



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

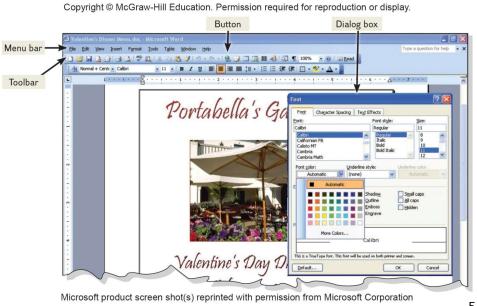
- Application software
 - End user software
 - Accomplish a variety of tasks
- Three categories
 - 1. General Purpose Applications
 - 2. Specialized Applications
 - 3. Mobile Apps



User Interface

Graphical User Interface (GUI) consists of:

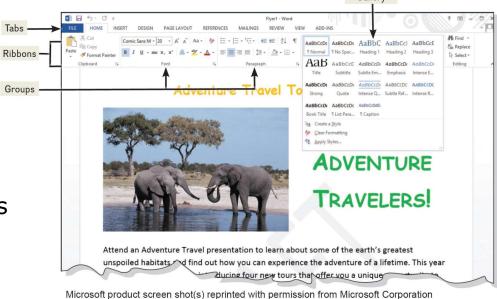
- Icons
- Pointer
- Windows
- Menus
- Toolbars
 - Buttons
- Dialog Boxes





Common Features in Microsoft

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

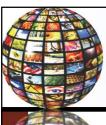


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General Purpose Applications

- 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

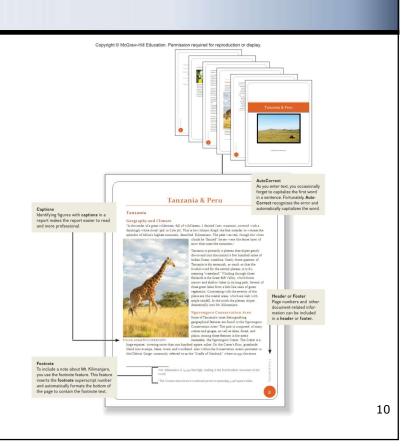
- Flyer Features
 - Spell Checker
 - Center-alignment
 - Grammar Checker
 - Fonts
 - Font Sizes
 - Word Wrap
 - Character Effects

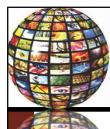




Creating a Report

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





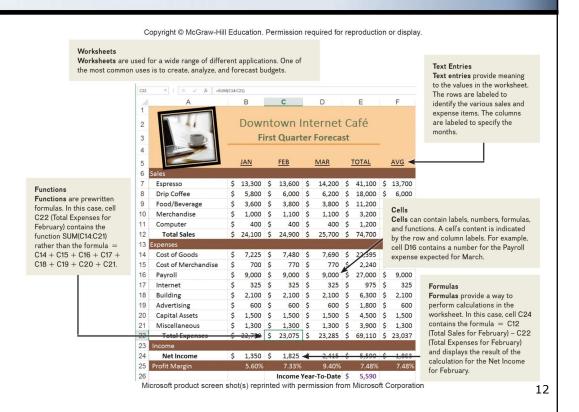
Spreadsheet Programs

- 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

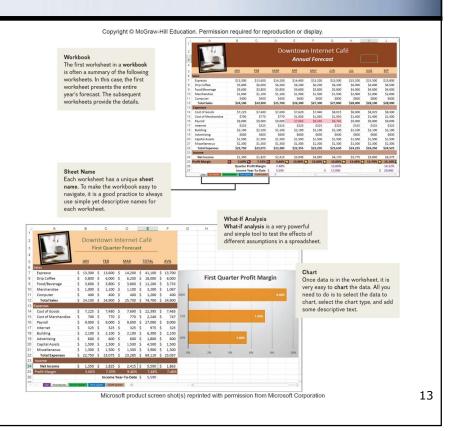
- Features
 - Worksheets
 - Text entries
 - Functions
 - Cells
 - Formulas





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

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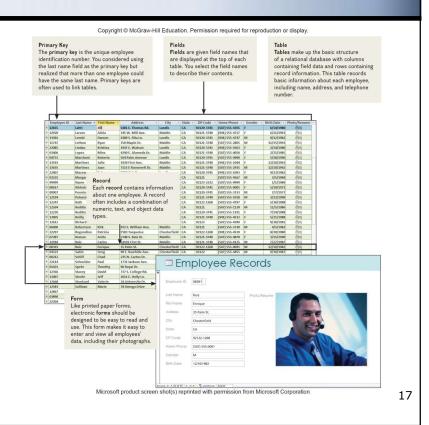
Database Management Systems (DBMS)

- 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

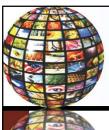
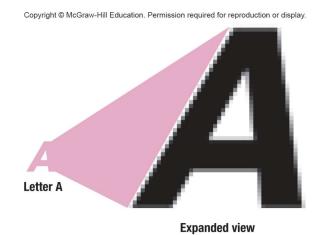


Image Editors

- 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



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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



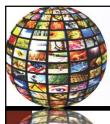
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Video Game Design Software

- 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





Software Suites

- Collection of separate application programs
 - Bundled together sold as group
- Four types of suites
 - 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



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Suites continued

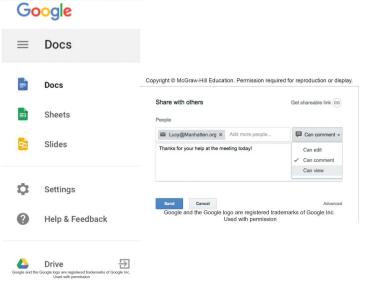
- Specialized suites
 - Focus on specific applications
 - Corel Draw Graphics Suite X6
 - Moneyfree Software TOTAL Planning Suite
- Utility suites
 - Designed to make computing easier and safer
 - Norton Systems Works
 - Norton Internet Security suite



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.