

Chapter 3 Objectives

- Define application software
- Identify the widely used application software products and explain their key features
- Understand how system software interacts with application software
- Identify various products available as Web applications
- Identify the role of the user interface
- Describe the learning aids available with many software applications
- Explain how to start a software application

Next p. 32

Application Software

What is application software?

- Programs that perform specific tasks for users
- Also called a software application or an application
- Several reasons to use application software

To assist with graphics and multimedia projects

To serve as a productivity/business tool

To facilitate communications

To support household activities, for personal business, or for education

Next p. 32

Application Software

What are the categories of application software?

Productivity/Business	Graphic Design/Multimedia	Home/Personal/Educational
<ul style="list-style-type: none"> • Word Processing • Spreadsheet • Presentation Graphics • Database • Personal Information Manager (PIM) • Software Suite (e.g., word processing, spreadsheet, presentation graphics, database, PIM) • Project Management • Accounting 	<ul style="list-style-type: none"> • Computer-Aided Design • Desktop Publishing (Professional) • Paint/Image Editing (Professional) • Video and Audio Editing • Multimedia Authoring • Web Page Authoring 	<ul style="list-style-type: none"> • Integrated Software (e.g., word processing, spreadsheet, database) • Personal Finance • Legal • Tax Preparation • Desktop Publishing (Personal) • Paint/Image Editing (Personal) • Home Design/Landscaping • Educational • Reference • Entertainment
C O M M U N I C A T I O N S		
<ul style="list-style-type: none"> • E-mail • Instant Messaging 	<ul style="list-style-type: none"> • Web Browser • Groupware 	<ul style="list-style-type: none"> • Chat Rooms • Videoconferencing • Newsgroups

Next p. 32 Fig. 3-1

Application Software

What is system software?

- Programs that control the operations of the computer
- Serves as the interface between the user, the application software, and the computer's hardware

Next p. 33 Fig. 3-2

Application Software

What is an antivirus program?

- A utility that prevents, detects, and removes viruses from a computer's memory or storage devices
- Some viruses destroy or corrupt data

Next p. 33 Fig. 3-3

Ketabton.com

Discovering Computers 2003 Application Software
Concepts for a Digital World Web and XP Enhanced

What is a menu?

- A menu contains commands you can select

Next p. 35 Fig. 33

Discovering Computers 2003 Application Software
Concepts for a Digital World Web and XP Enhanced

What is an application window?

- A rectangular area of the screen that displays a program, data, and/or information

Next p. 36 Fig. 36

Discovering Computers 2003 Application Software
Concepts for a Digital World Web and XP Enhanced

What is a dialog box?

- A special window that provides information, presents available options, or requests a response

Next p. 38 Fig. 37

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What is productivity software?

- Software that assists people in becoming more effective and efficient

Software Application	Popular Packages
Word Processing	<ul style="list-style-type: none"> Microsoft Word Corel WordPerfect Lotus Word Pro
Spreadsheet	<ul style="list-style-type: none"> Microsoft PowerPoint Corel Presentations Lotus Freelance Graphics
Database	<ul style="list-style-type: none"> Microsoft Outlook CorelCENTRAL Lotus Organizer Microsoft Pocket Outlook Palm Desktop Palm MultiMail
Software Suite	<ul style="list-style-type: none"> Microsoft Office Corel WordPerfect Suite Lotus SmartSuite
Project Management	<ul style="list-style-type: none"> Microsoft Project Primavera SureTrak Project Manager
Accounting	<ul style="list-style-type: none"> Intuit QuickBooks

Next p. 37 Fig. 38

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What is word processing software?

- Allows users to create and manipulate documents that contain text and graphics

Next p. 38 Fig. 39

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What is clip art?

- A collection of drawings, diagrams, and photographs that you can insert into documents

Next p. 38 Fig. 39

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What are some word processing features?

Next p. 3.8

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is a major advantage of using a word processor?

- You can easily insert, delete, or rearrange words, sentences, paragraphs or entire sections
- Spelling and grammar checker

The house was deep in a remote part of the woods. The trees surrounded the porch in a protective circle. Small and young trees were the dominant feature of the d

Next p. 3.9

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What are other popular word processing features?

Next p. 3.9

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What are the stages of developing a document?

Next p. 3.10

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is a font?

- A name assigned to a specific design of characters
- Font size specifies the size or the characters in a particular font in points
 - A single point is about 1/72 of an inch in height
- Font style adds emphasis to a font such as **bold**, *italic*, and underline

Next p. 3.10 Fig. 3-11

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is a file?

- A named collection of data, instructions, or information
- Each file has a file name

Next p. 3.10

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World Web and XP Enhanced

What is voice recognition?

- The computer's capability of distinguishing spoken words

Step 6: Say, "Green" and then say, "End".

Next p. 3.11 Fig. 3-19

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World Web and XP Enhanced

What is spreadsheet software?

- Allows you to organize data
- Performs calculations
- Called a worksheet or spreadsheet

Next p. 3.12 Fig. 3-13

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World Web and XP Enhanced

How is a spreadsheet organized?

- Columns identified by letters
- Rows identified by numbers
- A cell is the intersection of a column and row

Next p. 3.12 Fig. 3-13

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World Web and XP Enhanced

What can a cell contain?

- Label
- Number
- Formula

Next p. 3.12

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World Web and XP Enhanced

What is a function?

- A predefined formula that performs common calculations

$=C4+C5+C6+C7+C8$ → $=SUM(C4:C8)$

INT, SUM, AVERAGE, RATE, TIME, DATE, ABS, NPV, PV, LOG, MAX, COUNT, MIN, ROUND, STDEV, PMT, SQRT, IF, NOW, SUM, FV, LN

Next p. 3.13

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World Web and XP Enhanced

What is recalculation?

- The capability of recalculating the rest of the worksheet when data in a worksheet changes
- What if analysis

Projected College Cash Flow Analysis					
Expenses	Freshman	Sophomore	Junior	Senior	Total
Totals recalculated	10,000.00	10,500.00	11,000.00	11,500.00	43,000.00
Total	\$ 14,740.00	\$ 15,477.00	\$ 16,225.86	\$ 16,987.15	\$ 63,430.01

Next p. 3.13

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What is charting?

- Allows you to display spreadsheet data in graphical form

line chart
column chart
pie chart

Next
p. 3.14 Fig. 3-15

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What is a database?

- A collection of data organized in a manner that allows access, retrieval, and use of that data

Next
p. 3.15 Fig. 3-16

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What is database software?

- Allows you to create, access, and manage a database
- Also called a database management system (DBMS)

add, change, and delete data
sort and retrieve data
create forms and reports using the data

Next
p. 3.16

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What are the parts of a database?

- A table contains records
- A record is a row in a table that contains information about a given person, product, or event
- A field is a column in a table that contains a specific piece of information within a record

fields
records
Supplier table

Next
p. 3.16 Fig. 3-16

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

How is a database organized?

- Records and fields in a table are described by the table structure

Item table structure
Supplier table structure

Next
p. 3.16 Fig. 3-17

Discovering Computers 2003 Productivity Software
Concepts for a Digital World Web and XP Enhanced

What does the table structure contain for each field?

field name
field size
data type

Next
p. 3.16

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

How do you extract information from a database?

- Sort records in a particular order
- Query database

Item Id	Description	Units On Hand	Cost	Selling Price	Supplier Code
4563	Coffee Mug	20	\$1.85	\$4.75	BH
6189	Sports Towel	24	\$3.58	\$7.09	LG
7810	T-Shirt	25	\$9.50	\$14.95	AC
3663	Baseball Cap	25	\$11.17	\$19.90	LG

Record: 4 of 4 (Filtered)

Next p. 3.17 Fig. 3-19

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is presentation graphics software?

- Used to create documents that communicate ideas and messages
 - Sometimes called a slide show

watch →

Education and Skills

- Nearly 60 percent have a bachelor's degree or a graduate degree
- Many programming languages required
 - Emphasis on object-oriented languages
- Business skills and experience desired

Next p. 3.18 Fig. 3-20

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is slide sorter view?

- View of small versions of all the slides

Next p. 3.18 Fig. 3-21

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is a personal information manager (PIM)?

- An application that includes an appointment calendar, address book, and other features
- Organize personal information on both desktop and handheld computers
- Synchronization

handheld computer

Next p. 3.20 Fig. 3-23

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is a software suite?

- A collection of individual applications sold as a single package
- Two major advantages:
 - lower cost
 - ease of use

Next p. 3.20

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World
 Web and XP Enhanced

What is project management software?

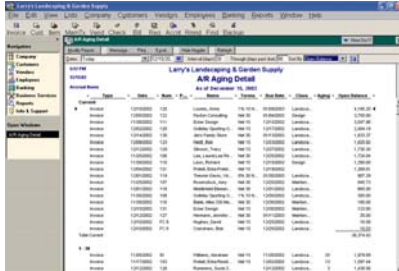
- Allows you to plan, schedule, track, and analyze the events, resources, and costs of a project

Next p. 3.21 Fig. 3-24

Discovering Computers 2003 Productivity Software
 Concepts for a Digital World Web and XP Enhanced

What is accounting software?

- Helps companies record and report their financial transactions



Next
p. 321 Fig. 3-25

Discovering Computers 2003 Graphics and Multimedia Software
 Concepts for a Digital World Web and XP Enhanced

What are some popular graphics and multimedia software products?

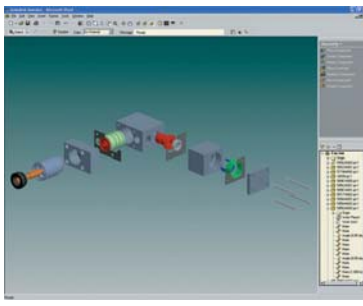
Software Application	Popular Packages
Computer-Aided Design (CAD)	<ul style="list-style-type: none"> Autodesk AutoCAD Microsoft Visio Technical
Desktop Publishing (Professional)	<ul style="list-style-type: none"> Adobe InDesign Adobe PageMaker Corel VENTURA QuarkXPress
Paint/Image Editing (Professional)	<ul style="list-style-type: none"> Adobe Illustrator Adobe Photoshop CorelDRAW Macromedia FreeHand
Video and Audio Editing	<ul style="list-style-type: none"> Adobe Premiere Ulead Systems MediaStudio Pro
Multimedia Authoring	<ul style="list-style-type: none"> click2learn.com ToolBook Macromedia Authorware Macromedia Director
Web Page Authoring	<ul style="list-style-type: none"> Adobe GoLive Lotus FastSite Macromedia Dreamweaver Macromedia Flash Microsoft FrontPage

Next
p. 322 Fig. 3-26

Discovering Computers 2003 Graphics and Multimedia Software
 Concepts for a Digital World Web and XP Enhanced

What is computer-aided design (CAD)?

- Software that allows you to create engineering, architectural, and scientific designs

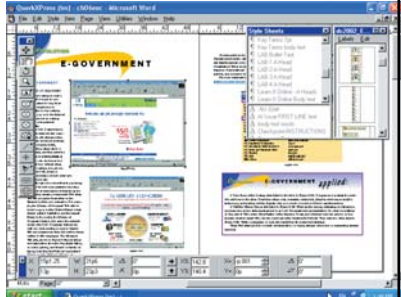


Next
p. 322 Fig. 3-27

Discovering Computers 2003 Graphics and Multimedia Software
 Concepts for a Digital World Web and XP Enhanced

What is desktop publishing software?

- Enables you to design and produce sophisticated documents that contain text, graphics, and brilliant colors




Next
p. 323 Fig. 3-28

Discovering Computers 2003 Graphics and Multimedia Software
 Concepts for a Digital World Web and XP Enhanced

What is paint/image editing software?

- Used to create and modify graphical images
- Sometimes called illustration software



Next
p. 324 Fig. 3-29

Discovering Computers 2003 Graphics and Multimedia Software
 Concepts for a Digital World Web and XP Enhanced

What is video and audio editing software?

- Video editing software allows you to modify a segment of a video, called a clip
- Audio editing software allows you to modify audio clips




Next
p. 325 Fig. 3-30

Discovering Computers 2003 Graphics and Multimedia Software
 Concepts for a Digital World Web and XP Enhanced

What is multimedia authoring software?

- Allows you to combine text, graphics, audio, video, and animation into an interactive presentation
- Also called **authorware**



Next
p. 3.25 Fig. 3-31

Discovering Computers 2003 Graphics and Multimedia Software
 Concepts for a Digital World Web and XP Enhanced

What is Web page authoring software?

- Allows you to create Web pages



Next
p. 3.25

Discovering Computers 2003 Software for Home, Personal, and Educational Use
 Concepts for a Digital World Web and XP Enhanced

What software products are available for home, personal, and educational use?

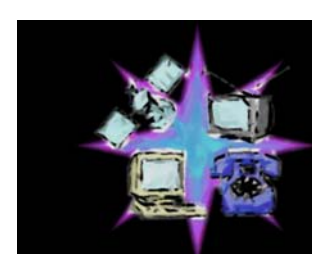
Software Application	Popular Packages
Integrated Software	• Microsoft Works
Personal Finance	• Intuit Quicken • Microsoft Money
Legal	• Broderbund Family Lawyer • Kiplinger's WILL Power • Quicken Lawyer
Tax Preparation	• Intuit TurboTax • Kiplinger TaxCut
Desktop Publishing (Personal)	• Broderbund Print Shop Pro Publisher • Microsoft Publisher
Paint/Image Editing (Personal)	• Adobe PhotoDeluxe • Broderbund Print Shop • Corel PHOTO-PAINT • Jasc! Paint Shop Pro • Microsoft Picture It! Photo
Clip Art/Image Gallery	• Corel GALLERY • Nova Development Art Explosion
Home Design/Landscaping	• Broderbund 3D Home Design Suite • Quality Plans Complete LandDesigner
Reference	• American Heritage Talking Dictionary • Microsoft Encarta • Microsoft Pocket Streets • Microsoft Streets & Trips • Rand McNally StreetFinder • Rand McNally TripMaker

Next
p. 3.26 Fig. 3-32

Discovering Computers 2003 Software for Home, Personal, and Educational Use
 Concepts for a Digital World Web and XP Enhanced

What software facilitates communication?

- ❖ E-mail
- ❖ Web browsers
- ❖ Chat rooms
- ❖ Newsgroups
- ❖ Instant messaging
- ❖ Groupware
- ❖ Videoconferencing

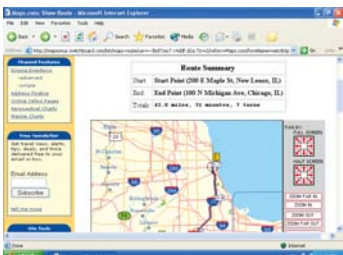


Next
p. 3.31

Discovering Computers 2003 Applications on the Web
 Concepts for a Digital World Web and XP Enhanced

What is a Web application?

- A software application that exists on a Web site, such as maps and directions
 - ⊕ Some Web applications store your data and information at their site
 - ⊕ Some are free

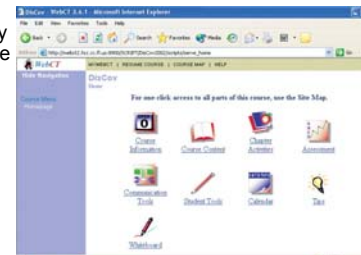


Next
p. 3.33 Fig. 3-41

Discovering Computers 2003 Applications on the Web
 Concepts for a Digital World Web and XP Enhanced

What is Web-based training (WBT)?

- Self-directed, self-paced instruction on a topic on the Web
 - ⊕ Distance learning (DL) is the delivery of education at one location while the learning takes place at other locations



Next
p. 3.35 Fig. 3-44

Discovering Computers 2003 Applications on the Web
 Concepts for a Digital World Web and XP Enhanced

What is an application service provider (ASP)?

- Third party organization that manages and distributes software and services on the Web
- Allows companies to outsource information technology (IT) needs

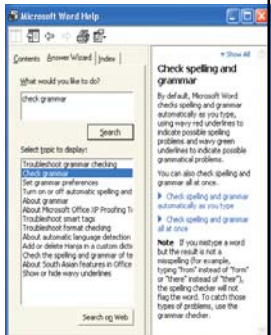


Next
p. 3.35 Fig. 3-45

Discovering Computers 2003 Learning Aids and Support Tools Within an Application
 Concepts for a Digital World Web and XP Enhanced

What is Online Help?

- Electronic equivalent of a user manual
- Context sensitive help



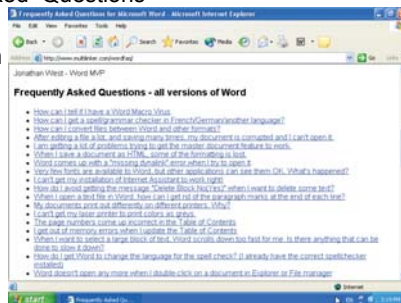
Next
p. 3.36 Fig. 3-46a

Discovering Computers 2003 Learning Aids and Support Tools Within an Application
 Concepts for a Digital World Web and XP Enhanced

What is an FAQs page?

- Frequently Asked Questions

- Often available on a Web site that provides updates




Next
p. 3.36 Fig. 3-46b

Discovering Computers 2003 Learning Aids and Support Tools Within an Application
 Concepts for a Digital World Web and XP Enhanced

What is a wizard?

- An automated assistant that helps you complete a task



Next
p. 3.36 Fig. 3-46c

Discovering Computers 2003 Learning Aids and Support Tools Within an Application
 Concepts for a Digital World Web and XP Enhanced

How can I learn more about a software package?

- Books
- Web
- School



Next
p. 3.37 Fig. 3-47

Discovering Computers 2003 Summary of Application Software
 Concepts for a Digital World Web and XP Enhanced

- Application software
- Productivity software
- Developing a document
- Graphics and multimedia software
- Software for home, personal, and educational use
- Software for communications
- Applications on the Web
- Learning aids and support tools within an application

Chapter 3 Complete

Next

**Get more e-books from www.ketabton.com
Ketabton.com: The Digital Library**