



# **Learning Objectives**

- 1. Identify general-purpose applications.
- 2. Describe word processors, spreadsheets, presentation programs, and database management systems.
- 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.

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### **User Interface**

**Icons** 

**Pointer** 

Windows

Menus

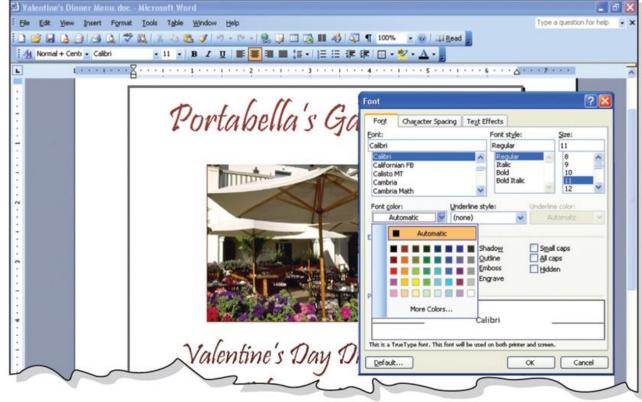
Menu bar.

#### **Toolbars**

Buttons.

**Dialog Boxes** 

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### **Common Features in Microsoft**

#### Ribbon GUI

Ribbons.

Tabs.

- Groups.
- Contextual tabs.

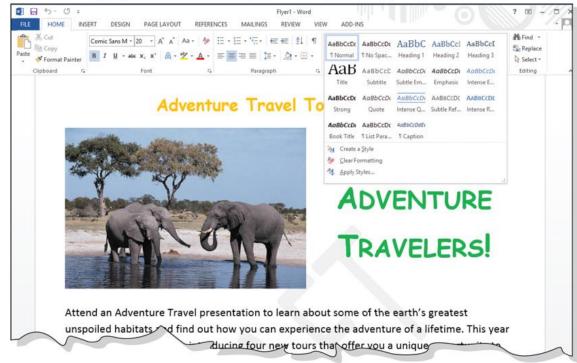
Galleries.

Spell checkers

Alignment

Font and Font Sizes

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### **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.

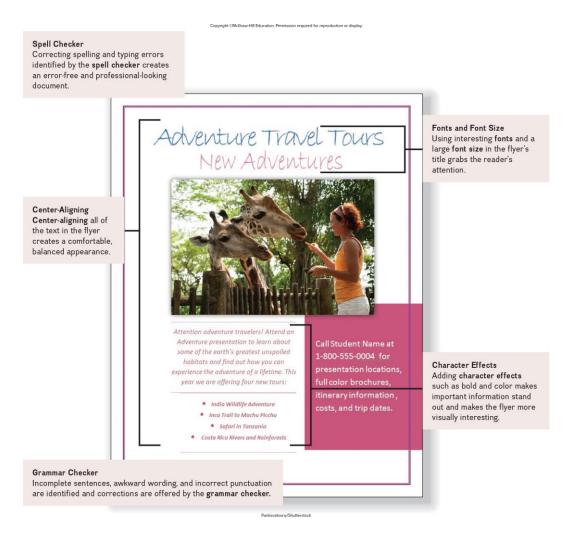
### Word processing programs

- Microsoft Word.
- Apple Pages.
- Google Docs.

# **Creating a Flyer**

### Flyer Features

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

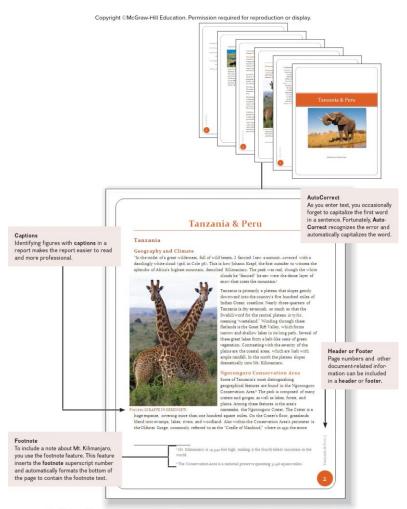


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# **Creating a Report**

### 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.



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# **Spreadsheet Programs**

Organize, analyze, and graph numeric data

Budgets and Financial Reports.

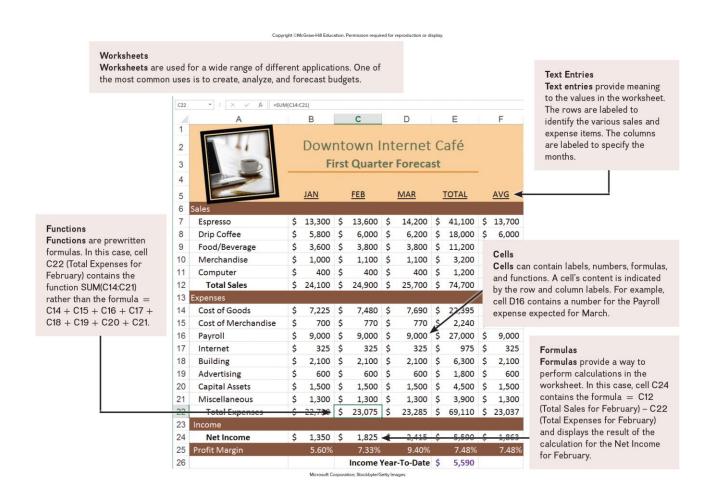
### Spreadsheet programs

- Microsoft Excel.
- Apple Numbers.
- Google Sheets.

# **Creating a Sales Forecast**

#### **Features**

- Worksheets.
- Text entries.
- Cells.
- Formulas.
- Functions.

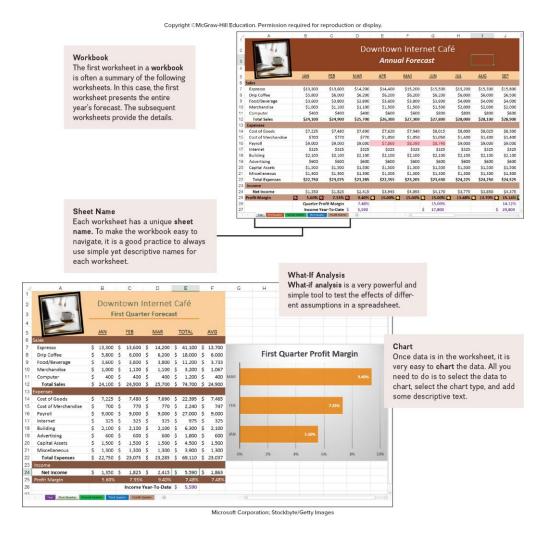


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# **Analyzing Your Data**

#### **Features**

- Workbook and worksheets.
- What-if Analysis.



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### **Database Management Systems (DBMS)**

A collection of related data Electronic equivalent of a file cabinet

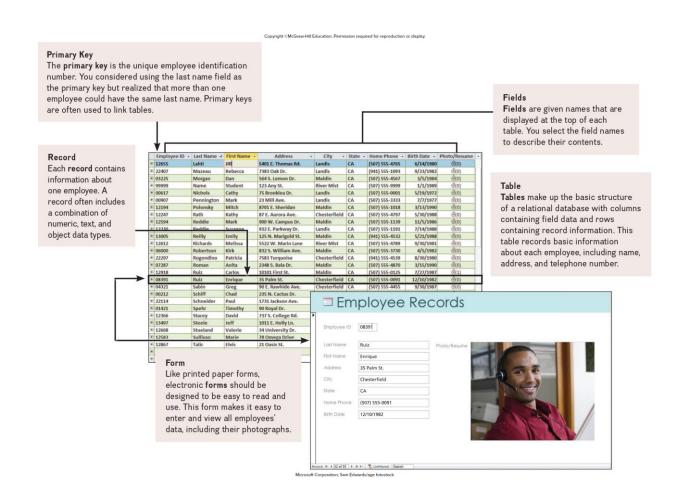
Three most widely used systems

- Microsoft Access.
- Apple FileMaker.
- Oracle Database Express Edition.

# **Creating a Database**

#### **Features**

- Primary Key.
- Fields.
- Tables.
- Forms.
- Records.



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### **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. (Movavi Video Editor Plus for android, Apple imovie for apple devices, Adobe Primier for Professional tool on labtop and desktop)
- Image or photo editors. (Snapseed for cell phone and tablets, Microsoft photo for labtop and desktop, Adobe Photoshop for Professional)
- Illustration or drawing programs. (Procreate, Adobe Illustrator Draw, and Autodesk Sketchbook.)
- Desktop publishing programs. (Adobe InDesign, Microsoft Publisher, and QuarkXPress.)

### 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

# **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. (Recording, audio editing, and mastering suites)
- Moneytree Software Total Planning Suite. (Financial planning suites)

#### 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

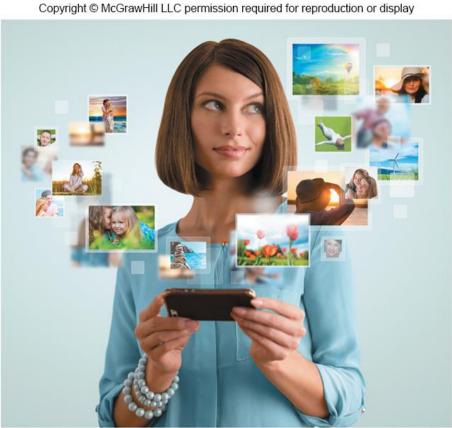
Things to consider when choosing a cloud office suite:

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

Choose a suite and put it to work for you!

### 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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