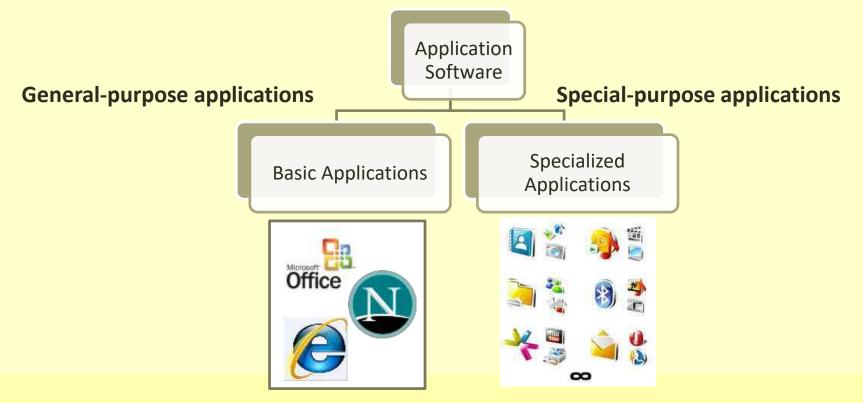
Lecture 02

Application Software

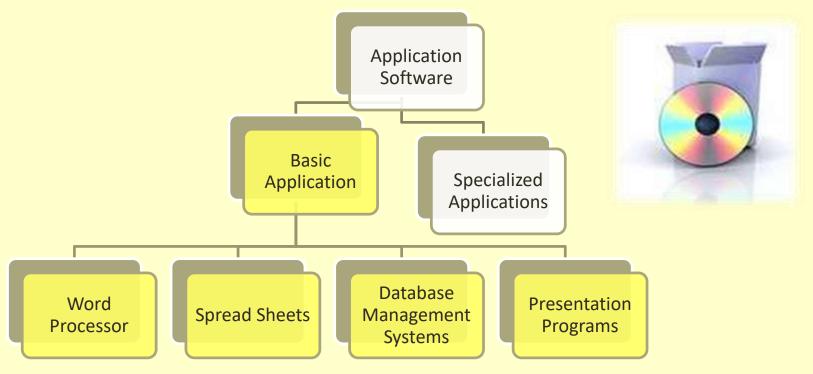
Application Software

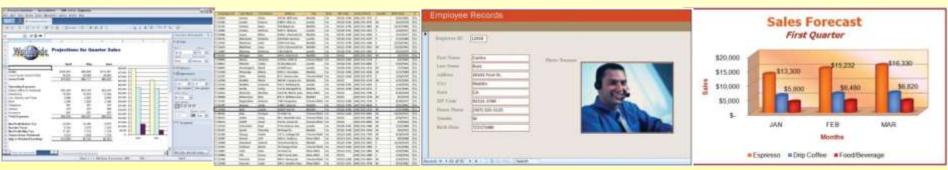
Application software: is end user software that is used to accomplish a variety of tasks (also known as apps)



Lecture 02

Application Software



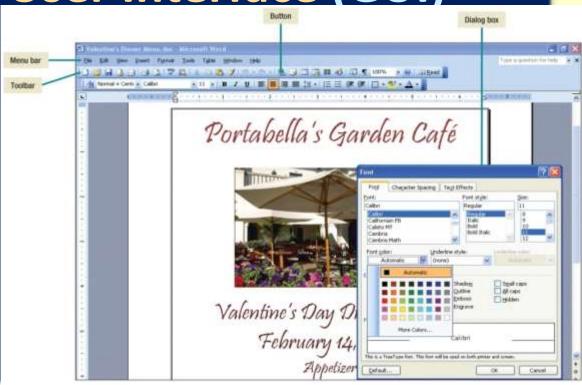


Lecture 02

Common features

1. Graphical User Interface (GUI)

- 2. Icons
- 3. Windows
- 4. Menus
- **5.** Toolbars



Tool bar:

- Quick access to commonly used commands

What's next?? ... Speech Recognition

 Use speech recognition program to select menu options and do different activities ...

Speech recognition: Allows your voice to control

application software

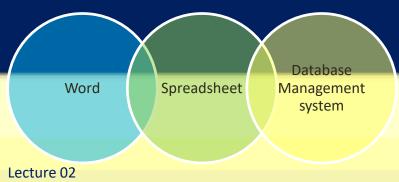


Lecture 02

Integrated Packages

- A single program that provides the functionality of several widely used programs
 - Popular with many home users
 - Classified as personal or home software
- Advantage: are cost and simplicity
- Disadvantage: limited functions
- The most widely used package is Microsoft Works

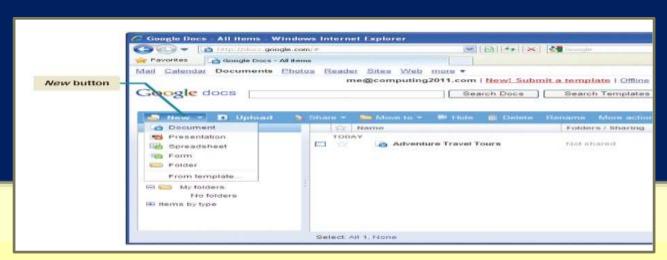




Software Suites

- Collection of separate application programs bundled together and sold as a group
- Four types of suites:
 - 1. Productivity suites or office software suite (e.g., Microsoft Office)
 - 2. Cloud suites or online office suites (e.g., Google Docs)
 - Specialized suites (graphics and planning .. Chapter 4)
 - 4. Utility suites (e.g., Norton Internet Security suite)

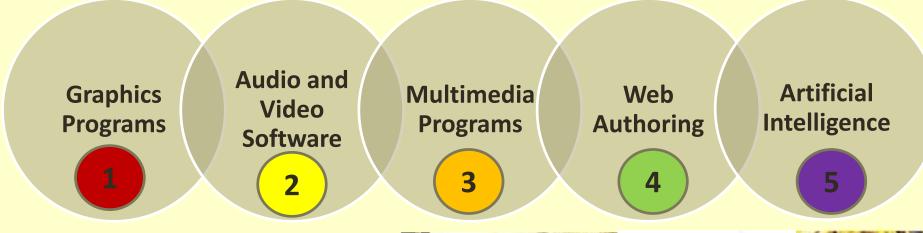




Lecture 02

In this Section...

Specialized applications: let users perform advanced computing tasks













Introduction



Create websites



Graphics Design





Lecture 02 can surf the web and scan documents and update your blog

1. Graphics programs

Desktop Publishing

Image Editors

Illustration Programs

Image Galleries

Graphics Suites

1. Graphics: Desktop Publishing

 Programs that allow you to Mix text and graphics to create publications with Professional quality

Desktop publishers focus on Page Design, Layout, and

provides greater flexibility.

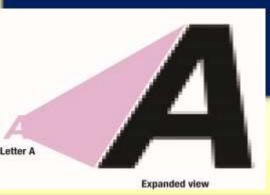
- Popular programs
 - Adobe InDesign
 - Microsoft Publisher
 - QuarkXPress

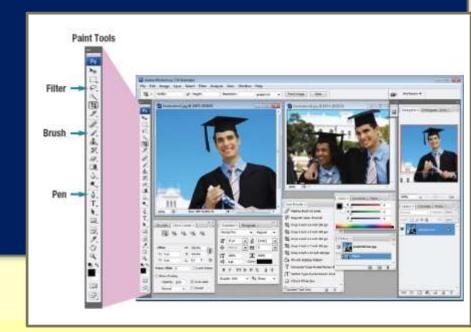




1. Graphics: Image Editors

- Image Editor = Photo Editor
- Programs for creating and editing bitmap images
 - Bitmap images use thousands of dots or pixels to represent an image
 - Each dot has a specific location, color, and shade.
 - Bitmap images are also called <u>raster images</u>
- Popular programs
 - Paint.NET
 - Adobe Photoshop
 - Corel Paint Shop Pro





1. Graphics: Illustration Programs

- Vector: another common type of graphic file
- Vector Image = Vector Illustration
- Vector images use geometric shapes or objects by connecting lines and curves
- Popular programs
 - Adobe Illustrator
 - Inkscape
 - CorelDRAW

Inkscape



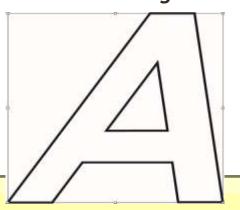




Bitmap Image



Vector Image



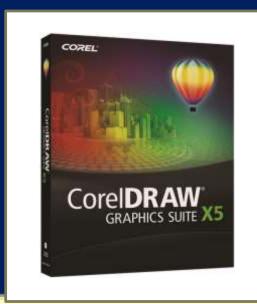
1. Graphics: Image Galleries

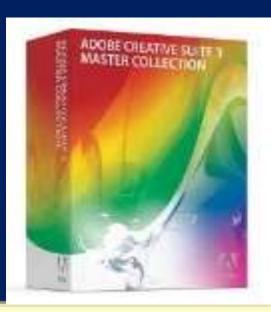
- Libraries of electronic images
- Used for a variety of applications
- Two basic types
 - 1. Stock photographs: Photographs
 - 2. Clip art: Graphic illustration

Organization	Site			
Classroom Clipart	www.classroomclipart.com			
ClipArt.com	www.clipart.com			
Graphics Factory	www.graphicsfactory.com			
MS Office clip art	office.microsoft.com/clipart			
iStockphoto	istockphoto.com			
Flickr Creative Commons	www.flickr.com/creativecommons/			
	Lecture 02			

1. Graphics: Graphic Suites

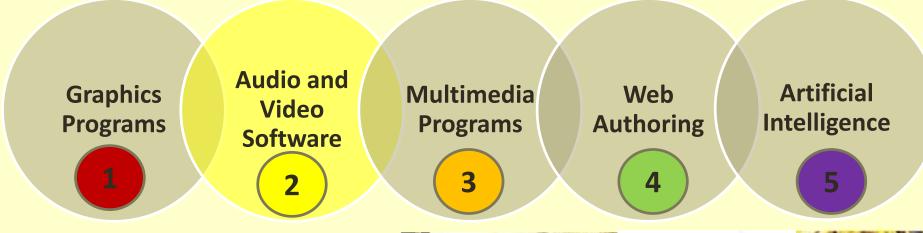
- Bundled graphic programs
- Can buy a larger variety of graphics programs at a lower cost
- Examples:
 - CorelDRAW Graphics Suite
 - Adobe Creative Suite





In this Chapter...

Specialized applications: let users perform advanced computing tasks













2. Audio and Video

Video Editing Software

Audio Editing Software

- Video editing software
 - Create and edit movies
 - Enhance digital video footage
 - Apple's iMovie or Windows Movie Maker
- Audio editing software
 - Create and edit audio clips and make MP3s
 - Apple's Garage Band or Sony's ACID



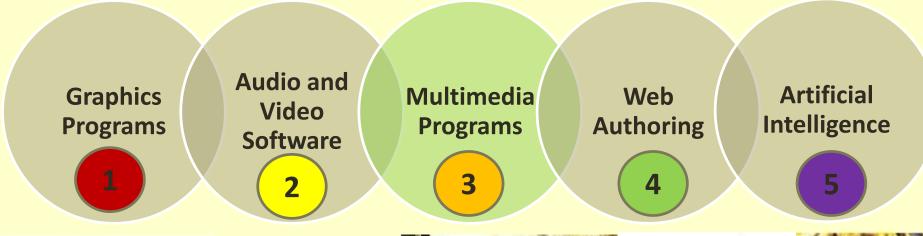
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Windows Movie Maker



In this Chapter...

Specialized applications: let users perform advanced computing tasks













3. Multimedia

The integration of a variety of media into one presentation

i.e. Video...Music...Voice...Graphics...Text

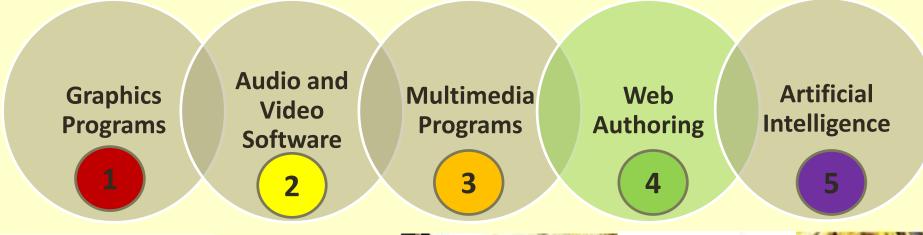
- Include user interactivity that allows the user to
 - Choose the information to view
 - Control the pace and flow of information
 - Respond to items and give feedback
 - Links and Buttons
- Multimedia Authoring Programs: Special programs used to create multimedia presentations.
 - Adobe Director
 - Toolbook





In this Chapter...

Specialized applications: let users perform advanced computing tasks













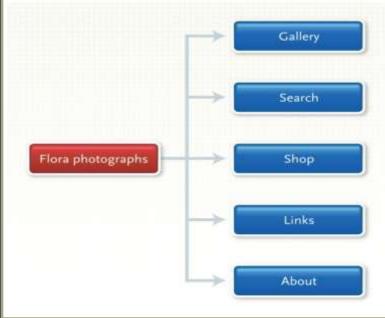
4. Web Authoring

- Web Authoring: creating a website
- Many individuals create their own personal sites, called Web logs or blogs, to keep in touch with friends and family



4. Web Authoring: Web Site Design

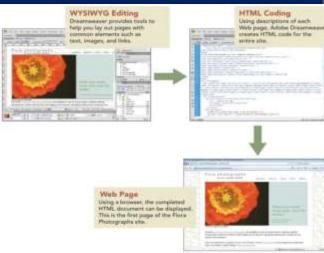
- First step is to determine website content
- Interactive multimedia form of communication
 - Create a graphical map of overall content
 - Add multimedia elements like animation
 - Macromedia's Flash



4. Web Authoring: Web Authoring Programs

- Known as Web page editors or HTML editors
 - Provide support for Web site design
 - Creates HTML coding
- Popular programs
 - Adobe Dreamweaver
 - NetObjects Fusion
 - Microsoft Expression
- Some web authoring programs WYSIWYG (What You See Is What You Get)..

Don't need to used or know HTML to design websites..



WIX: Create your own website for FREE



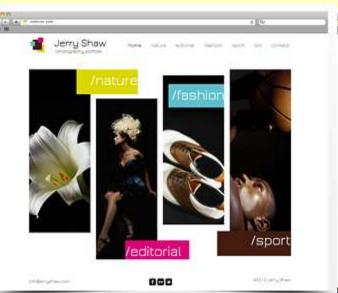
About WIX:

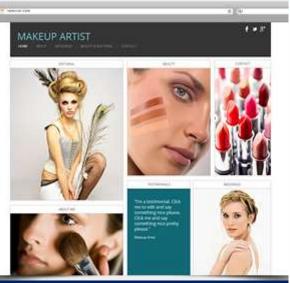
http://www.youtube.com/user/wixmypage?feature=results_main

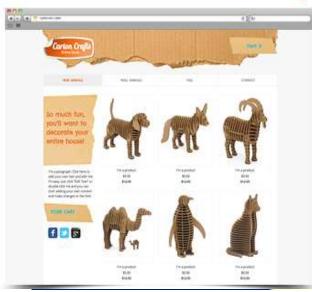
<u>Tutorial</u>

http://www.youtube.com/watch?v=cjjRw0Xd8nE&feature=player_embedded

Start your Own Business...







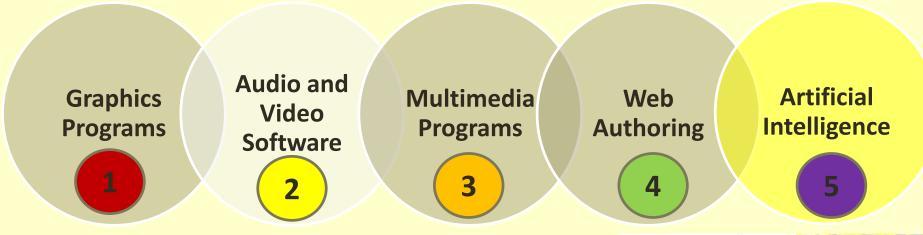






In this Chapter...

Specialized applications: let users perform advanced computing tasks









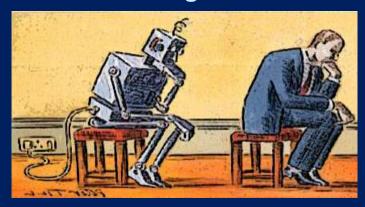




5. Artificial Intelligence

AI: Attempts to simulate human senses, thought s, and actions

Reasoning...Learning from past experiences ...using Senses
Artificial Intelligence Structured Problems

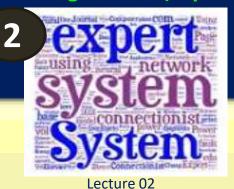


- Designed to help people and organizations become more productive
- Three areas of Al

Virtual reality



Knowledge-based (expert) systems



Robotics



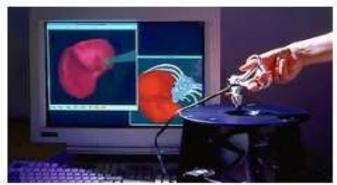
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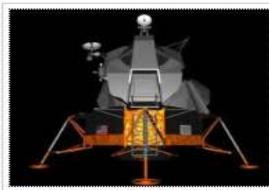
5. Artificial Intelligence: Virtual Reality (VR)

- Artificial or simulated reality generated in 3D by a computer
 Virtual Reality (VR) = Artificial Reality = Virtual Environment
- One of famous application:
 - Second Life









Lecture 02

5. Artificial Intelligence: Knowledge-Based (Expert) Systems











What if you capture the know-how of an expert and make it available for everyone?

This is what we call: knowledge based or Expert Systems

5. Artificial Intelligence: Knowledge-Based (Expert) Systems

- Artificial intelligence uses a database for assistance
- Database is known as a knowledge base and it contains:
 - Facts
 - Rules to relate facts
 - User Input to formulate Recommendation and Decisions
 - The sequence is determined by the users interaction and the knowledge base
- Many expert systems use Fuzzy Logic
- Fuzzy Logic: allow users to respond to questions in a very humanlike way.
 - i.e. System Question: How your classes were going?
 - You could respond: Ok..Great..Terrible...and so on.

Example: Expert System



www.webmd.com

5. Artificial Intelligence: Robotics

- The field of study concerned with using robots
- Robots: are computer-controlled machines
 - Mimic the motor activities of living things
 - Four types of robots:
 - Perception System Robots imitate some of the human senses
 - Industrial Robots perform tasks in factories, etc.
 - Mobile Robots can move and perform tasks
 - Household Robots perform household chores like vacuuming





Cell Phone Apps

- Cell phone apps are add-on features that perform a variety of tasks (e.g., address books, to-do lists, and alarms)
 - Over 10,000 apps for the iPhone alone
- App stores are Web sites
 that allow you to download
 apps for a nominal fee or free
 - Examples include Apple's App
 Store and Android Market



