

Discovering Computers

FUNDAMENTALS, Second Edition

Chapter 2 The Internet and World Wide Web



Today

Key terms we will discuss today:

- Internet
- Internet service provider
- Email
- The Web, web site, web page
- Hyperlink

Pay attention to the difference between

- WWW and the Internet
- IP address and URL
- Web Browser and Search Engine
- Web site and Web Page
- Domain name and email address

The Internet

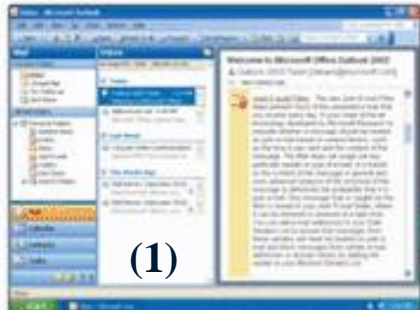
- A worldwide collection of computers connected together that links millions of businesses, government agencies, educational institutions and individuals.
- Think of the internet as the computer hardware or the tangible part of the network.
- It started in 1969 with 4 host computers and has grown to more 200 million host computers over the last 37 years

The Internet

What are some services found on the **Internet**?

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

Figure 2-1b (e-mail)



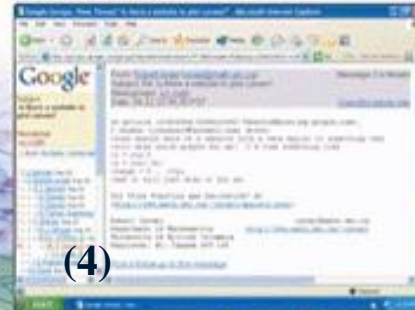
(1)

Figure 2-1c (FTP - File Transfer Protocol)



(3)

Figure 2-1d (newsgroup)



(4)

Figure 2-1e (chat)



(5)

Figure 2-1a (Web)



(2)

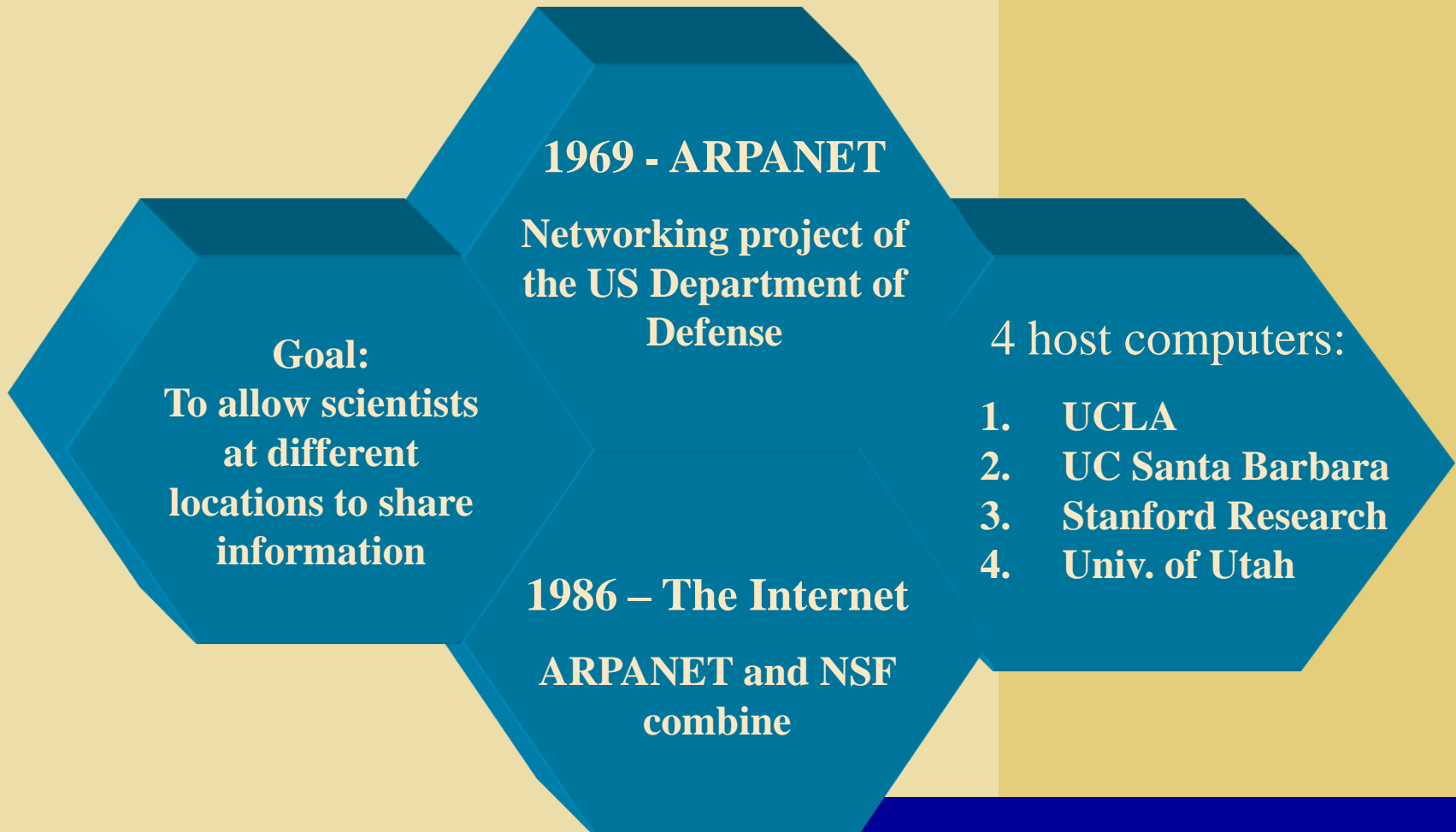


(6)

Figure 2-1f (instant messaging)

The Internet

How did the Internet originate?



The Internet

Who controls the Internet?

- **No one—it is a public, cooperative, and independent network**

World Wide Web Consortium (W3C)

- **Oversees research, sets standards and guidelines**
- **More than 500 member organizations**

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**, fixed wireless, and satellite modems

Connection is always on—whenever the computer is running

How the Internet Works

What are ways to access the Internet?

1. **ISP - Internet Service Provider**

- A company that provides Internet access
- regional or national

2. **OSP - Online Service Provider**

- A company that provides Internet access and other services – membership required
- (AOL and MSN, for example)

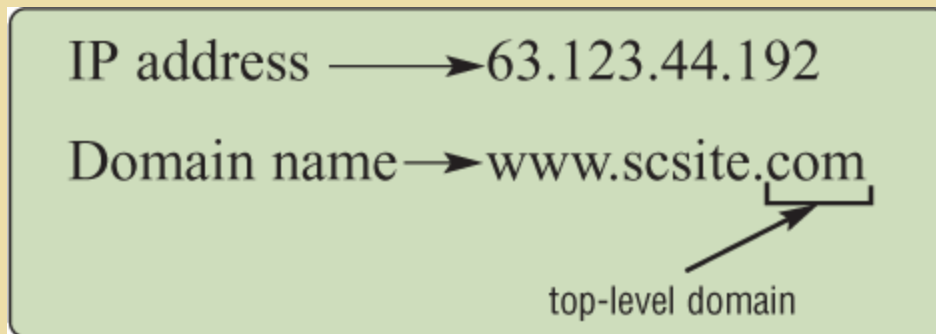
How the Internet Works

What is a **domain name**?

Unique name that identifies every web site

What is the **Internet protocol (IP) address**

- Number that uniquely identifies each computer or device connected to Internet



TOP-LEVEL DOMAINS

Original Top-Level Domains	Type of Domain
com	Commercial organizations, businesses, and companies
edu	Educational institutions
gov	Government agencies
mil	Military organizations
net	Network providers
org	Nonprofit organizations
Newer Top-Level Domains	Type of Domain
museum	Accredited museums
biz	Businesses of all sizes
info	Businesses, organizations, or individuals providing general information
name	Individuals or families
pro	Certified professionals such as doctors, lawyers, and accountants
aero	Aviation community members
coop	Business cooperatives such as credit unions and rural electric coops

The World Wide Web

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

- Worldwide collection of electronic documents

The **Web** and the **Internet** are **NOT** the same.

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

Web pages connected and related are referred to as a **Web site**

The World Wide Web

What is a **Web browser**?

- Program that allows you to view **Web pages**



Microsoft
Internet
Explorer



Netscape

The World Wide Web

What is a **home page**?

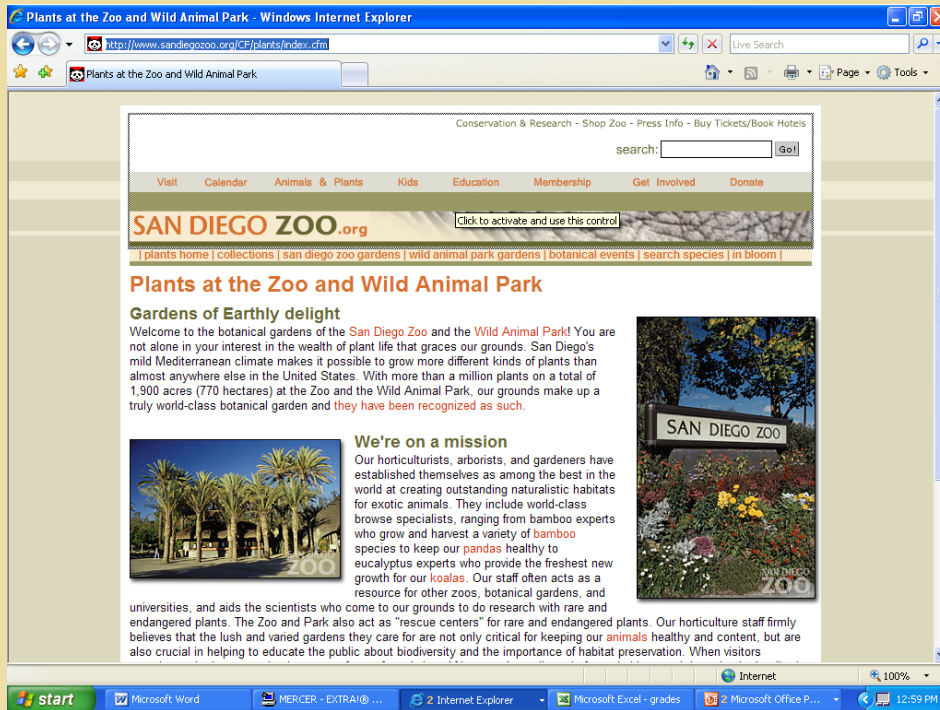
- The first page that a **Web site** displays
- Often provides connections to other Web pages

What is **downloading**?

- The process of a computer receiving information
- Depending upon connection speed, downloading can take from a few seconds to several minutes

The World Wide Web

What is a **URL**?



Unique address for a Web page

- A web server delivers the Web page to your computer

<http://www.sandiegozoo.org/CF/plants/index.cfm>

The World Wide Web

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

- **Connection (link) to a related Web page**
 - 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****

www.google.com

www.yahoo.com

www.dogpile.com

WIDELY USED SEARCH TOOLS

Search Tool	Web Address	Subject Directory	Search Engine
A9.com	a9.com		X
AlltheWeb	alltheweb.com		X
Alta Vista	altavista.com	X	X
AOL Search	search.aol.com		X
AOMI	aomi.com		X
Ask Jeeves	askjeeves.com	X	X
Excite	excite.com	X	X
Gigablast	gigablast.com		X
Google	google.com	X	X
HotBot	hotbot.com		X
LookSmart	looksmart.com	X	X
Lycos	lycos.com	X	X
MSN Search	search.msn.com	X	X
Netscape Search	search.netscape.com	X	X
Open Directory Project	dmoz.org	X	X
Overture	overture.com		X
Teoma	teoma.com		X
WebCrawler	webcrawler.com		X
Yahoo!	yahoo.com	X	X

Get Y! Toolbar | Make Y! your home page Attractive card for ugly credit - Orchard Bank MasterCard - Apply Now



Search: [input] Web Search

My Yahoo! My Mail

Page Options

- Autos
- Finance
- Games
- GeoCities
- Groups
- HotJobs
- Maps
- Movies
- Music
- Personals
- Photos
- Real Estate
- Shopping
- Sports
- Tech
- Travel
- TV
- Yellow Pages
- Food NEW!
- Video NEW!

More Yahoo! Services

Featured Entertainment Sports Life


Jan 16, 2007




Is it quitting time?

If you've lost that loving feeling for your job, it may be time to hit the road. » **Know the telltale signs**


- Take a career assessment quiz
- Quitting with class
- New job Q&A



Is it time to quit your job?



Best and worst dressed from the Golden Globes



Suze Orman gives her hottest financial tips



Sharapova nearly wilts at the Australian Open

» More Featured

In the News World Local Video

As of 12:53 p.m. EST

- Bomb blasts in Baghdad kill at least 109 | Sectarian violence
- Purported Taliban spokesman arrested in Afghanistan
- Olmert dismisses reported Israel-Syria peace plan
- Chemicals on fire from derailed Kentucky train | Massive fire
- Hyundai chairman could face six-year prison term
- Radio transmitters may help locate missing hikers
- NASCAR champion Benny Parsons dies at 65

» More: [News](#) | [Popular](#) | [Business](#)

Markets: Dow: -0.0% Nasdaq: -0.2% Sponsored by: Scottrade

Check your mail status: [Sign In](#) Free mail: [Sign Up](#)

Mail

Messenger

Radio

Weather

Local

Horoscopes



The Celebrity Life Awaits

ENTER FOR A CHANCE TO WIN


Luxurious Hotel

Designer Shopping Sprees

Amazing Spa Treatments

Visit www.gmc.com - Ad Feedback

Inside Yahoo! Search



Awards Season: Popular Searches

Leonardo DiCaprio The Oscars Babel
Fashion Police Helen Mirren 24

Search Web:

Pulse - What Yahoos Are Into

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
 - lyncha@mccc.edu

Other Internet Services

What is an **e-mail address**?

- Unique name that consists of a **user name** and domain name that identifies the user

A photograph of a man in a grey shirt looking at a laptop screen. A semi-transparent box with a light green border contains the email address 'SamJohnson@scsite.com'. Below the box, a stylized envelope icon is overlaid on the laptop screen.

SamJohnson@scsite.com

Other Internet Services

What is **FTP**?

- **File Transfer Protocol**—Internet standard that permits you to upload and download files with other computers on the Internet

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



Click to view Web Link,
click Chapter 2, Click Web Link
from left navigation,
then click Chat Rooms
below Chapter 2

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**

Netiquette

What is **netiquette**?

- **Code of acceptable behaviors users should follow while on the Internet**

Golden Rule: Treat others as you would like them to treat you.

Think about it...

A Microsoft vice president maintains that, “In the long run, it’s hard to exaggerate the importance of the Internet.” Yet, has the Internet’s importance been exaggerated? In an article for *Newsweek* magazine, Robert Samuelson suggests that technologies are historically important when they change lifestyles or beliefs. Technologies such as Gutenberg’s printing press, the automobile, and antibiotics reshaped the human condition by leading to mass literacy, altering where people live, and lengthening life spans. Although still relatively young, Samuelson argues that, to date, the Internet’s impact has been less significant.

- Has the Internet’s importance been exaggerated?

Discussion

Form groups of 3-4 people. Formulate your answers to the following questions:

What is the difference between:

- 1. WWW and the Internet**
- 2. IP address and URL**
- 3. Web Browser and Search Engine**
- 4. Web site and Web Page**
- 5. Domain name and an email address?**