



Lecture 3

Application Software

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Objectives Overview

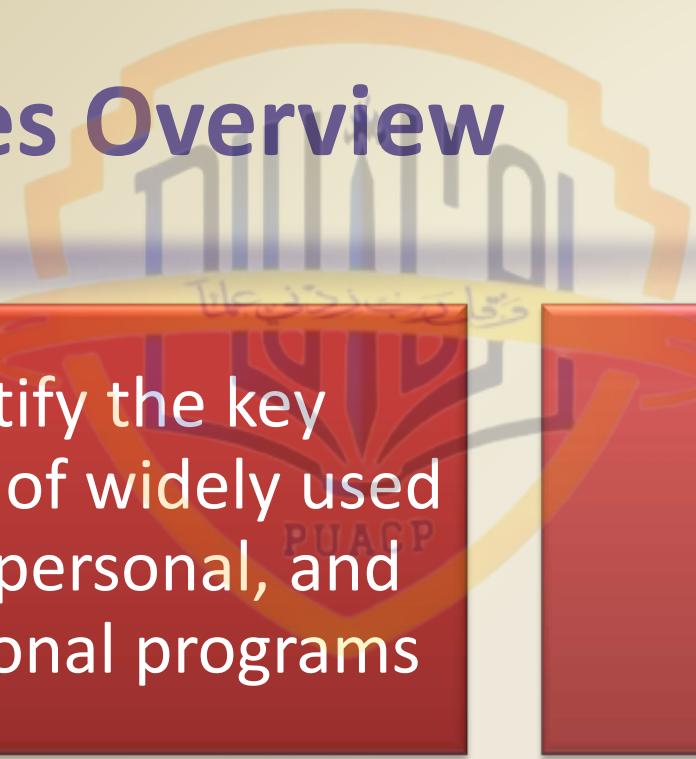
Identify the four categories of application software

Describe characteristics of a user interface

Identify the key features of widely used business programs

Identify the key features of widely used graphics and multimedia programs

Objectives Overview



Identify the key features of widely used home, personal, and educational programs

Discuss Web applications

Identify the types of application software used in communications

Describe the learning aids available for application software

Application Software

- **Application software** consists of programs designed to make users more productive and/or assist with personal tasks

To make business activities more efficient

To assist with graphics and multimedia projects

To support home, personal, and educational tasks

To facilitate communications

Application Software

Four Categories of Application Software

Business

- Word Processing
- Spreadsheet
- Database
- Presentation
- Note Taking
- Personal Information Manager (PIM)
- Business Software for Phones
- Business Software Suite
- Project Management
- Accounting
- Document Management
- Enterprise Computing



Graphics and Multimedia

- Computer-Aided Design (CAD)
- Desktop Publishing (for the Professional)
- Paint/Image Editing (for the Professional)
- Photo Editing (for the Professional)
- Video and Audio Editing (for the Professional)
- Multimedia Authoring
- Web Page Authoring



Home/Personal/Educational

- Software Suite (for Personal Use)
- Personal Finance
- Legal
- Tax Preparation
- Desktop Publishing (for Personal Use)
- Paint/Image Editing (for Personal Use)
- Photo Editing and Photo Management (for Personal Use)
- Clip Art/Image Gallery
- Video and Audio Editing (for Personal Use)
- Home Design/Landscaping
- Travel and Mapping
- Reference and Educational
- Entertainment



Communications

- | | | | | |
|------------------|------------|---------------------------|-------------|----------------------------------|
| • Web Browser | • E-Mail | • Instant Messaging | • Chat Room | • Text, Picture, Video Messaging |
| • RSS Aggregator | • Blogging | • Newsgroup/Message Board | • FTP | • VoIP |
| | | | | • Video Conferencing |

Application Software

- Available in a variety of forms:

Packaged
software

Custom
software

Web
application

Open source
software

Shareware

Freeware

Public-domain
software

Application Software

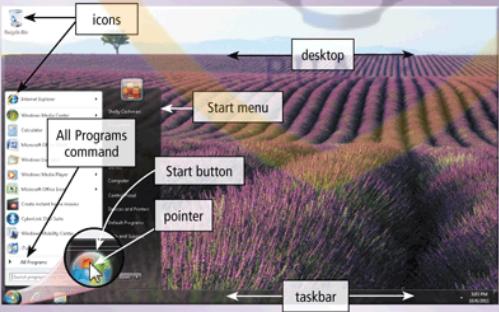
- **System software** serves as the interface between the user, the application software, and the computer's hardware
 - Utility programs



Application Software

One Way to Start and Interact with a Program from Windows

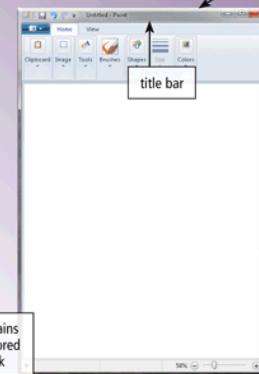
Step 1
When you turn on a PC-compatible computer, Windows loads into memory and displays the desktop on the screen. Click the Start button on the Windows taskbar to display the Start menu.



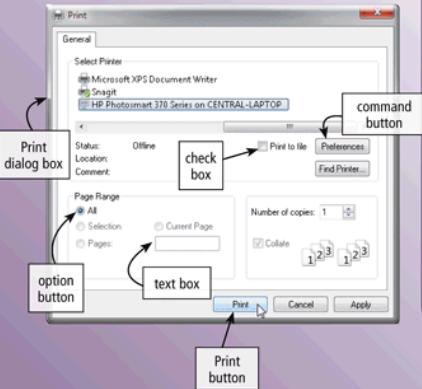
Step 2
Click All Programs on the Start menu to display the All Programs list. Click Accessories in the All Programs list and then point to Paint in the Accessories list.



Step 3
Click Paint. The Paint window opens on the desktop.



Step 4
Instruct the Paint program to open a file that is stored on the hard disk.



Step 5
Instruct the Paint program to print the photo. When the Print dialog box appears, click its Print button.

Business Software

- **Business software** is application software that assists people while performing business activities

Word Processing

Spreadsheet

Database

Presentation

Note taking

Personal information manager

Business software for phones

Business software suites

Project management

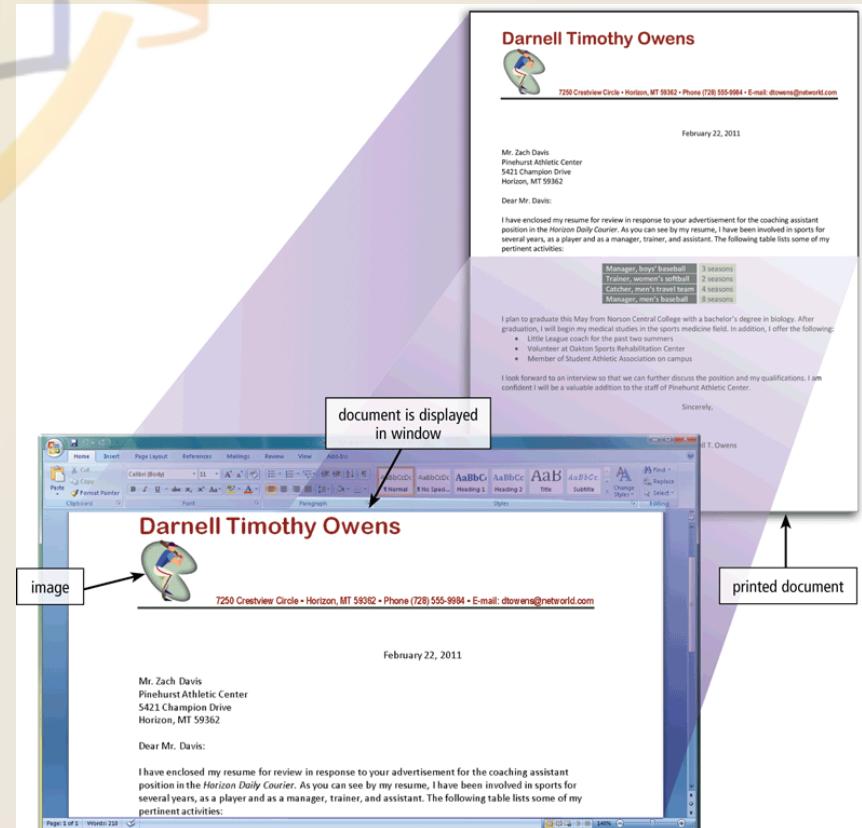
Accounting

Document management

Enterprise computing

Business Software

- Word processing software allows users to create and manipulate documents
- Clip art is a collection of electronic drawings, photos, and other images



Business Software

- Developing a document

- Enter text and numbers
- Insert images
- Perform other documents

Create a document

Edit a document

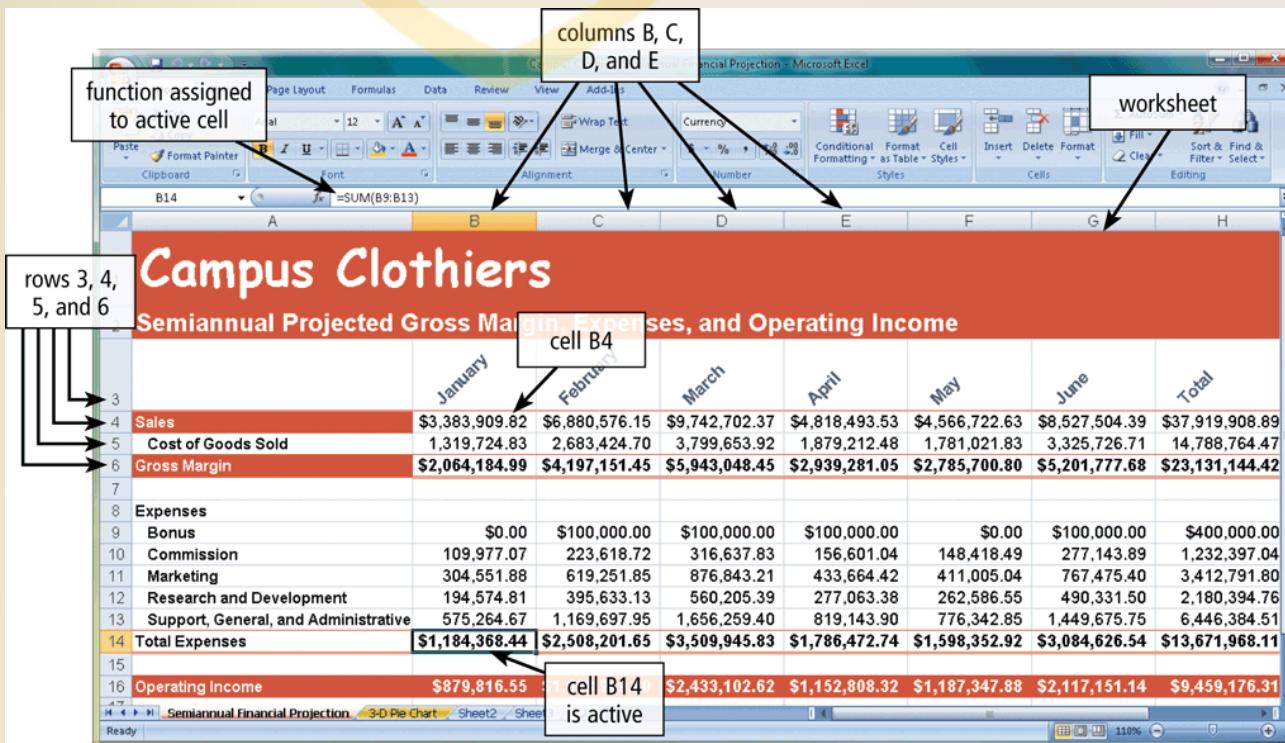
- Make changes to existing content
- Inserting, deleting, cutting, copying, and pasting

- Change appearance
 - Font
 - Font size

Format a document

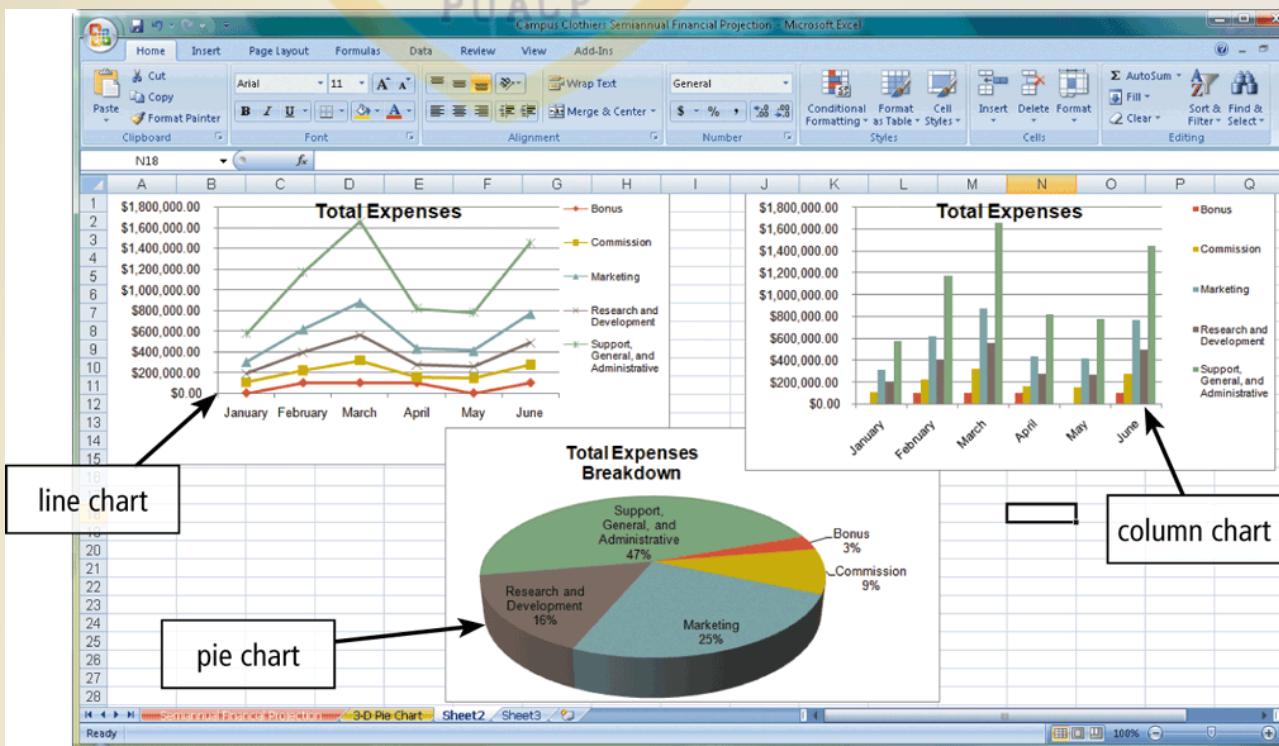
Business Software

- **Spreadsheet software** allows users to organize data in rows and columns and perform calculations



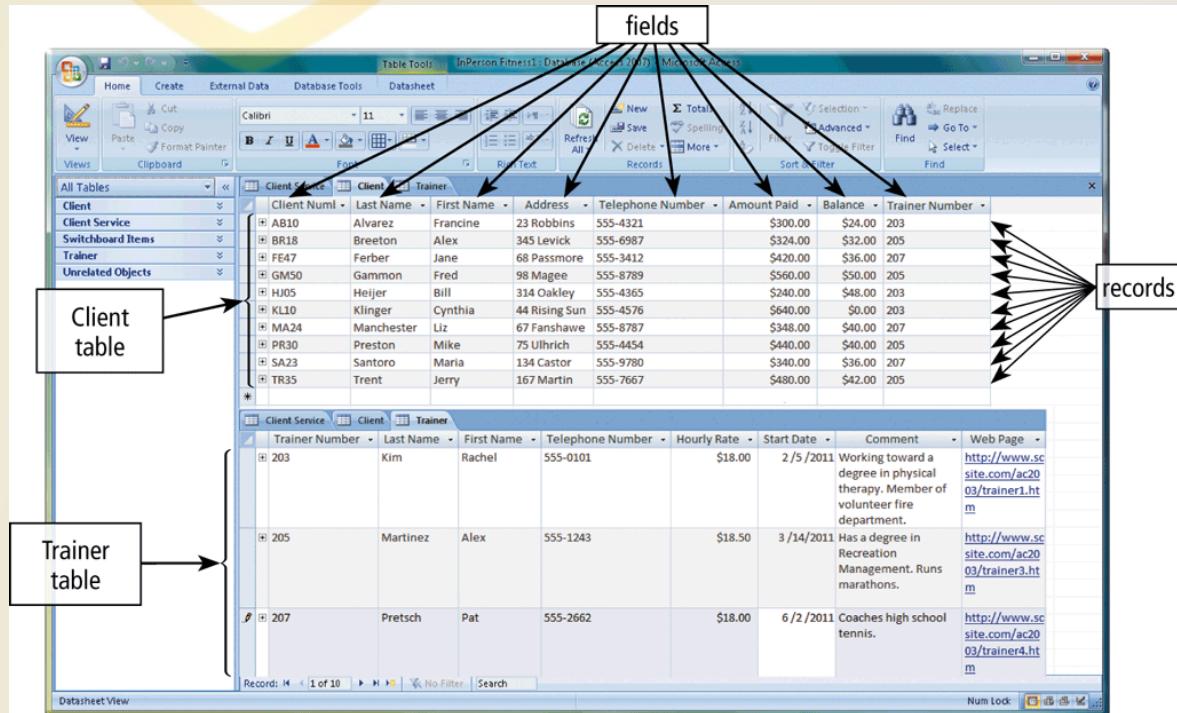
Business Software

- Charting depicts data in a spreadsheet in graphical form



Business Software

- A **database** is a collection of data organized in a manner that allows access, retrieval, and use of that data
 - **Database software** allows users to create, access, and manage a database



Business Software

- **Presentation software** allows users to create visual aids for presentations to communicate ideas, messages, and other information to a group



Business Software

- Note taking software is application software that enables users to enter typed text, handwritten comments, drawings, or sketches anywhere on a page

The screenshot shows a Microsoft OneNote page titled "Cardiovascular Systems". The main content is a section titled "Circulatory System Variations" which compares three organisms: Planaria, Insect, and Earthworm. It shows diagrams of their circulatory systems and labels like "Gastrovascular cavity", "Tubular heart", "Dorsal blood vessel", "Lateral hearts", and "Ventral blood vessel". Below this, there's a section titled "Human Heart" with a bulleted list:

- Primordium forms in cardiogenic plate at cranial end of embryo
- Angiogenic cell clusters lie in horseshoe shape
- Tube can be subdivided into

A large red handwritten note on the right side of the page says "this will be on the test!" with an arrow pointing to the list. On the right margin, there's a vertical sidebar with a list of tasks under "Top Priority": "Spanish Lit Paper", "Return chemistry text", "Pay fall semester tuition", and "Call Mom".

Business Software

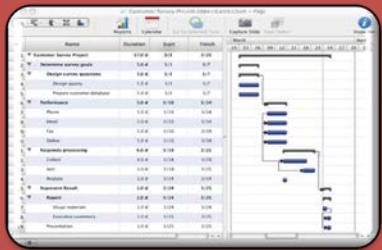
- A **software suite** is a collection of individual programs available together as a unit
- A **personal information manager (PIM)** is application software that includes

Appointment
calendar

Address
book

Notepad

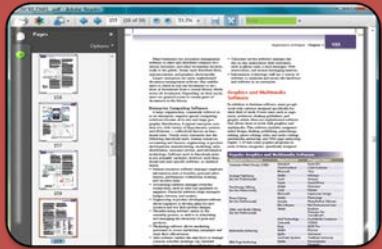
Business Software



Project management software allows a user to plan, schedule, track, and analyze the events, resources, and costs of a project



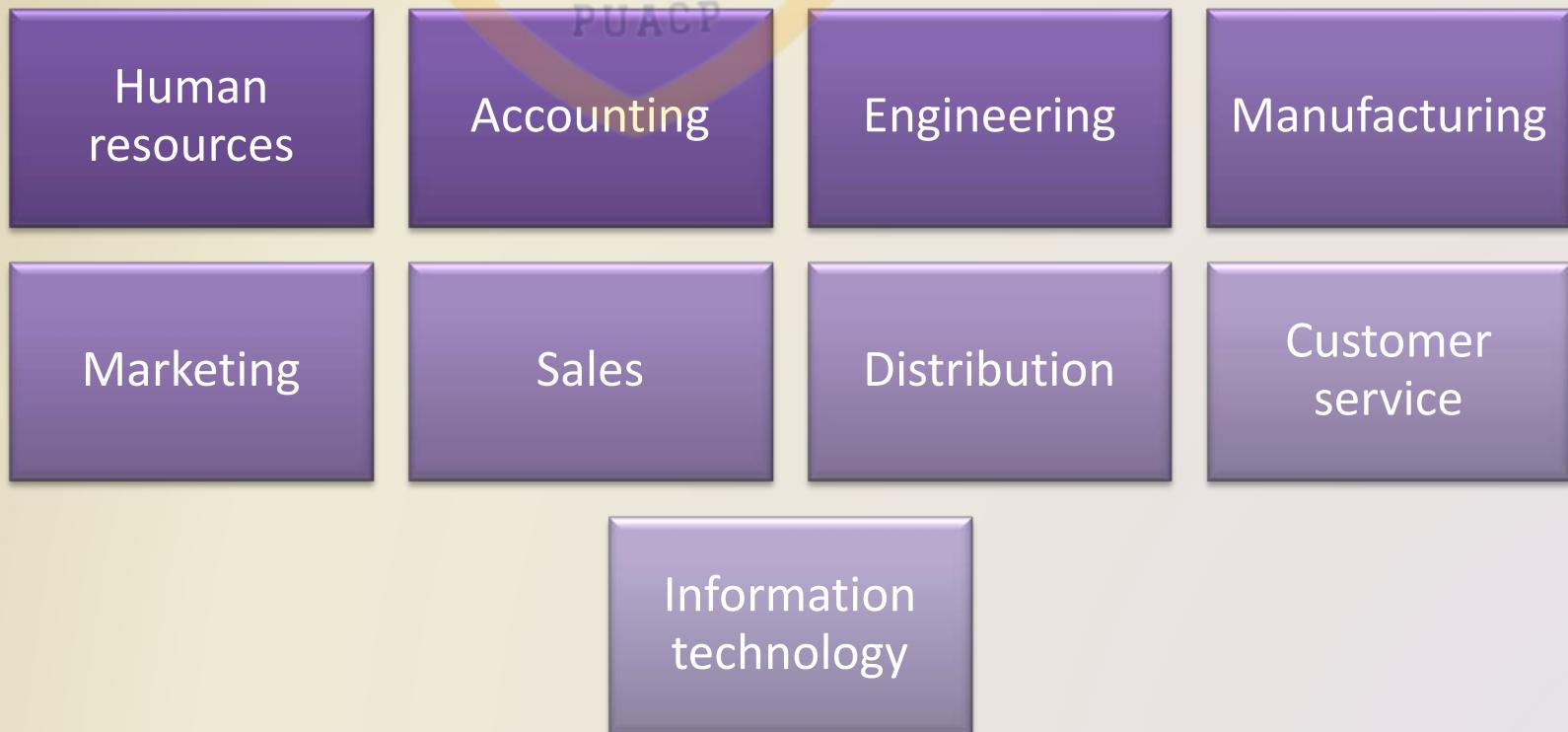
Accounting software helps companies record and report their financial transactions



Document management software provides a means for sharing, distributing, and searching through documents by converting them into a format that can be viewed by any user.

Business Software

- Enterprises typically require special computing solutions for various functional units



Graphics and Multimedia Software

Popular Graphics and Multimedia Software

Application Software	Manufacturer	Program Name	Application Software	Manufacturer	Program Name
Computer-Aided Design (CAD)	Autodesk	AutoCAD	Video and Audio Editing (for the Professional)	Adobe	Audition
	Chief Architect	Chief Architect			Premiere Pro
	Microsoft	Visio			Soundbooth
Desktop Publishing (for the Professional)	Adobe	InDesign	Avid Technology		Avid Media Composer
	Corel	Ventura		Cakewalk	SONAR
	Quark	QuarkXPress		Sony	ACID Pro
Paint/Image Editing (for the Professional)	Adobe	Illustrator	Multimedia Authoring	Adobe	Director
	Corel	Painter		Agilix	GoCourse
	Microsoft	Expression Design		SumTotal Systems	ToolBook Instructor
Photo Editing (for the Professional)	Adobe	Photoshop	Web Page Authoring	Adobe	Dreamweaver
	Arcadia	PhotoPerfect Ultimate			Fireworks
	Nik Software	Nik Professional Suite		Microsoft	Flash
					Expression Web
					SharePoint Designer

Graphics and Multimedia Software



Computer-aided design
(CAD) software



Desktop publishing
software



Paint/Image editing
software

Graphics and Multimedia Software



**Professional photo
editing software**



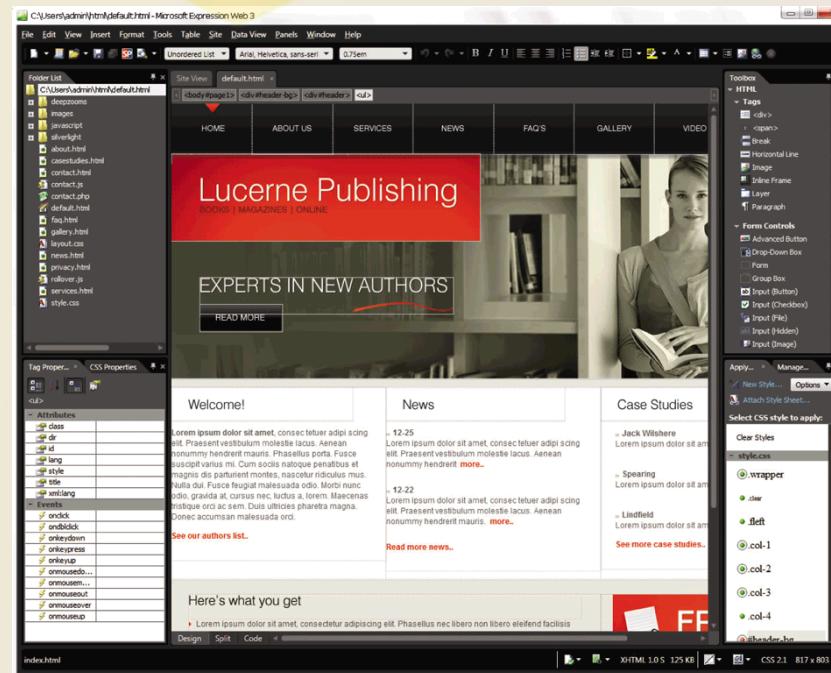
**Video and audio editing
software**



**Multimedia authoring
software**

Graphics and Multimedia Software

- **Web page authoring software** helps users of all skill levels create Web pages that include multimedia and interactive content

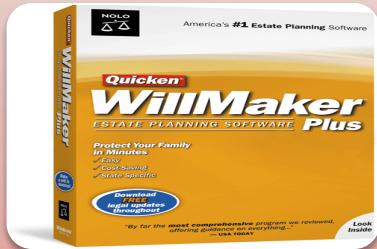


Software for Home, Personal, and Educational Use

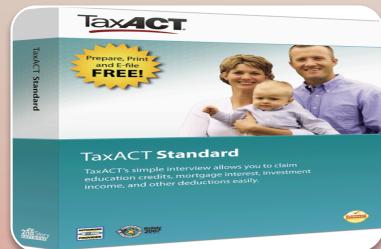


Personal finance software

PUACP

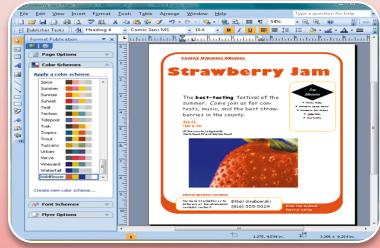


Legal software



Tax preparation software

Software for Home, Personal, and Educational Use



Personal DTP software

PUACP

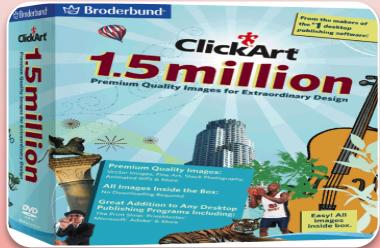


Personal paint/image editing software



Personal photo editing software

Software for Home, Personal, and Educational Use

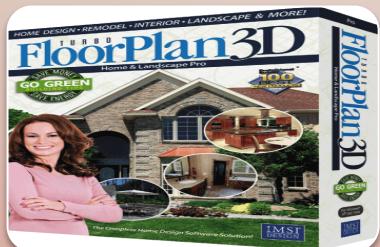


Clip art/image gallery

PUACP

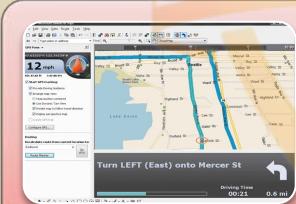


Video and audio editing software



Home design/landscaping software

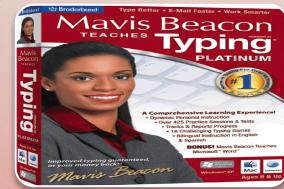
Software for Home, Personal, and Educational Use



Travel and mapping software



Reference software



Educational software



Entertainment software

Web Applications

- A Web application (**Web app**) is a Web site that allows users to access and interact with software from any computer or device that is connected to the Internet

Popular Web Applications

Program Name	Type of Application Software	Program Name	Type of Application Software
Britannica.com	Reference	MSN Encarta	Reference
Dictionary.com	Reference	Photoshop Express	Photo Editing
Flickr	Photo Editing and Photo Management	Picnik	Photo Editing
Gmail	E-Mail	TaxACT Online	Tax Preparation
Google Docs	Productivity Suite	TurboTax Online	Tax Preparation
Google Earth	Travel and Mapping	Windows Live Calendar	Personal Information Manager
Google Maps	Travel and Mapping	Windows Live Hotmail	E-Mail
		YouSendIt	File Transfer and E-Mail

Web Applications



campus clothiers semiannual financial projection - Windows Internet Explorer

http://spreadsheets.google.com/ccc?key=pgckPiYLsjY-hMCANvS34QA&hl=en

campus clothiers semiannual financial projection

Google Docs

campus clothiers semiannual financial...

New features | Docs Home | Help | Sign Out

Share | Autosaved on 10:27 AM

File Edit View Format Insert Tools Form Help

A B C D E F G H

Campus Clothiers

Semiannual Projected Gross Margin, Expenses, and Operating Income

	January	February	March	April	May	June	Total
Sales	\$3,383,909.82	\$6,880,576.15	\$9,742,702.37	\$4,818,493.53	\$4,566,722.63	\$8,527,504.39	\$37,919,908.89
Cost of Goods Sold	1,319,725	2,683,425	3,799,654	1,879,212	1,781,022	3,325,727	14,788,764
Gross Margin	\$2,064,184.99	\$4,197,151.45	\$5,943,048.45	\$2,939,281.05	\$2,785,700.80	\$5,201,777.68	\$23,131,144.42
Expenses							
Bonus	\$0.00	\$100,000.00	\$100,000.00	\$100,000.00	\$0.00	\$100,000.00	\$400,000.00
Commission	109,977	223,619	316,638	156,601	148,418	277,144	1,232,397
Marketing	304,552	619,252	876,843	433,664	411,005	767,475	3,412,792
Research and Development	194,575	395,633	560,205	277,063	262,587	490,332	2,180,395
Support, General, and Administrative	575,265	1,169,698	1,656,259	819,144	776,343	1,449,676	6,446,385
Total Expenses	\$1,184,368.44	\$2,508,201.65	\$3,509,945.83	\$1,786,472.74	\$1,598,352.92	\$3,084,626.54	\$13,671,968.11
Operating Income	\$879,816.55	\$1,688,949.80	\$2,433,102.62	\$1,152,808.32	\$1,187,347.88	\$2,117,151.14	\$9,459,176.31

Add Sheet | Semiannual Financial Projection | 3-D Pie Chart | Sheet2 | Sheet3

Application Software for Communications

Web Browser

E-Mail
PUACP

Instant Messaging

Chat Room

Text, Picture, Video
Messaging

RSS Aggregator

Blogging

Newsgroup/Message
Board

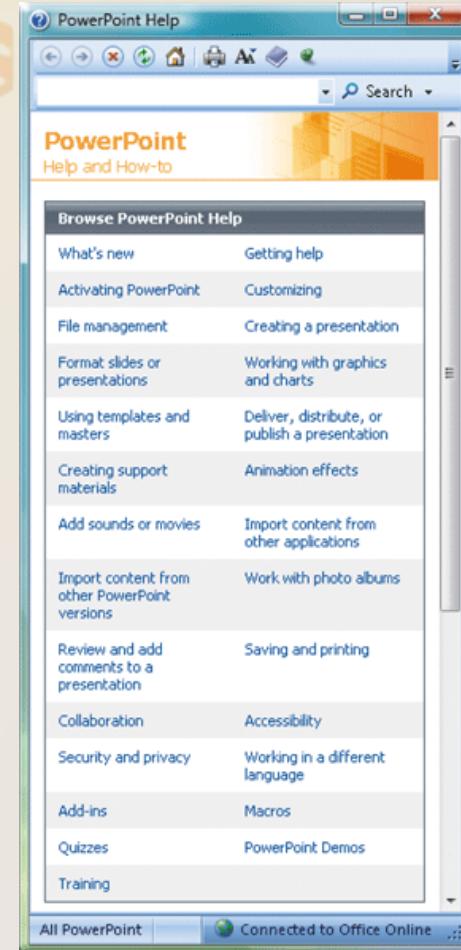
FTP

VoIP (Internet
Telephony)

Video Conferencing

Learning Tools for Application Software

- **Online Help** is the electronic equivalent of a user manual
- You can ask a question or access the Help topics in subject or alphabetical order



Learning Tools for Application Software

- **Web-based training** is a type of CBT that uses Internet technology and consists of application software on the Web
- **Distance learning (DL)** is the delivery of education at one location while the learning takes place at other locations

The screenshot shows a Moodle course interface. At the top, it says "Romeo and Juliet Sample Unit" and "Moodle Demo home > Romeo and Juliet". A message indicates "You are currently using guest access (Login)". On the left, there's a sidebar with "Online Users" (None), "Activities" (Assignments, Forums, Quizzes, Resources), and "Administration" (Enroll me in this course). The main content area has a "Topic outline" section with "Welcome to English 9!". Below it is a thumbnail image of a building. Under "General Information", there's a link to "Course Syllabus or Overview Goes HERE" and "Welcome and Instructions for Visitors". A "Calendar" shows the month of September with days 1 through 30. An "Events Key" indicates global and course events. In the bottom right, there's a "Credits" section mentioning Leslie Smith and a link to <http://moodlerooms.com/>. The footer of the slide includes the text "Ameer Kadhim Hadi" and the number "32".

Summary



How to start and interact with application software

Overview of a variety of business software, graphics and multimedia software, and home/personal/educational software, and communications software

Web applications

Learning tools for application software