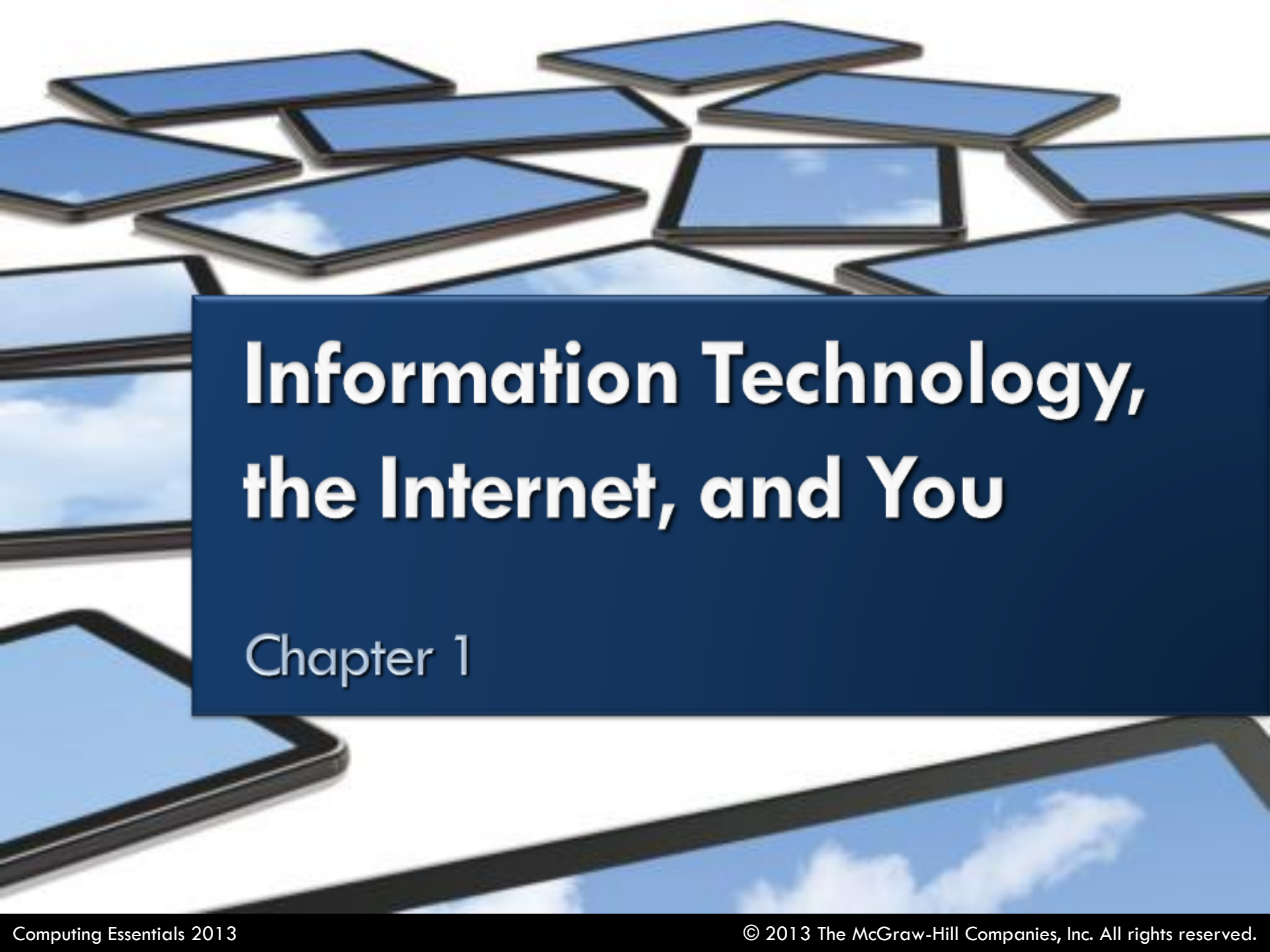




Information Technology, the Internet, and You

Chapter 1

Presentation Tips

- Click the mouse to advance the slides
- Click the [hyperlink](#) to directly advance to the slide associated with the link; click [Return](#) to go back to the calling slide associated with the hyperlink
- All key terms from the end of the chapter display in [light blue](#) the first time used in a slide; if used in notes, key terms are identified
- Discussion questions are set to progressively appear on each mouse click

Competencies (Page 1 of 2)

- Explain the five parts of an information system: people, procedures, software, hardware, and data.
- Distinguish between system software and application software.
- Discuss the three kinds of system software programs.
- Distinguish between basic and specialized application software.

Competencies (Page 2 of 2)

- Identify the four types of computers and the six types of **microcomputers**.
- Describe the different types of computer hardware including the **system unit**, **input**, **output**, **storage**, and **communication** devices.
- Define **data** and describe document, **worksheet**, **database**, and **presentation** files.
- Explain computer **connectivity**, the **wireless revolution**, the **Internet**, **smartphone**, and **cloud computing**.

Introduction

- **Computer competency** refers to acquiring computer-related skills.
- Information systems are involved in many of the things we encounter each day.
- Microcomputers are common in all areas of life.
- New forms of learning online provide alternatives for people to become educated without attending a physical class.
- The Web provides new ways to communicate, to find people with similar interests, and to purchase goods.

Parts of an Information System

- People
- Procedures
- Software



People

- Most important part of any system
- Contact is
 - Direct
 - Indirect
- Computer uses
 - Entertainment
 - Business
 - Medicine
 - Education



Software



System Software



Application Software

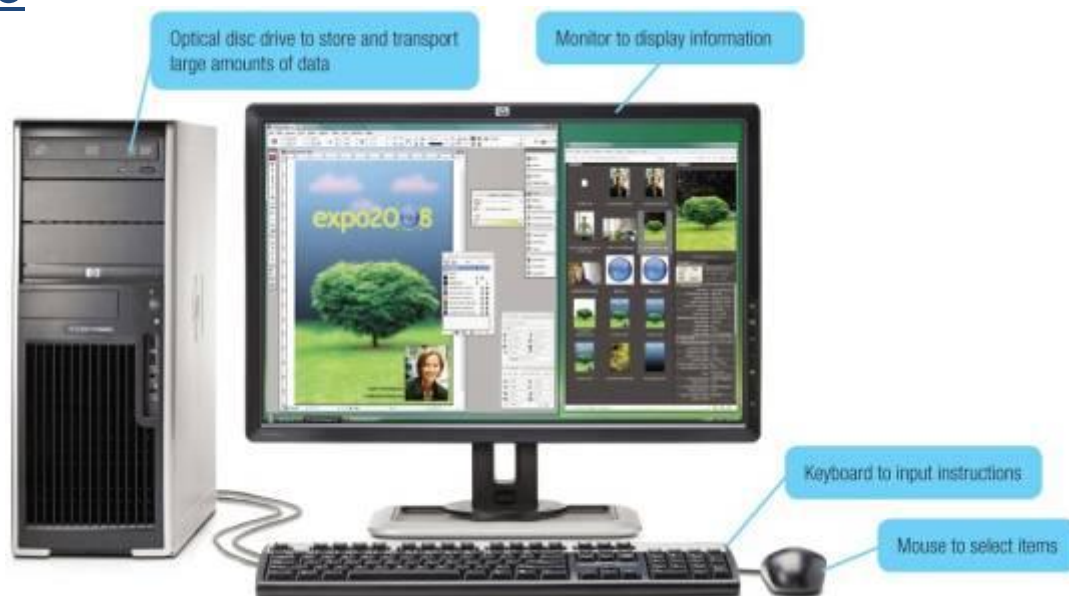
Hardware – Types of Computers

- Supercomputers
- Mainframe computers
- Minicomputers
- Microcomputers

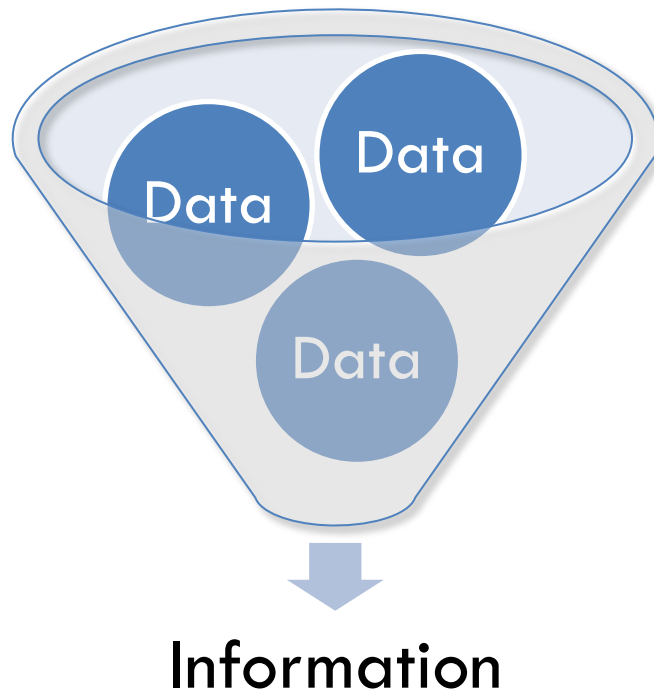


Microcomputer Hardware

- Four basic categories of equipment
 - System Unit
 - Input/Output
 - Secondary Storage
 - Communications



Data



- Raw, unprocessed facts
- Processed data becomes information
- Digital data is stored electronically in files
 - Document files
 - Worksheet files
 - Database files
 - Presentation files

Connectivity, the Wireless Revolution, the Internet, and Cloud Computing

- Connectivity
 - Sharing of information
 - Wireless communication has widespread use
- Computer networks
 - Connected communication system of computers
 - Largest network is the Internet
- Cloud Computing
 - Uses the Internet and the Web to shift many computer activities from a user's computer to computers on the Internet

Careers in IT

- For a complete listing of careers, visit <http://www.computing2013.com/> keyword: careers

Career	Description
Webmaster	Develops and maintains Web sites and Web resources. See page xx.
Computer trainer	Instructs end users on the latest software or hardware. See page xx.
Desktop publisher	Creates and formats publication-ready books, magazines, newsletters, and newspapers. See page xxx.
Computer support specialist	Provides technical support to customers and other users. See page xxx.
Computer technician	Repairs and installs computer components and systems. See page xxx.
Technical writer	Prepares instruction manuals, technical reports, and other scientific or technical documents. See page xxx.
Software engineer	Analyzes users' needs and creates application software. See page xxx.
Network administrator	Creates and maintains computer networks. See page xxx.

A Look to the Future

- The Internet and the Web
- Powerful Software
- Powerful Hardware
- Security and Privacy
- Organizations
- Changing Times



Open-Ended Questions (Page 1 of 2)

- Explain the five parts of an information system.
What part do people play in this system?
- What is system software? What kinds of programs are included in system software?
- Define and compare basic and specialized application software.
 - Describe some different types of basic applications.
 - Describe some types of specialized applications.

Open-Ended Questions (Page 2 of 2)

- Describe the different types of computers.
 - What is the most common type?
 - What are the types of microcomputers?
- What is connectivity? What are wireless devices and the wireless revolution? What is a computer network?
What are the Internet and the Web? What is cloud computing?