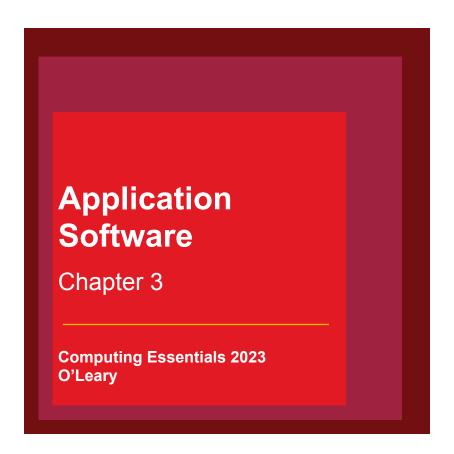


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Learning Objectives

- 1. Identify general-purpose applications.
- 2. Describe word processors, spreadsheets, presentation programs, and database management systems.
- 3. Describe specialized applications, such as graphics, web authoring, and video game development programs.
- 4. Describe mobile apps and app stores.
- 5. Identify software suites.
- 6. Describe office suites, cloud suites, specialized suites, and utility suites.

Introduction

Word processors

Spreadsheets

Presentation programs

Database management systems

Application Software Categories

Two kinds of software:

- system software
- application software

Application software

Accomplish a variety of tasks

Three categories

- Mobile Apps
- General Purpose Applications
- Specialized Applications

User Interface

Icons

Pointer

Windows

Menus

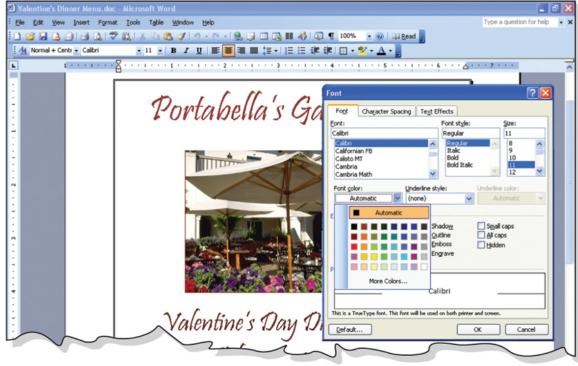
Menu bar

Toolbars

Buttons

Dialog Boxes

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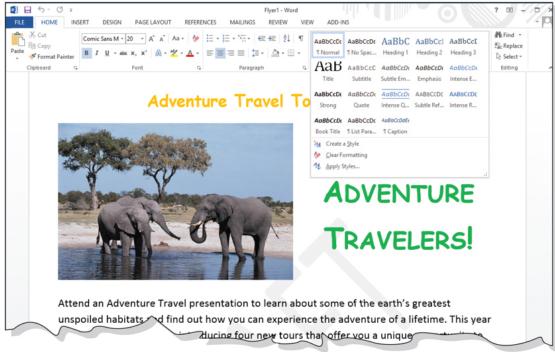
Microsoft Corporation

Common Features in Microsoft

Ribbon GUI

- Ribbons
- Tabs
 - Groups
 - Contextual tabs
- Galleries Spell checkers Alignment Font and Font Sizes

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Microsoft Corporation; Comstock/Getty Images

Mobile Apps

Mobile applications, often referred to simply as Apps

- Programs for a variety of mobile devices
- Examples include: address books, lists, alarms

Apps can be used on both mobile and other devices

- Over 3.5 million aps on Google Play alone
- Music, video, social networking, shopping, games

Privacy

- Often constantly recording location, photos taken, and businesses visited
- Concerns regarding unintended use, such as employers using data recorded by apps when evaluating job candidates

General Purpose Applications

Word processors

Spreadsheets

Presentation programs

Database management systems

Word Processor Programs

Create text-based documents

- Memos, letters, and reports
- Newsletters, manuals, and brochures

Word processing programs

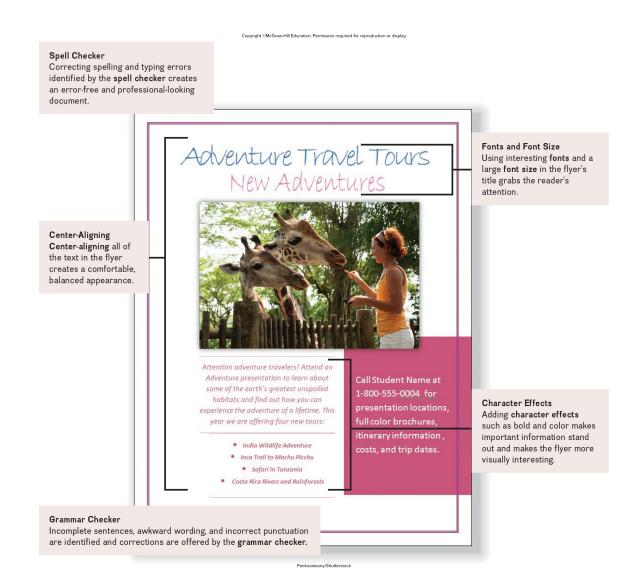
- Microsoft Word
- Apple Pages
- Google Docs

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Creating a Flyer

Flyer Features

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



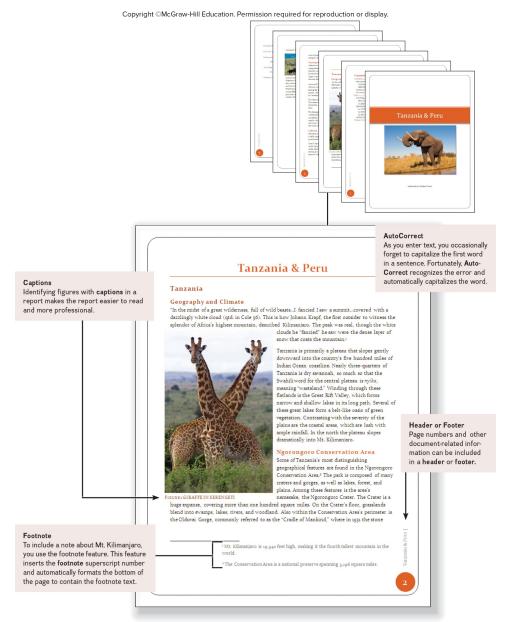
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Creating a Report

Report Features

- AutoCorrect
- Footnote
- Header or Footer
- Captions and Cross References



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Presentation Graphics Programs

Combine a variety of visual objects to create visually interesting presentations

Presentation programs

- Microsoft PowerPoint
- OpenOffice Impress
- Apple Keynote
- Google Slides
- Prezi

Creating a Presentation

Features

- **Document Theme**
- **Animation**
- **Templates**

Document Theme

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

Animation

from one slide to the next.



Microsoft Corporation; Zoom Pet Photography/Image Source/Getty Images

Spreadsheet Programs

Organize, analyze, and graph numeric data

Budgets and Financial Reports

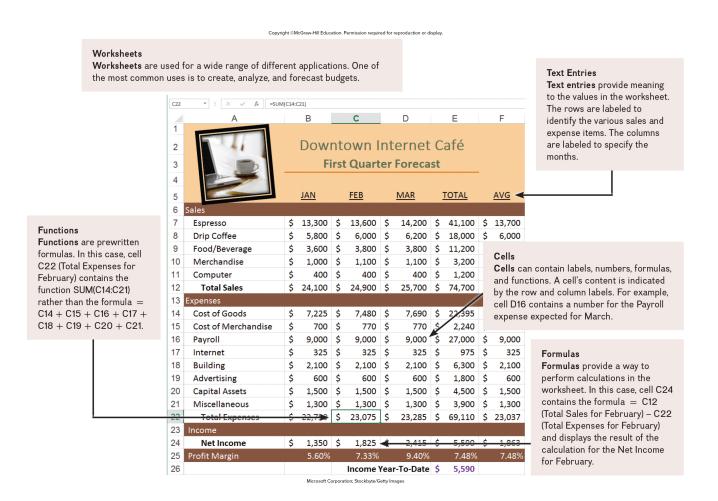
Spreadsheet programs

- Microsoft Excel
- Apple Numbers
- Google Sheets

Creating a Sales Forecast

Features

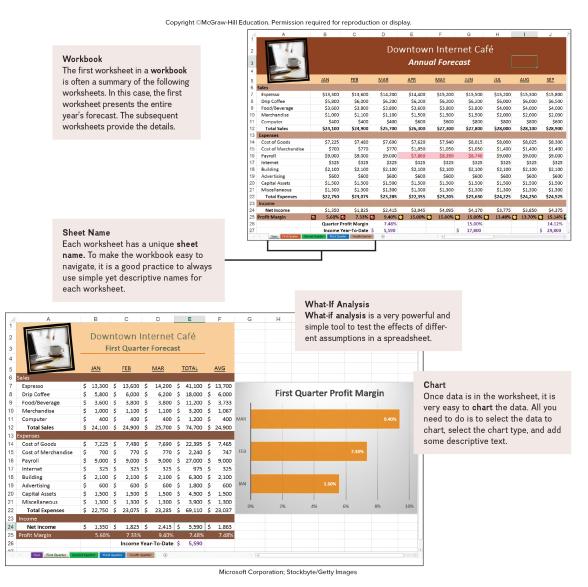
- Worksheets
- Text entries
- Cells
- Formulas
- Functions



Analyzing Your Data

Features

- Workbook and worksheets
- What-if Analysis



Database Management Systems (DBMS)

A collection of related data

Electronic equivalent of a file cabinet

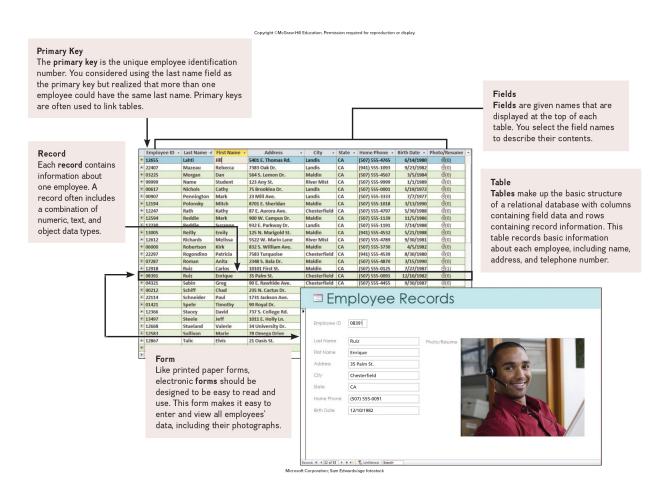
Three most widely used systems

- Microsoft Access
- Apple FileMaker
- Oracle Database Express Edition

Creating a Database

Features

- Primary Key
- Fields
- Tables
- Forms
- Records



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:

- Video editors
- Image or photo editors
- Illustration or drawing programs
- Desktop publishing programs

Video Game Design Software

Organize thoughts

Guide user through game design process

- Character development
- Environmental design

Video game design software ranges from free to expensive for professional game designers

- Unreal Game Engine
- Unity development kit
- GameMaker Studio 2



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Cryengine

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Web Authoring Programs

Web authoring is the creation of a website

- 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
- Froala 4.0

App Stores

Provides access to mobile apps for downloads

- Apple's App Store
 - Apple Devices
 - https://www.apple.com/app-store/
- Google Play
 - Android Devices
 - https://play.google.com/store/apps



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Software Suites

Collection of separate application programs

Bundled together – made available as group

Four types of suites

- Office suites or office software suite / productivity suites
 - Microsoft Office
 - Apple iWork,
- Cloud suites or online office suites
 - Google Workspace
 - Microsoft 365
 - Apple iWorks

Software Suites, continued

Specialized suites

- Focus on specific applications
 - Adobe Creative Cloud
 - Magix's Sound Forge Pro 15
 - Moneytree Software Total Planning Suite

Utility suites

- Designed to make computing easier and safer
 - Iolo's System Mechanic Ultimate Defence
 - AVG TuneUp

Careers in IT

Software Engineers

Analyze users' needs and create application software

Attributes

- Bachelor's or specialized advanced associate's degree in computer science or information systems
- Extensive knowledge of computers and technology
- Good communication and analytical skills
- Web application experience
- Analytical skills

Earning potential of \$63,000 to \$148,000 annually

Making IT Work for You – Cloud Office Suites

Things to consider when choosing a cloud office suite:

- What does your team use now?
- How experienced are your teammates?
- Storage options
- Prices



A Look to the Future

VR and AR Applications in the Workplace

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Open Ended Questions

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



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