVista	altavista.com
Ask Jeeves®	askjeeves.com
Excite	excite.com
Google	google.com
HotBot	hotbot.com
LookSmart	looksmart.com
Lycos	lycos.com
Overture	overture.com
WebCrawler™	webcrawler.com
Yahoo!	yahoo.com

The World Wide Web



- What is a **portal**?
 - A Web site that offers a variety of services from one, convenient location, usually for free
 - E. g. Yahoo



The World Wide Web



- What is **multimedia**?
 - **Application integrating text with other media elements**

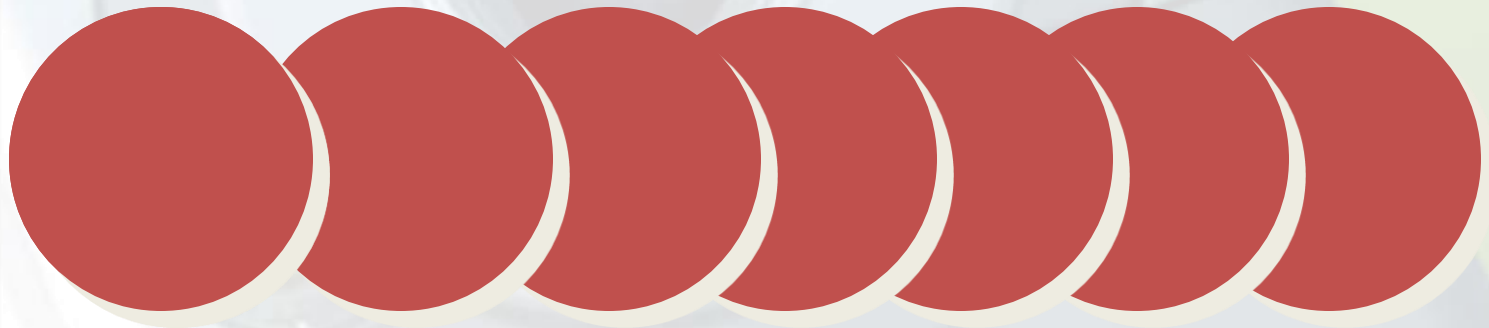
- Graphics
- Animation
- Audio
- Video



The World Wide Web

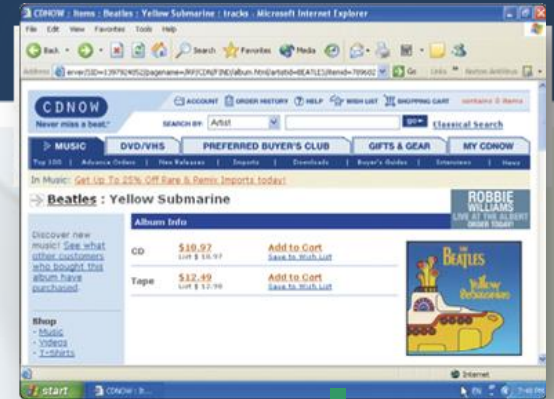


- What is **animation**?
 - Appearance of **motion** created by displaying a series of still images in sequence



The World Wide Web

- What is **audio**?
 - **Music, speech, or any other sound**
 - Common Web audio file formats are MP3, WAV, WMA (Windows Media Audio), MPEG, RealAudio, and QuickTime

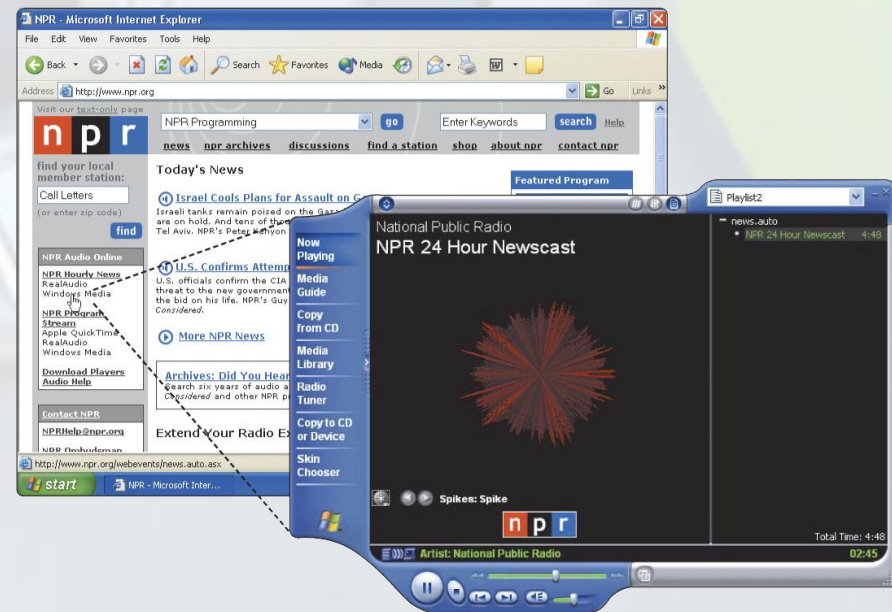


The World Wide Web



- What is **streaming audio**?

- Transfers data in a continuous and even flow.
- Enables you to listen to the sound as it downloads to your computer.



Other Internet Services



Services found on the Internet?

1. **E-mail**
2. **Web**
3. **Message board**
4. **Chat**
5. **File transfer**
6. **Instant messaging**



Other Internet Services

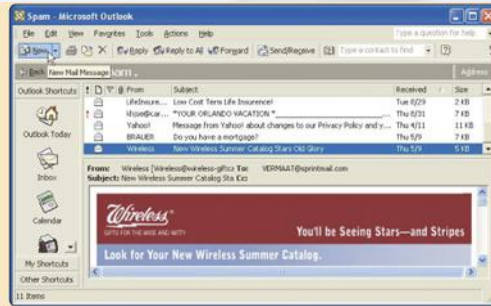


- What is **e-mail**?
 - **Short for electronic mail**
 - **The transmission of messages and files via a computer network**
 - Messages can consist of simple text or can contain attachments, such as documents, graphics, or audio/video clips
 - Internet access providers usually provide an e-mail program
 - Some Web sites—such as MSN Hotmail and Yahoo!—provide free e-mail services

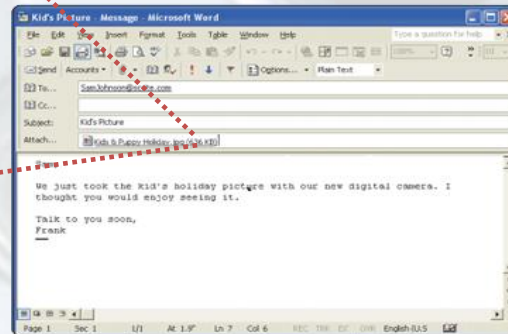
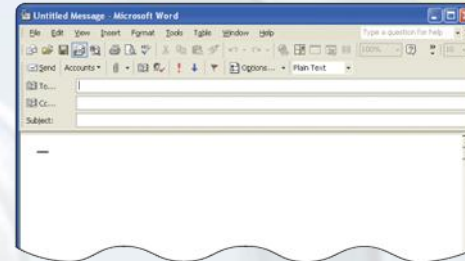
Sending an e-mail



Step 1.
Start an e-mail program (Microsoft Outlook, for example)



Step 2.
Click the New Mail Message button



Step 3.
Enter the recipient's e-mail address, the subject, and the message

Step 5.
The recipient opens the message

Step 4.
Click the Insert file button if you want to attach a picture, for example, and click Send

Other Internet Services



- What is an **e-mail address**?
 - **Unique name that consists of a user name and domain name that identifies the user**

SamJohnson@scsite.com



Other Internet Services



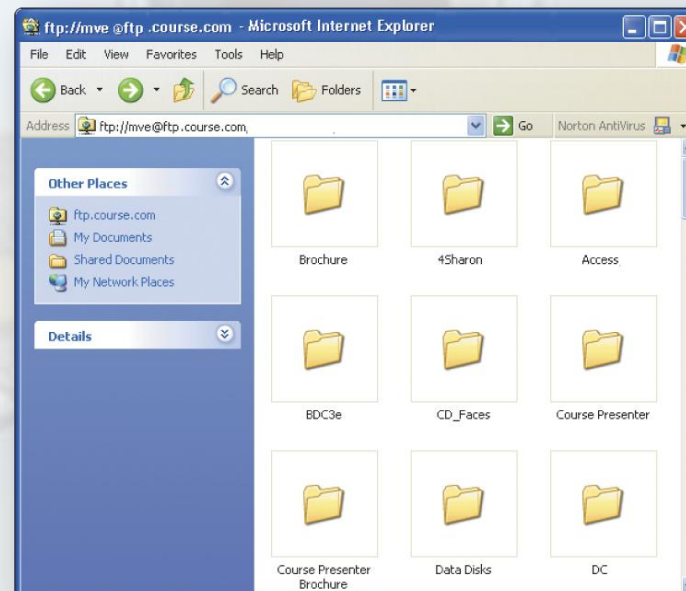
- What is a **chat**?
 - Real-time typed conversation that takes place on a computer
 - Chat room is location on server that permits users to discuss topics of interest



Other Internet Services



- What is **FTP**?
 - **File Transfer Protocol**—Internet standard that allows you to upload and download files with other computers on the Internet



Other Internet Services



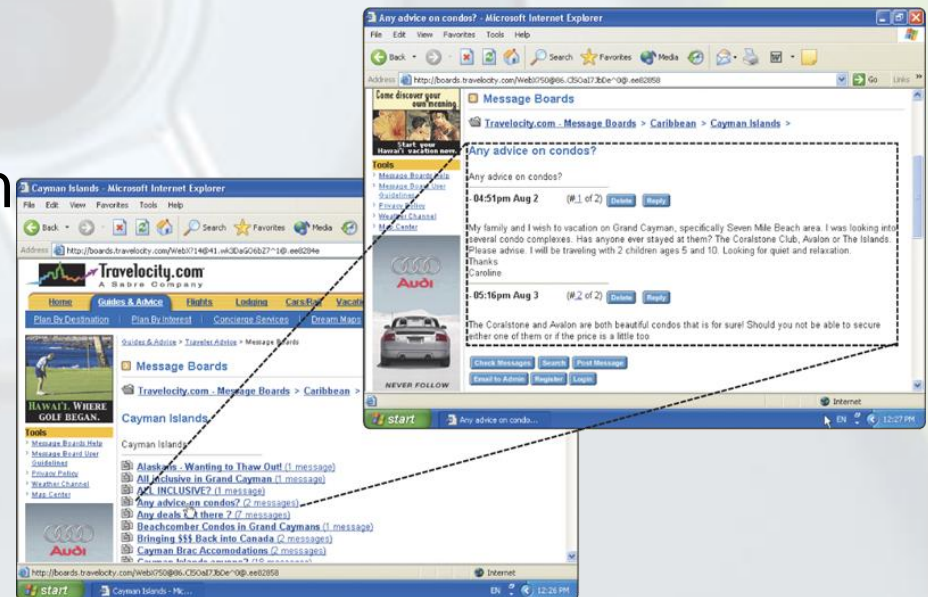
- What are **newsgroups** and **message boards**?

➤ **Newsgroup**

- Online area where users discuss a particular subject

➤ **Message board**

- Type of discussion group
- Many Web sites use message boards because they are easier to use



Other Internet Services



- What is a **mailing list**?
 - Group of e-mail addresses given a **single name**
 - When a message is sent to the mailing list, everyone on the list receives the message
 - To add your name to a mailing list you must subscribe to it; to remove your name you must unsubscribe

Weather by eMail : Forecast : Foster, Rhode Island - Microsoft Internet Explorer

Address: http://63.236.214.17/cgi-bin/weather/forecastweather.cgi

Local Info
Shortterm Forecast
Zone Forecast

State Information
Current Conditions
Hourly Round Up
State Forecast
State Watches
State Warnings
Special Report
Public Report
Summary Report
State Map

National Information
National Forecast
National Summary

Current Conditions for Rhode Island:
Updated: May 13 - 5:55 PM EST

Humidity: 93%
Wind Speed: ENE 13 MPH G 15
Barometer: 29.66 in. (1004 mb)
Dewpoint: 42°F (°C)
Heat Index: 44°F (°C)
Wind Chill: 30°F (°C)

Overcast
Temp: 44°F (°C)

Forecast for Rhode Island:

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Windy	Chance Showers	Windy	Mostly Sunny	Chance Showers	Chance Showers
Lo 51F	H: 63F Lo 41F	H: 65F Lo 45F	H: 75F Lo 51F	H: 68F Lo 51F	H: 61F Lo 51F

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Forecast for Foster, Rhode Island - Message (Plain Text)

From: weatherbyemail.com
To: weatherbyemail.com

Subject: Forecast for Foster, Rhode Island

This Forecast is dated 5:55 AM EDT SAT 5/13/11

Today, Partly sunny. Then mostly cloudy with scattered showers and thunderstorms in the afternoon. High 60 to 65. Light southeast winds. Chance of rain 50 percent.

Tonight, showers likely early in the evening. Then mostly cloudy with a chance of showers. Low 60 to 65. Southeast winds around 10 mph. Chance of rain 40 percent.

Sunday, Mostly cloudy with a chance of showers. Scattered afternoon thunderstorms. High 63 to 68. Southeast winds 10 to 15 mph. Chance of rain 40 percent.

Sunday night, Mostly cloudy with a chance of showers. Scattered evening thunderstorms. Low 63 to 68. Chance of rain 40 percent.

Monday, Becoming mostly sunny. High 65 to 67.

Monday night, Mostly clear. Low 58 to 63.

Tuesday, Partly cloudy. High 60 to 65.

Wednesday, Partly cloudy. Low 60 to 65 and higher in the mid 60s.

Other Internet Services



- What is **instant messaging (IM)**?
 - A real-time Internet communications service that notifies you when one or more people are online and allows you to exchange messages or files

Electronic Commerce



- What is **e-commerce**?
 - Short for **electronic commerce**
 - **Business transaction that occurs over the Internet**

Business to consumer (B2C)
Sale of goods to general public

Consumer to consumer (C2C)
One consumer sells directly to another

Business to business (B2B)
Business providing goods and services to other businesses

