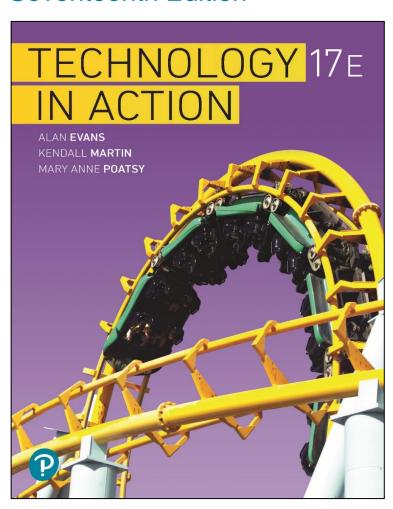
# **Technology in Action**

#### Seventeenth Edition



### Chapter 4

Application Software:
Programs That Let You
Work and Play



# Learning Objectives (1 of 3)

- **4.1** Compare application software and system software.
- **4.2** Explain the differences between commercial software and open source software and describe models for software distribution.
- **4.3** Explain the different options for purchasing software.
- **4.4** Describe how to install and uninstall software.
- **4.5** Explain the considerations around the decision to upgrade your software.



# Learning Objectives (2 of 3)

- 4.6 Explain how software licenses function.
- **4.7** Categorize the types of application software used to enhance productivity and describe their uses and features.
- **4.8** Summarize the types of software that large and small businesses use.
- **4.9** Describe the uses and features of digital multimedia software.



# Learning Objectives (3 of 3)

- **4.10** Describe the uses and features of digital audio software.
- **4.11** Describe the features of app creation software.
- **4.12** Categorize educational and reference software and explain their features.



### **Software Basics**

**Application vs System Software (Objective 4.1)** 

- Software—set of instructions that tells a computer what to do
- Two basic types of software
  - Application software
  - System software



### **Software Basics**

**Distributing Software (Objective 4.2)** 

- Ways software is created
  - Proprietary (commercial)
  - Open source (free)
- Ways software is distributed
  - Local installation
  - Software as a Service (SaaS)
  - Subscription



**Purchasing Software (Objective 4.3)** 

- Downloaded from the Internet
- Student discounts
- Freeware
- Beta version



**Installing and Uninstalling Software (Objective 4.4)** 

- System requirements
- Restore point
- Full installation
- Custom installation
- Recovering from a computer crash
- Uninstalling software
- Recovery drive



**Upgrading Software (Objective 4.5)** 

- Upgrades/updates not needed for subscriptions or SaaS
- Automatic updates
- Is it cost effective?
- Between upgrades are software updates or patches



**Software Licenses (Objective 4.6)** 

- End User License Agreement (EULA)
- States the following:
  - Ownership
  - Copies allowed
  - # of installations allowed
  - Warranties
- Copyleft





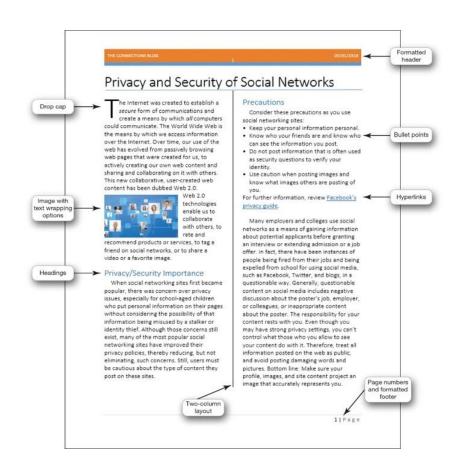
## **Productivity and Business Software** (1 of 9)

- Productivity software—perform various tasks required at home, school, and business
  - Proprietary—Microsoft Office and Apple iWork
  - Open source—LibreOffice
  - Web-based—Office 365 Online, Google Suite, Zoho, and ThinkFree



## **Productivity and Business Software** (2 of 9)

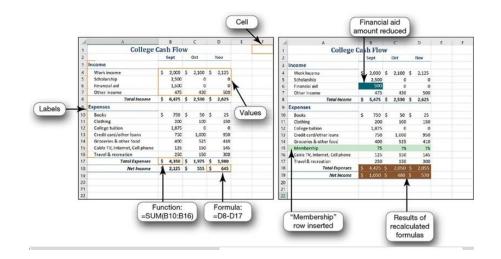
- Word processing—create and edit documents
  - Research papers
  - Class notes
  - Résumés
- Program examples
  - Word
  - Writer





## **Productivity and Business Software** (3 of 9)

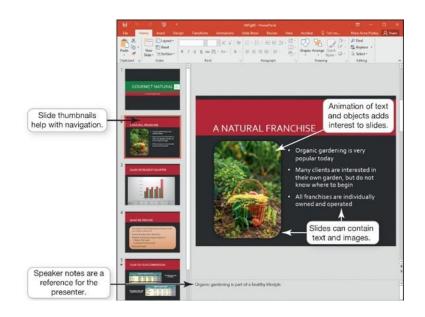
- Spreadsheet—performs calculations and numerical analyses
- Data types
  - Text
  - Values and dates
  - Formulas
  - Functions
- Examples
  - Excel
  - Calc





## **Productivity and Business Software** (4 of 9)

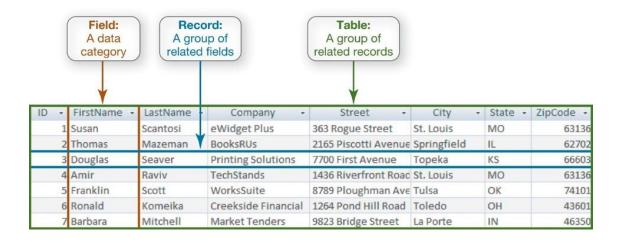
- Presentation software
  - Tips for designing good presentations
    - Use images
    - Be careful with color
    - Use bullets for key points
    - Consider font size and style
    - Minimize animation and background audio





## **Productivity and Business Software** (5 of 9)

- Database software—stores and organizes data
  - Organization
    - Fields
    - Records
    - Tables





## **Productivity and Business Software** (6 of 9)

**Productivity Software (Objective 4.7)** 

- Note-taking software
  - OneNote
  - Evernote

#### Evernote (evernote.com)

- Web-based
- Notes can be shared for easy collaboration
- · Syncs notes between all devices

#### AudioNote (luminantsoftware.com)

- · Synchronized note taking and audio recording
- · Allows text or handwritten notes
- · Highlights notes during playback

#### Simplenote (simplenote.com)

- · Web-based, open source
- Notes organized by tags
- Mobile apps available

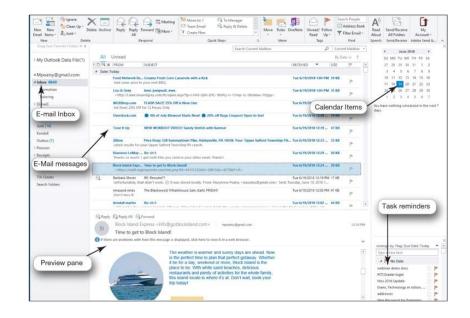
#### Notability (gingerlabs.com)

- PDF annotations
- · Advanced word processing
- · Linked audio recordings to notes
- · Auto-sync notes between devices



## **Productivity and Business Software** (7 of 9)

- Personal information manager software
  - Manages e-mail, contacts, calendars, and tasks
  - Outlook
  - Web-based PIMs
    - Yahoo!
    - Google
  - Other options
    - Toodledo
    - OmniFocus





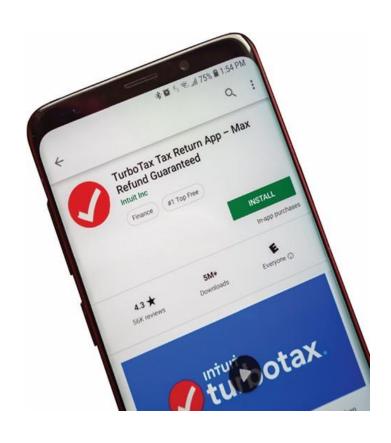
## **Productivity and Business Software** (8 of 9)

- Project and collaborative software
  - Software used when working remotely with team members
    - Microsoft Teams
    - Zoom
    - Slack
    - Trello



## **Productivity and Business Software** (9 of 9)

- Personal financial software
  - Electronic checkbook registers
  - Automatic bill payment tools
  - Tax preparation software
    - Intuit TurboTax
    - H&R Block Tax





## Productivity and Business Software (1 of 2)

**Business Software (Objective 4.8)** 

- Small business software
  - Accounting software
    - Track accounts receivable and payable
    - Inventory management, payroll, and billing
  - Desktop publishing (DTP) software
    - Design newsletters and other publications
  - Web authoring software
    - Design web pages



## **Productivity and Business Software** (2 of 2)

**Business Software (Objective 4.8)** 

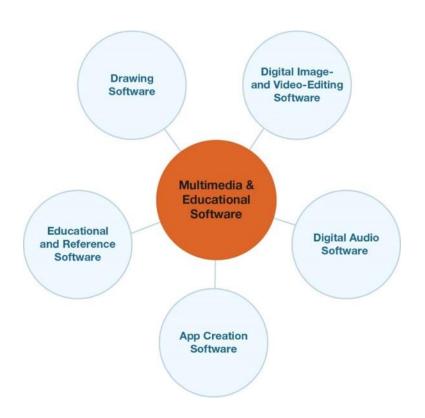
- Software for large and specialized businesses
  - Vertical market software is designed for a specific industry
  - Computer-aided design (CAD) programs create automated designs, technical drawings, and 3D model visualizations



### Multimedia and Educational Software (1 of 3)

Multimedia Software (Objective 4.9)

- Multimedia software
  - Includes digital image,
     video-editing, and
     digital audio software
  - Used to produce computer games, animations, and movies





### Multimedia and Educational Software (2 of 3)

**Multimedia Software (Objective 4.9)** 

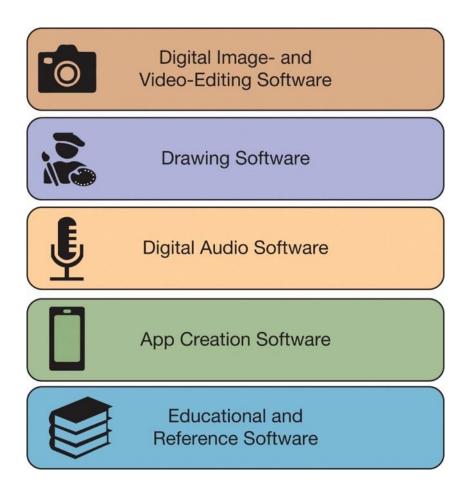
- Multimedia software
  - Image-editing software used to edit photos
  - Video-editing software used to refine videos



### Multimedia and Educational Software (3 of 3)

**Multimedia Software (Objective 4.9)** 

- Multimedia software
  - Drawing software lets you create
    - Two-dimensional, line-based drawings
    - Technical diagrams
    - Animations
  - Professional-level
    - Adobe Illustrator





### **Multimedia and Educational Software**

**Audio Software (Objective 4.10)** 

- Downloaded music files, audiobooks, or podcasts
  - Compressed: MP3, AAC, WMA
  - Uncompressed: WAV, AIFF
- Digital audio workstation software (DAWs)
- Audio-editing software



### **Multimedia and Educational Software**

**App Creation Software (Objective 4.11)** 

- App creation software—
   programming
   environments that
   produce apps that run on
   mobile devices
  - App Inventor
  - Thunkable
  - Corona
  - Unity
  - RPG Maker





### Multimedia and Educational Software

**Educational and Reference Software (Objective 4.12)** 

- Some educational and reference software examples
  - Test preparation
  - Simulation
  - Home design/improvement
  - Course management
  - Genealogy



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