

Basic Application Software



Chapter 3



Learning Outcomes

- Identify general-purpose applications
- Describe word processors, spreadsheets, presentation programs, and database management systems.
- Identify specialized applications.
- Describe graphics programs, web authoring programs, and other specialized professional applications.
- Describe mobile apps and app stores.
- Identify software suites.
- Describe office suites, cloud suites, specialized suites, and utility suites.



Introduction

- Not long ago, trained specialists were required to perform many of the operations you can now do with a personal computer.
- Competent end users need to understand the capabilities of basic application software including:
 - Word processors
 - Spreadsheets
 - Presentation programs
 - Database management systems







Application Software

- Application software
 - End user software
 - Accomplish a variety of tasks
- Three categories
 - 1. General Purpose Applications
 - 2. Specialized Applications
 - 3. Mobile Apps

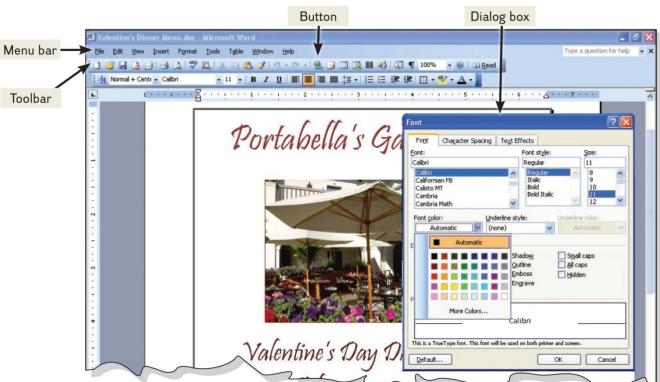




User Interface

 Graphical User Interface (GUI) consists of:

- Icons
- Pointer
- Windows
- Menus
- Toolbars
 - Buttons
- Dialog Boxes



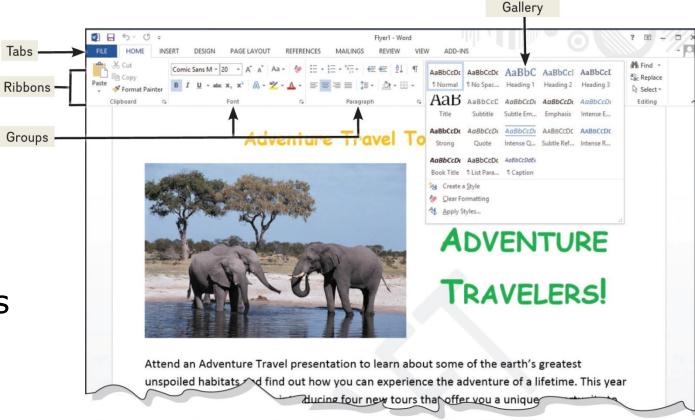
Copyright © McGraw-Hill Education. Permission required for reproduction or display.



Common Features in Microsoft

- Ribbon GUI
 - Ribbons
 - Tabs
 - Groups
 - Contextual tabs
 - Galleries
- Spell checkers
- Alignment
- Font and Font Sizes
- Tables
- Reports

Copyright © McGraw-Hill Education. Permission required for reproduction or display.



Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation



General Purpose Applications

- General purpose applications include:
 - Word processor programs
 - Spreadsheet programs
 - Presentation graphics programs
 - Database management systems



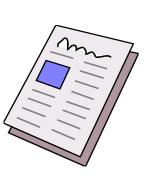
Word Processor Programs

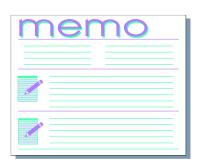
- Create text-based documents
 - Memos, letters, and faxes
 - Newsletters, manuals, and brochures



- Microsoft Word
 - Most popular
- Apple Pages
- Google Docs
- Corel WordPerfect
- OpenOffice Writer









Creating a Flyer

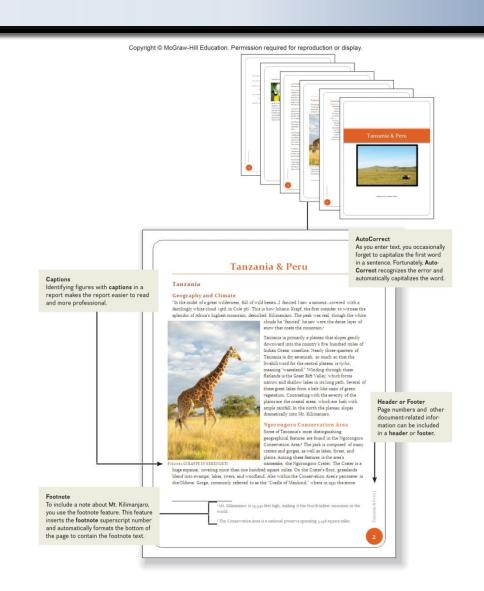
- Flyer Features
 - Spell Checker
 - Center-alignment
 - Grammar Checker
 - Fonts
 - Font Sizes
 - Word Wrap
 - Character Effects





Creating a Report

- Report Features
 - AutoCorrect
 - Footnote
 - Header or Footer
 - Captions and Cross References
 - Tables





Spreadsheet Programs

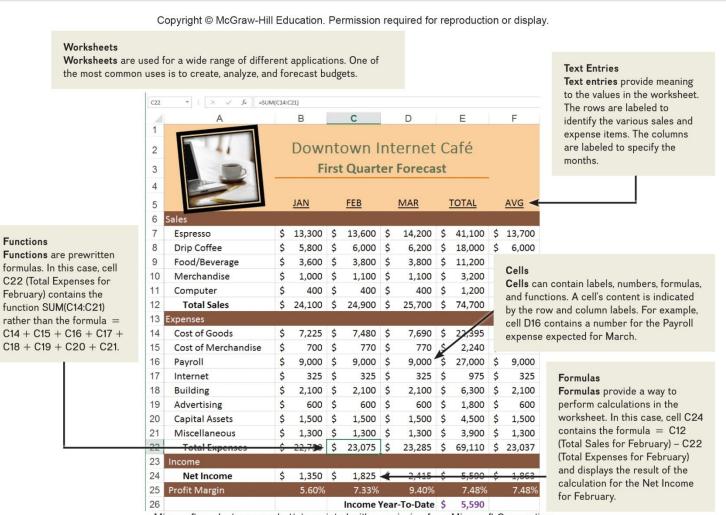
- Organize, analyze, and graph numeric data
- Spreadsheet programs
 - Microsoft Excel
 - Most widely used
 - Apple Numbers
 - OpenOffice Calc
 - Corel Quattro Pro
 - Google Sheets





Creating a Sales Forecast

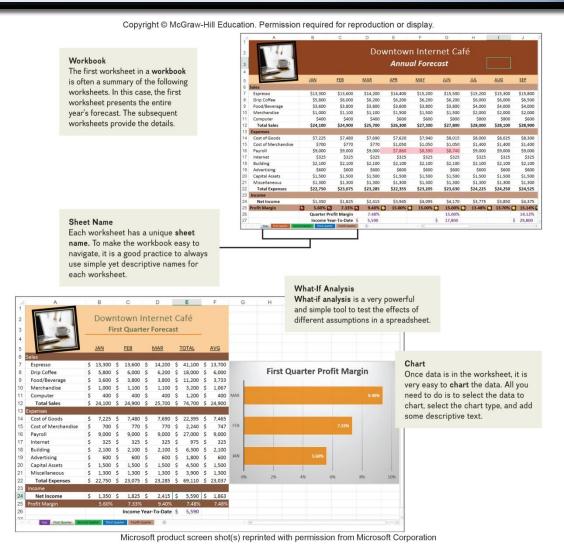
- Features
 - Worksheets
 - Text entries
 - Functions
 - Cells
 - Formulas





Analyzing Your Data

- Analysis Features
 - Workbook and worksheets
 - What-if Analysis





Presentation Graphics Programs

- Combine a variety of visual objects to create visually interesting presentations
- Presentation programs
 - Microsoft PowerPoint
 - OpenOffice Impress
 - Apple Keynote
 - Google Slides
 - Corel Presentations



Creating a Presentation

- Presentation Features
 - Document Theme
 - Animation
 - Templates

Copyright @ McGraw-Hill Education. Permission required for reproduction or display.

Document Theme

To make your presentation more professional and eyecatching, you select a document theme, built-in sets of colors, fonts, and effects that can be quickly applied to your entire presentation.



- Who Are Animal Angels? ▶ Provides veterinary care Finds loving permanent homes

 - Believe you can retrain animals to be I

Animation

To provide additional emphasis to items or show the information on a slide in phases, you add animation to text and objects. Finally, you use slide transition effects to animate the transition from one slide to the next.



Templates

Templates provide an excellent way

to quickly create a presentation by providing predesigned styles and layouts as well as suggested

content based on the type of

template you select.



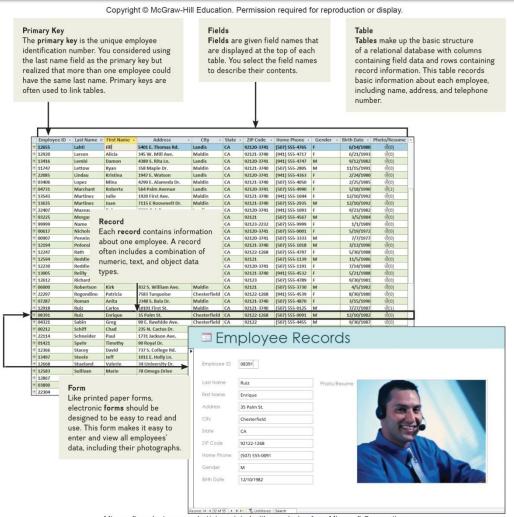
Database Management Systems (DBMS)

- A collection of related data
- Electronic equivalent of a file cabinet
- Two most widely used systems
 - Microsoft Access
 - OpenOffice Base
 - Apple FileMaker
 - Google Obvibase



Creating a Database

- First steps is to plan
- Database Features
 - Primary Key
 - Fields
 - Record
 - Table
 - Form





Specialized Applications

- Programs that more narrowly focused on specific disciplines and occupations
- Includes:
 - Graphics Programs
 - Web Authoring Programs



Graphics Programs

- Widely used in graphic arts
- Types of graphics programs are:
 - Desktop Publishing Programs
 - Image Editing Programs
 - Illustration Programs
 - Image Galleries



Desktop Publishing Programs

- Also known as Page Layout Programs
- Mix text and graphics to create brochures, newsletters, newspapers and textbooks
- Popular programs:
 - Adobe InDesign
 - Microsoft Publisher
 - QuarkXPress



Image Editors

- Also know as Photo Editors
- Editing or modifying digital photographs
- Photographs consist of thousands of pixels that form images knows as bitmaps
- Popular image editors
 - Adobe Photoshop
 - Corel PaintShop Pro
 - GIMP (GNU Manipulation Program)
 - Windows Live Photo Gallery

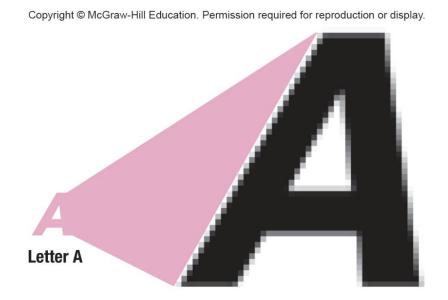




Illustration Programs

- Drawing programs
- Create and edit vector images
 - Vector illustrations
- Geometric shapes or objects
- Created by connecting lines and curves
- Defined by mathematical equations
- Popular Illustration Programs
 - Adobe Illustrator
 - CorelDraw
 - Inkscape



Video Editors

 Edit videos to enhance quality and appearance

 Can now use your smartphone to edit videos

Well-known programs

Windows Live Movie Maker

- Apple iMovie
- YouTube Video Editor





Video Game Design Software

- Video Game Design Software helps
 - Organize thoughts
 - Guide user through game design process
 - Character development
 - Environmental design
 - Free / inexpensive video game design software
 - YoYo GameMaker
 - Stencyl
 - Unity





Web Authoring Programs

- Web authoring is the creation of a site
 - Design
 - Document file displaying website's content
- Blog
 - Online diary/commentaries
- Web Authoring Programs
 - Typically used to create commercial sites
 - Web page editors or HTML editors
 - WYSIWYG (what you see is what you get)
- Most widely used programs
 - Adobe Dreamweaver
 - Microsoft Expression Web



Mobile Apps

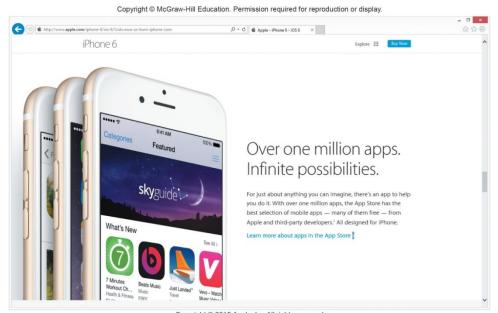
- Mobile Applications or Mobile Apps
 - Add-on programs for a variety of mobile devices
 - Smartphones or tablets
- Apps
 - Breadth and scope are everexpanding
 - 500,000 just for iPhone
 - Music, videos, social networking, shopping, games





App Stores

- App Stores
 - Provides access to mobile apps for downloads
 - Apple's App Store
 - Apple Devices
 - www.apple.com/itunes/charts
 - Google Play
 - Andriod Devices
 - Play.google.com/store/apps
 - Appszoom
 - Andriod and Apple Devices
 - www.appszoom.com



Copyright © 2015 Apple, Inc.All rights reserved



Software Suites

- Collection of separate application programs
 - Bundled together sold as group
- Four types of suites
 - 1. Office suites or office software suite / productivity suites
 - Microsoft Office
 - Apple iWork, OpenOffice
 - 2. Cloud suites or online office suites
 - Google Docs (Making IT Work for You), Zoho, Microsoft Office 365





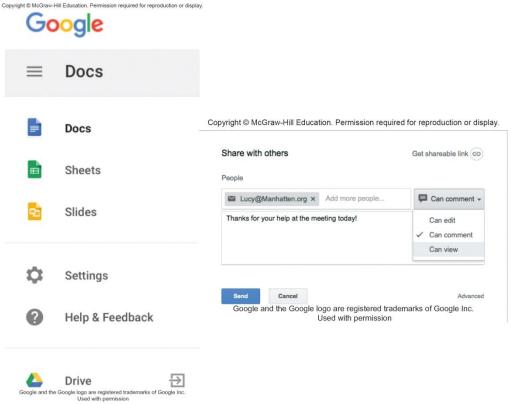
Suites continued

- Specialized suites
 - Focus on specific applications
 - Corel Draw Graphics Suite X6
 - Moneyfree Software TOTAL Planning Suite
- Utility suites
 - Designed to make computing easier and safer
 - Norton Systems Works
 - Norton Internet Security suite



Making IT Work for You - Google Docs

- Tool to create and collaborate with others
- Creating /sharing documents
 - Free and easy to use
 - Free Google account
 - Free online storage





Careers In IT

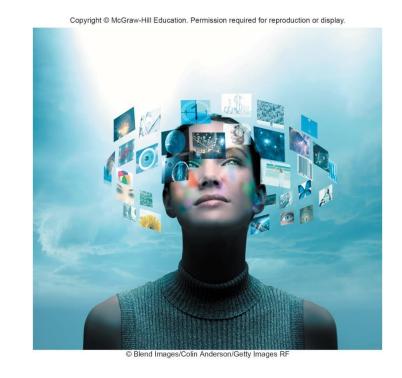
- Software Engineers
 - Analyze users' needs and create application software
- Attributes
 - Good communication and analytical skills
 - Programming experience
 - Detail oriented
 - Web application experience
 - Analytical skills
- Earning potential of \$55,000 to \$71,000 annually





A Look to the Future

- Next-Generation User Interfaces
 - Doubtful a single interface will serve everyone
 - Must be comfortable to use
 - Touch / interactive screen
 - Voice recognition
 - Gestures
 - Augmented Reality





Open-Ended Questions (Page 1 of 2)

1. Explain the difference between general-purpose and specialized applications. Also discuss the common features of application programs, including those with traditional and ribbon graphical user interfaces.

2. Discuss general-purpose applications including word processors, spreadsheets, database management systems, and presentation graphics.



Open-Ended Questions (Page 2 of 2)

- 3. Discuss specialized applications, including graphics programs, video game design software, web authoring programs, and other professional specialized applications
- 4. Describe mobile apps, including popular apps and app stores.
- 5. Describe software suites, including office suites, cloud suites, specialized suites, and utility suites.