Discovering Computers

Technology in a World of Computers, Mobile Devices, and the Internet

Chapter 4
Programs and Apps



Objectives Overview

Identify the general categories of programs and apps

Describe how an operating system interacts with applications and hardware

Differentiate among the ways you can acquire programs and apps

Identify key features of productivity applications

Identify the key features of graphics and multimedia applications

Objectives Overview

Identify the uses of personal interest applications

Identify the purpose of software used in communications

Identify the key features of security tools

Identify the key features of file and disk management tools

- A program, or software, consists of a series of related instructions, organized for a common purpose, that tells the computer what tasks to perform and how to perform them
- An application, or app, sometimes called application software, consists of programs designed to make users more productive and/or assist them with personal tasks
- An operating system is a set of programs that coordinates all the activities among computer or mobile device hardware
 - System software

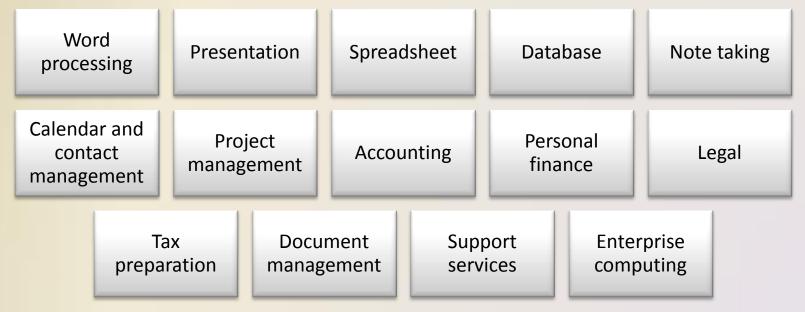
Table 4-1 Progra	ms and Apps by Category	
Category	Types of Programs and Apps	
Productivity (Business and Personal)	Word Processing Presentation Spreadsheet Database Note Taking Calendar and Contact Management Project Management	 Accounting Personal Finance Legal Tax Preparation Document Management Support Services Enterprise Computing
Graphics and Media	Computer-Aided Design (CAD) Desktop Publishing Paint/Image Editing Photo Editing and Photo Management Clip Art/Image Gallery	 Video and Audio Editing Multimedia and Website Authoring Media Player Disc Burning
Personal Interest	LifestyleMedicalEntertainmentConvenienceEducation	
Communications	 Blogging Browser Chat Room Discussion Forum Email FTP 	Instant MessagingVoIPVideoconferenceWeb FeedsWireless Messaging
Security	 Personal Firewall Antivirus Malware Removers Internet Filters 	
File and Disk Management	File ManagerSearchImage ViewerUninstallerDisk Cleanup	Disk DefragmenterScreen SaverFile CompressionPC MaintenanceBackup and Restore



Software is available in a variety of forms:



 Productivity applications can assist you in becoming more effective and efficient while performing daily activities at work, school, and home



With productivity applications, users often:

Create a project

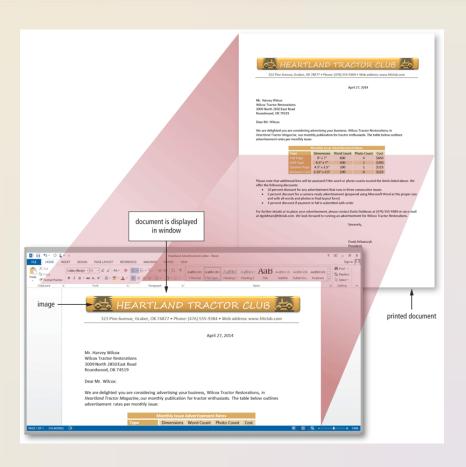
Edit a project

Format a project

Save a project

Distribute a project

- Word processing software allows users to create and manipulate documents
- Clip art is a collection of drawings, photos, and other images



Presentation software
 allows users to create
 visual aids for
 presentations to
 communicate ideas,
 messages, and other
 information to a group



 Spreadsheet software allows users to organize data in rows and columns and perform calculations

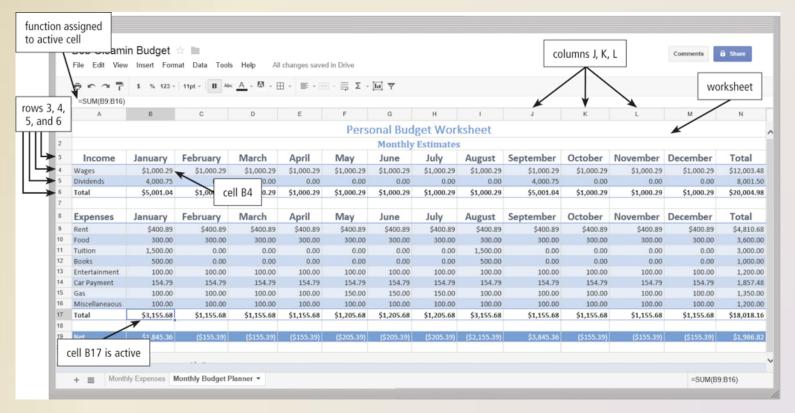
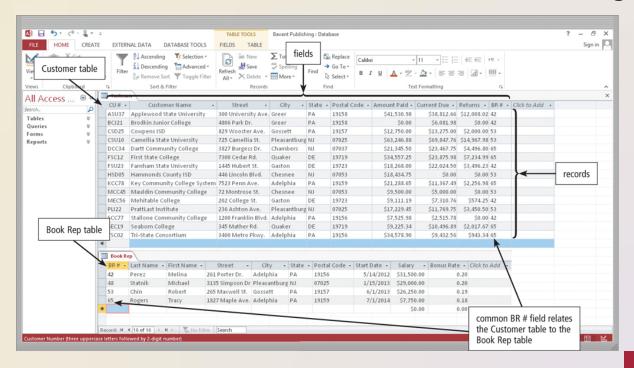


Figure 4-6

 A database is a collection of data organized in a manner that allows access, retrieval, and use of that data

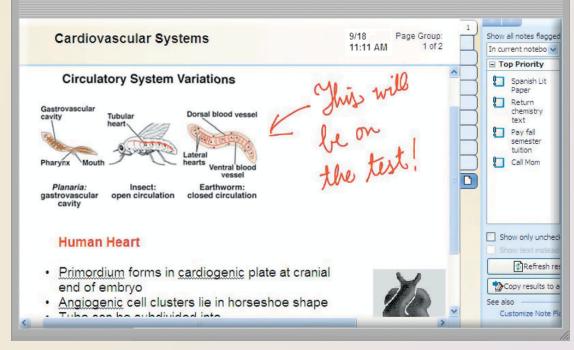
Database software allows users to create, access, and manage

a database

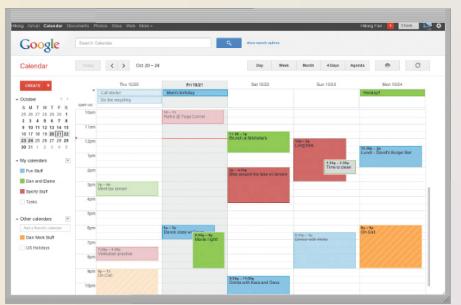


 Note taking software is an application that enables users to enter typed text, handwritten comments, drawings, or sketches anywhere on a

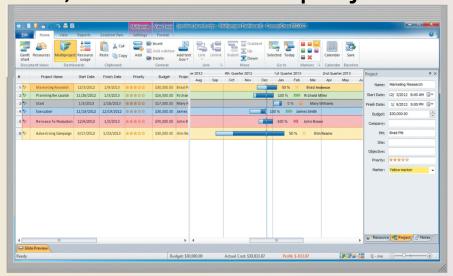
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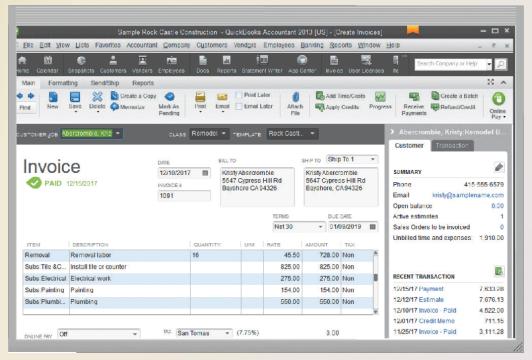
 Calendar and contact management software is an application that helps you organize your calendar, keep track of contacts, and share this information with other devices or users



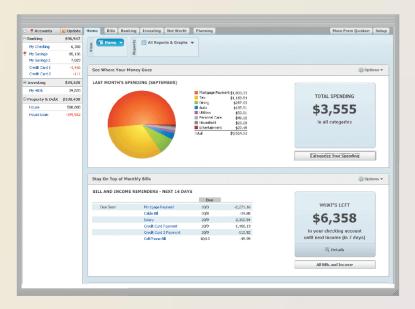
- A software suite is a collection of individual programs available together as a unit
- Project management software is an application that allows a user to plan, schedule, track, and analyze the events, resources, and costs of a project



 Accounting software is an application that helps businesses of all sizes record and report their financial transactions



 Personal finance software is a simplified accounting application that helps home users and small/home office users balance their checkbooks, pay bills, track personal income and expenses, verify account balances, transfer funds, track investments, and evaluate financial plans

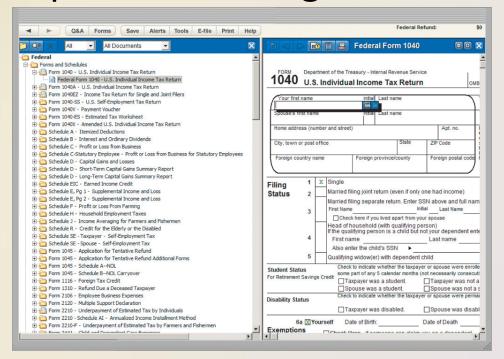


 Legal software is an application that assists in the preparation of legal documents and provides legal information to individuals, families, and small

businesses

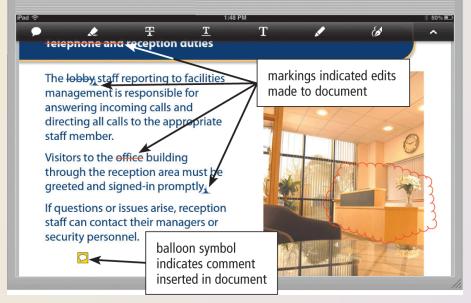


 Tax preparation software is an application that can guide individuals, families, or small businesses through the process of filing federal taxes



 Document management software is an application that provides a means for sharing, distributing, and searching through documents by converting them into a format that can be viewed

by any user



 A variety of desktop, mobile, and web apps provide a service intended to make business or personal tasks easier to accomplish

Reference applications

Travel applications

Retail applications

 A large organization, commonly referred to as an enterprise, requires special computing solutions because of its size and geographic distribution





Computer-aided design (CAD) software



Desktop publishing software



Paint/Image editing software



Photo editing software



Clip Art / Image Gallery



Video and audio editing software

- Multimedia authoring software allows users to combine text, graphics, audio, video, and animation in an interactive application
- Website authoring software helps users of all skill levels create webpages that include graphics, video, audio, animation, and special effects with interactive content



- A media player is a program that allows you to view images and animations, listen to audio, and watch video files on your computer or mobile device
- Disc burning software
 writes text, graphics,
 audio, and video files on a
 recordable or rewritable
 disc



Personal Interest Applications

Lifestyle applications

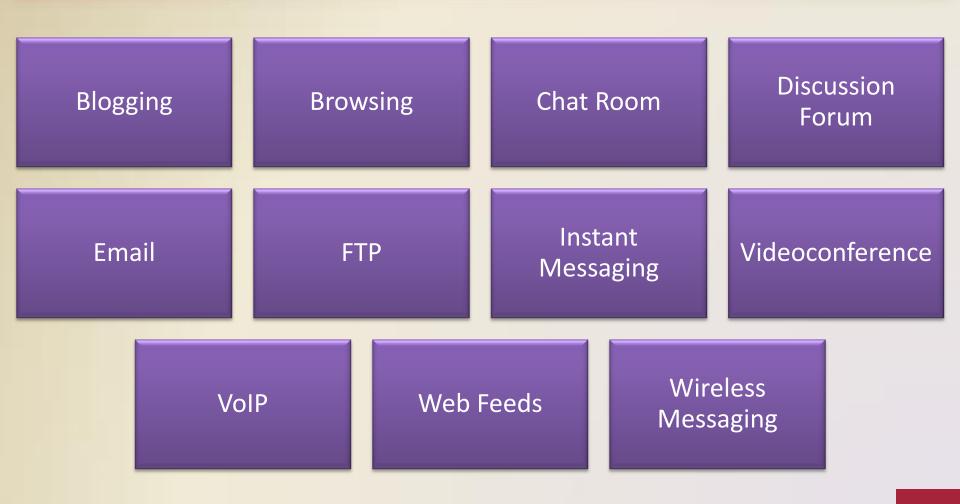
Medical applications

Entertainment applications

Convenience applications

Education applications

Communications Applications

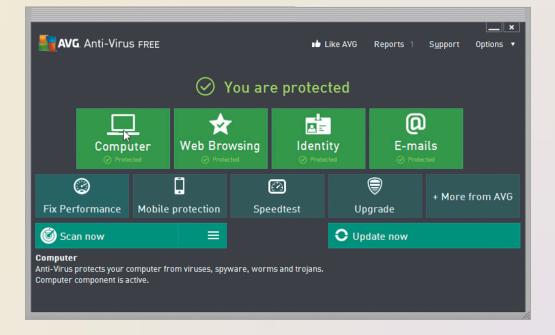


 A personal firewall is a security tool that detects and protects a personal computer and its data from unauthorized intrusions



 An antivirus program protects a computer against viruses by identifying and removing any computer viruses found in memory, on storage media, or on

incoming files



- Spyware is a program placed on a computer or mobile device without the user's knowledge that secretly collects information about the user and then communicates the information it collects to some outside source while the user is online
- Adware is a program that displays an online advertisement in a banner or pop-up window on webpages, email messages, or other Internet services

A spyware remover is a program that detects and deletes spyware and similar programs

An adware remover is a program that detects and deletes adware

Internet filters

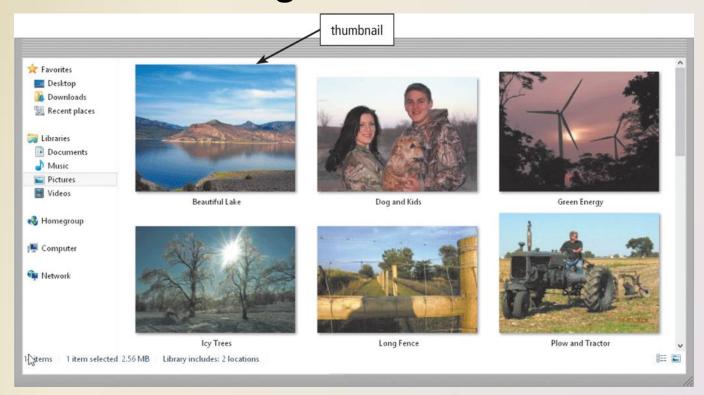
Anti-spam programs

Web filters

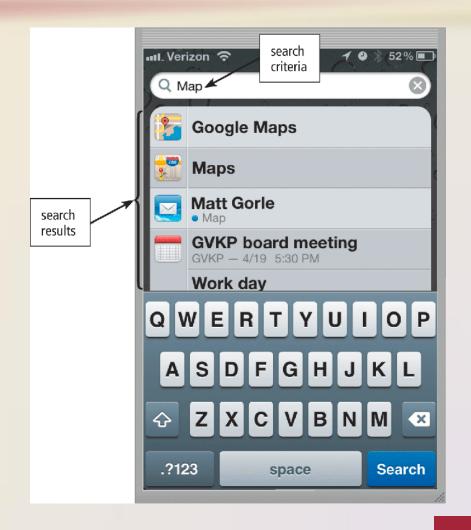
Phishing filters

Pop-up blockers

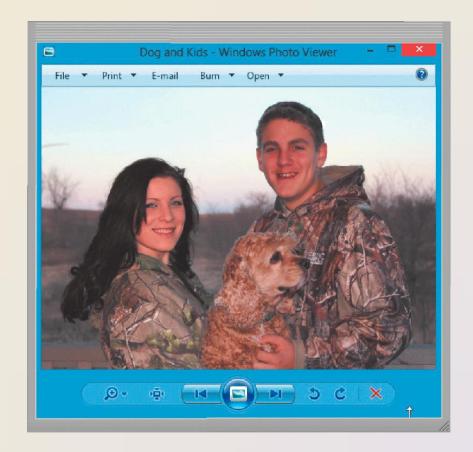
 A file manager is a tool that performs functions related to file management



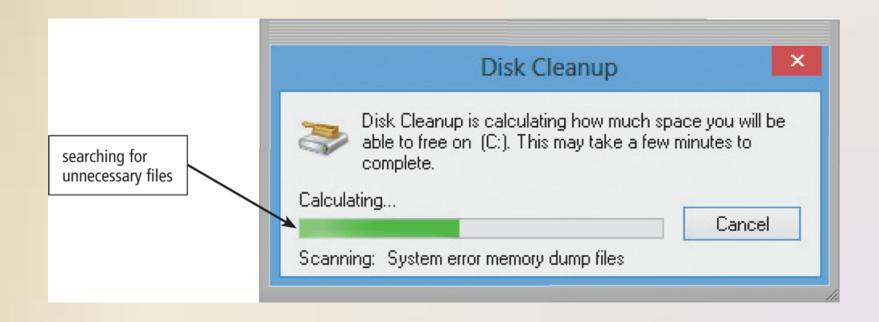
 A search tool is a program, usually included with an operating system, that attempts to locate a file on your computer or mobile device based on criteria you specify



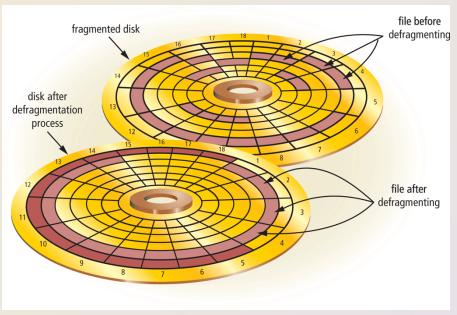
- An image viewer is a tool that allows users to display, copy, and print the contents of a graphics file, such as a photo
- An uninstaller is a tool that removes a program, as well as any associated entries in the system files



 A disk cleanup tool searches for and removes unnecessary files



- A disk defragmenter is a tool that reorganizes the files and unused space on a computer's hard disk so that the operating system accesses data more quickly and programs run faster
 - Defragmenting

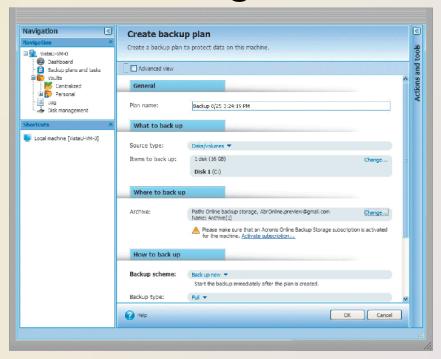


A screen saver is a tool that causes a display device's screen to show a moving image or blank screen if no keyboard or mouse activity occurs for a specified time

A file compression tool shrinks the size of a file(s)

A **PC** maintenance tool is a program that identifies and fixes operating system problems, detects and repairs disk problems, and includes the capability of improving a computer's performance

 A backup tool allows users to copy, or back up, selected files or the contents of an entire storage medium to another storage location



Summary

Programs and apps available for computers and mobile devices Role of the operating system and the various ways software is distributed

Features of a variety of applications

Communications applications

Security tools and file and disk management tools

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Chapter 4

Programs and Apps

Chapter 4 Complete

