

Computing Concepts

新概念

计算机英语

Stephen Haag Maeve Cummings Alan I Rea, Jr.



清华大学出版社

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THE I-SERIES: COMPUTING CONCEPTS . . . THE FUN STARTS HERE!

INVITING . . .



Interactive Companion Lab Support

Featured on the chapter opener, this handy list lets you know which multimedia labs are most appropriate for use with the chapter. Twenty labs are included on the free CD packaged with your text.

Did You Know?

These interesting and fun facts grab your attention right from the start.

Did You Know? Sidebars

Integrated in the margin throughout the text, this feature continues the chapter-opening theme of intriguing facts for your reading enjoyment.

What Types of Businesses Are Out There? You can categorize a business in different ways—whether it's product or service criented, whether it sells primarily to individual customers or to other businesses, or by its industry (food, manufacturing, health care, etc.). You can also categorize a business according to how you can interact with it through e-commerce. Brick-and-Morter Businesses If you can interact with a business only by visiting a physical location such as a store, then it's a brick-and-mortar business. A brick-and-mortar businesses can be a store, then it's a brick-and-mortar businesses fit into this category. An exception would be mail-order businesses fit into this category, An exception would be mail-order businesses fit into this category. An exception would be mail-order businesses fit into this category. An exception would be mail-order businesses. Click-and-Mortar Businesses Today most businesses that exist in the physical world are also on the Web. These are click-and-mortar businesses. A life world such as a store) and a Web site that supports some type of e-commerce. For some click-and-mortar businesses, e-commerce may be a Web page with a phone number and directions. Other businesses such as a ICPneney place their catalogs on the Web so you can buy items with your credit card and have them delivered to your home (see Figure 4.1).

l series insights



I-Series Insights

Designed to focus on Ethics, Security, and Privacy issues, I-Series Insights provide lively, provocative discussions of these important topics.

practically **speaking**

The Bast Applications of Virtual Reality

Imagine a world in which the cale blue feels like sandpaper; a world in which the cale blue feels like sandpaper; a world in which the only interest of the sandpaper; a world in which a pin dropping on the fluor world in which a pin dropping on the fluor sounds like the racking of thunder. That's the real world for a person with autism. Autism is a disease that interferes with the development of the part of the brain that processes semony the part of the brain that processes semony things foundpaper grinding across the skin) when they see colors. For autistic people, the world is a small serior for the skin when they see colors.

Virtual reality is indeed an emerging and cutting edge technology, and will diarmatically change the great property of the cutting edge technology, and will diarmatically change the way the control of the cutting the cutti



Practically Speaking

These boxes discuss a range of interesting, real-life technology issues. Selected examples include: Internet addiction, speed of speech recognition, and wirelessly wired.

INSIGHTFUL . . .

Four special-interest boxed features sure to engage you are woven throughout the text-bringing concepts to life!

buy

Ups and Downs of "Always-On" Internet Connections



I-Buy

These boxes cover pragmatic topics related to buying and upgrading your own PC. Selected examples include: lease vs. purchase, warranties, and quality of life.

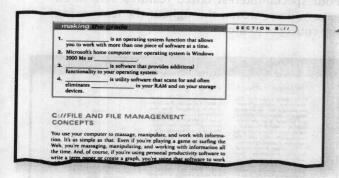
I-Witness

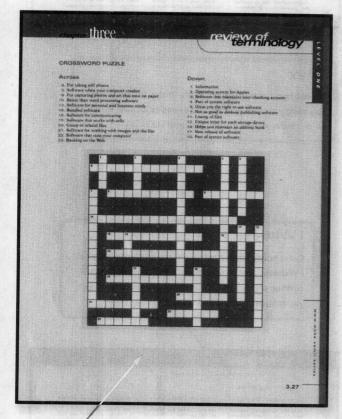
Conveniently located before the end-of-chapter material, I-Witness boxes provide the do's and don'ts of Web site creation and design. Critical thinking is encouraged as you analyze good and bad sites.

witness

The Blinking Bings

BLINK





Level One: Review of Terminology

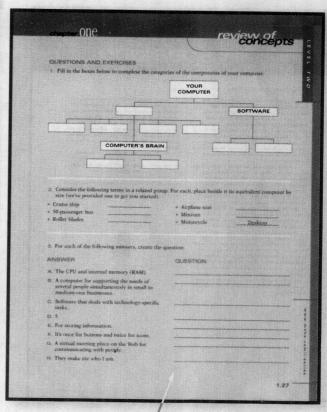
Features a crossword puzzle that makes learning fun!

Making the Grade

These checkpoints, made up of short-answer questions, end each major chapter section, making sure you understand the concepts before reading on. Answers appear in an end-of-book Appendix.

INTERACTIVE ...

End-of-chapter material is organized to follow a 3-level system of instruction. This rich assortment of exercises and projects ensures mastery of the material.



Level Two: Review of Concepts

Takes you to the next level with various exercise opportunities, including fill-in, answer/question, and more.

chapter IIICC

hands-on projects

e-commerce

As you travel, would you profer to have directions from a Web site or use a "lodd-up" map? Can the information on a Web site be as reliable as a fold-up map? On, in reserve, can a fold-up map that was probably printed some time ago be as up-to-date as the information on a Web site?

First of all, which of these sites are for bank t exist only on the Web? That is, which site

hands-on projects

three

on the web

of choice. Report back to your class the exact set of steps it takes to change a screen saver on your

3. Categorizing Personal Productivity Software

chepter []][[][]

hands-on

ethics, security & privacy

Clamp down very hard on the P. pirate software?

hands-on projects

three

group activities

1. Garces and Entertrainment Software. Many people would also include "games and cantestament" as a category in personal productivity software. This perticular set of software makes hillions of dollars each year in revenue. You can probably find more public domain, shareware, and free-ware games and entertrain-other category of personal productivity software. Should "games and entertrainment" be a caregory within personal productivity software? Suppose the productivity software?

4. Adding Sound to a PowerPoint Presentation

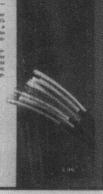
Looking Back/Looking Ahead

This unique end-of-chapter feature involves you in summarizing key chapter concepts, while preparing you for what lies ahead.

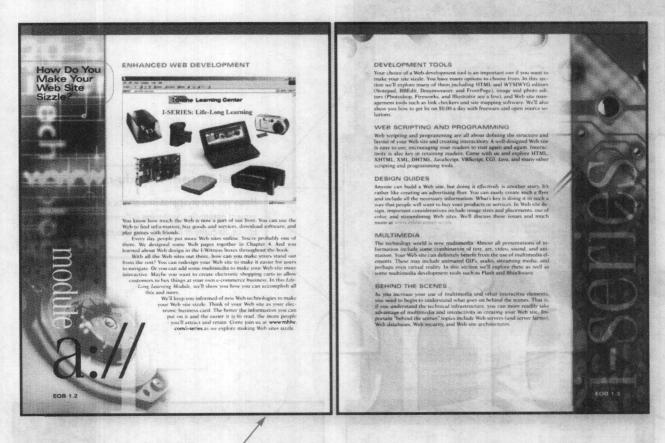
Level Three: Hands-on Projects

Helps you put principles into practice with an array of project categories, including e-Commerce, On the Web, Ethics, Security & Privacy, and Group Activities.

Looking Back/Looking Ahead



INSPIRING!



Life-Long Learning Modules

The learning never ends! That's why the authors created these unique and engaging modules. With a brief introduction in the text, the authors then take you to the text Web site for further exploration of these timely topics. Modules include enhanced web development, careers, new technologies, and more. See for yourself—visit www.mhhe.com/i-series.

We understand that, in today's teaching environment, offering a textbook alone is not sufficient to meet the needs of the many instructors who use our books. To teach effectively, you must have a full complement of supplemental resources to assist you in every facet of teaching, from preparing for class to conducting a lecture to assessing students' comprehension. *The I-Series* offers a complete supplements package and Web site.

INSTRUCTOR RESOURCES

Instructor's Resource Kit

The Instructor's Resource Kit is a CD-ROM containing the Instructor's Manual in both MS Word and .pdf formats, PowerPoint Slides with Presentation Software, Brownstone test generating software, and accompanying test item files in both MS Word and .pdf formats for each chapter. The CD also contains figure files from the text. The features of each of the three main components of the Instructor's Resource Kit are highlighted below.

Instructor's Manual

- Chapter learning objectives per chapter.
- Chapter outline with teaching tips.
- Lecture notes illustrating key concepts and ideas.
- Annotated syllabi (using multiple time formats) depicting a time table and schedule for covering chapter content.
- Suggestions for integrating the teaching of applications.
- Answers to all Making the Grade and end-ofchapter questions.

PowerPoint Presentation

Prepared by Linda Mehlinger,
Morgan State University

The PowerPoint presentation is designed to provide you with comprehensive lecture and teaching resources, including:

- Chapter learning objectives followed by source content that illustrates key terms and key facts per chapter.
- FAQ's (Frequently Asked Questions) to show key concepts throughout the chapter. Also,

- lecture notes to illustrate these key concepts and ideas.
- End-of-chapter exercises and activities per chapter as taken from the end-of-chapter materials in the text.
- Speaker's notes are incorporated throughout the slides per chapter.
- Figures/screen shots are incorporated throughout the slides per chapter.

PowerPoint includes presentation software for you to design your own presentation for your courses.

Test Bank in our smeaman site daw amount

Prepared by Margaret Trenholm-Edmunds, Mount Allison University

The I-Series Test Bank, using Diploma Network Testing Software by Brownstone, contains over 2,000 questions (both objective and interactive) categorized by topic, page reference to the text, and difficulty level of learning. Each question is assigned a learning category:

- Level 1: Key Terms and Facts
- Level 2: Key Concepts
- Level 3: Application and Problem-Solving

The types of questions consist of 40 percent multiple choice, 40 percent true/false, and 20 percent fill-in/short answer questions.

DIGITAL SOLUTIONS FOR INSTRUCTORS AND STUDENTS

Online Learning Center/Web Site

The Online Learning Center (OLC) that accompanies *The I-Series* is accessible through our Information Technology Supersite at www.mhhe.com/catalogs/irwin/it/. This site provides additional review and learning tools developed using the same three-level approach found in the text and supplements. To locate *The I-Series* OLC/Web site directly, go to www.mhhe.com/i-series. The site is divided into three key areas:

• Information Center contains core information about the text, the authors, and a guide to our additional features and

benefits of the series, including the supplements.

- Instructor Center offers instructional materials, downloads, additional activities and answers to additional projects, relevant links for professors, solutions files, and more.
- Student Center contains chapter objectives and outlines, self-quizzes, additional projects, student data files, Web links, and more.

As teachers, we realize that no printed text can be completely up-to-date. The *I-Series: Computing Concepts* Web site augments the printed texts by providing the most up-to-date reviews of technology and much more. Below is just a partial list of exciting topics you'll find on the Web site.

- Personal digital assistants
- Web sites for career searching
- How to use search engines
- Web computers
- Technical Internet resources
- Free image and background sites
- Multimedia authoring software reviews
- Public domain, shareware, and freeware sites
- Web sites that sell software
- M-commerce
- HTML guides
- New CPUs
- Printers and monitors
- Optical storage devices
- Satellite modems
- Bluetooth and WiFi
- Wireless ISPs
- Anti-virus software
- Privacy organizations
- Personal portals
- Automatic speech recognition
- Javascript sites

- Data flow diagramming
- Programming languages
- TQM and BPR
- Leasing a computer
 Leasing a computer
- Groupware suites
- Cultural oddities
- Web hosting services
- Intelligent agents
- Data mining

Online Courses Available—OLCs are your perfect solutions for Internet-based content. Simply put, these Centers are "digital cartridges" that contain a book's pedagogy and supplements. As students read the book, they can go online and take self-grading quizzes or work through interactive exercises.

Online Learning Centers can be delivered through any of these platforms:

- McGraw-Hill Learning Architecture (TopClass)
- Blackboard.com
 Blackboard.com
- Ecollege.com (formerly Real Education)
- WebCT (a product of Universal Learning Technology)

PageOut

As our Course Web Site Development Center, PageOut offers a syllabus page, URL, McGraw-Hill Online Learning Center content, online exercises and quizzes, gradebook, discussion board, and an area for student Web pages. For more information, visit the PageOut Web site at www.pageout.net.

PowerWeb

PowerWeb for Information Technology is an exciting online product available for *The I-Series*. A nominally priced token grants students access through our Web site to a wealth of resources—all corresponding to the text. Features include an interactive glossary; current events with quizzing, assessment, and measurement options; Web survey; links to related text content; and WWW searching capability via Northern Lights, an academic search engine.

STUDENT RESOURCES

Interactive Companion CD

Packaged with the text, this CD-ROM is designed for use in class, in the lab, or at home by students and instructors. The CD combines video, interactive exercises, and animations to cover the most difficult and popular computing concepts. On the first page of each chapter in *The I-Series: Computing Concepts*, you'll find a list of which Interactive Companion Labs are most appropriate for the chapter. You'll also find specific in-text references within each chapter. For example, the Interactive Companion lab titled "E-Mail Essentials" augments the coverage of e-mail in Chapter 2 (The World Wide Web and the Internet).



SimNet XPert

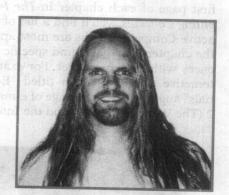
SimNet XPert is a simulated assessment and learning tool. It allows students to study MS Office XP skills and computer concepts, and instructors to test and evaluate students' proficiency within MS Office XP applications and concepts. Students can practice and study their skills at home or in the school lab using SimNet XPert, which does not require the purchase of Office XP software.

For more information on the extensive I-Series supplements package, contact your local McGraw-Hill/Irwin representative or visit our Web site at www.mhhe.com/i-series.

structure to test and evaluate students profi-STEPHEN HAAG

tive excitises, and animations to cover the most Stephen Haag is a professor and Chair of the Department of Information Technology and Electronic Commerce in the University of Denver's Daniels College of Business. Stephen holds a B.B.A. and M.B.A. from West Texas State University and a Ph.D. from the University of Texas at Arlington. Stephen has been teaching in the classroom since 1982 and publishing textbooks since 1984. He has also written numerous articles appearing in such journals as Communications of the ACM, Socio-Economic Planning Sciences, and the Australian Journal of Management.

Stephen is the author of 34 books including Management Information Systems for the Information Age, Interactions: Teaching English as a Second Language (with his mother and father), Information Technology: Tomorrow's Advantage Today (with Peter Keen), Excelling in Finance, and 17 other books within The I-Series. Stephen lives with his wife, Pam, and their three sons-Indiana, Darian, and Trevor-in Highlands Ranch, Colorado.



MAEVE CUMMINGS

Maeve Cummings is a professor of Information Systems at Pittsburg State University. She holds a B.S. in Mathematics and Computer Science; an M.S. in Mathematics; an M.B.A. from Pittsburg State University; and a Ph.D. in Information Systems from the University of Texas at Arlington. She has published in various journals and is on several journal editorial boards. She is the coauthor of Management Information Systems for the Information Age, now in its third edition, and Case Studies in Information Technology.

Maeve has been teaching for almost 20 years and lives in Pittsburg, Kansas, with her husband, Slim.

ALAN I REA, JR.

Alan I Rea, Jr. is an assistant professor of Computer Information Systems at Western Michigan University's Haworth College of Business. Alan holds a B.A. from The Pennsylvania State University, an M.A. from Youngstown State University, and a Ph.D. from Bowling Green State University. He has published in journals, including the Mid-American Journal of Business and Computers and Composition. Alan also has coauthored a book chapter in Web-Based Learning and Teaching Technologies and serves on various professional committees concerned with teaching and technology.

When not teaching or writing, Alan spends time programming open-source software, playing with his pets, or dating his wife. Alan lives in Kalamazoo, Michigan, with his wife, Lynda, two cats, bearded dragons, and various other forms of wildlife.



FROM STEPHEN HAAG . . .

Throughout my 17 years of publishing, many people have stood by me and supported my efforts. JD Ice really opened the doors of textbook writing for me. Even though he is no longer my editor, I always strive to the level of excellence to which he challenged me. And David Brake, forever my friend in the publishing world, helped me to understand that textbook writing isn't just a job (or an adventure), but a calling that cannot be ignored.

These past 18 months have also reinforced the notion that people can be both friends and business colleagues. Many times, I tested my relationships with Maeve and Alan. Today, we stand together, strong in our friendships and looking forward to future writing efforts.

Finally, there is my family. My parents (Carl and Iona) are second to none. Pam, my wife, never wavered in her support. Bo and Elvis, who are no longer with us, made me smile. And my three sons—Darian, Trevor, and Indy—offered me unconditional love. If I am not remembered for the books I write, I will be content knowing that I am a good father, husband, and son.

FROM MAEVE CUMMINGS . . .

My sincere gratitude goes to the many people who helped directly and indirectly with this project. Thanks to Melanie Buffington who did lots of copy editing; to Cort Buffington who helped with content; to Felix Dreher for his encouragement; to Barbara Clutter, who was invaluable in handling a myriad of details; and to Chris Fogliasso and Mary Wachter, who provided constant moral support.

Thanks to my coauthors, Steve and Alan, who brought great talent and enthusiasm to the project and are the most wonderful people to work with. Thanks to the hundreds of students whom I have met throughout the years who have changed me for the better in a multitude of ways.

Thanks to my wonderfully supportive family: my parents (Dolores and Steve), sisters (Grainne, Fiona and Clodagh), and brother (Colin). To my husband, Slim, constant and unfaltering as the Rock of Gibraltar, I say "thanks—for everything."

FROM ALAN I REA, JR. . . .

Never have I had the opportunity to work on such an intense project with so many dedicated people. I can't name them all, but I want to thank Gina for her continuous stream of supportive e-mail. I also want to thank Maeve, whose biting wit always allowed us to find humor no matter the situation. Finally, I'd like to thank Stephen for putting his trust in a "rookie." He's been my mentor and friend. I'm a better person for it.

I'd also like to thank my colleagues at Western Michigan University. They've created an environment that encourages a student-centered approach to teaching that allows me to embark on adventures such as writing this textbook.

Finally, I'd like to thank my wife, Lynda. She has been my supporter, critic, and front-line editor. Her contributions to this textbook are too numerous to list. Without her, I never would have made it this far.

FROM THE AUTHOR TEAM . . .

This text is certainly not the sole work of just three authors. Rather, it represents the collective efforts of some of the most skilled and innovative people in the publishing industry today. Dan Silverburg, George Werthman, and Rick Williamson each played key roles in providing guidance and motivation. People like Mary Conzachi, Scott Scheidt, Mary Christianson, and Jen McQueen transformed our ideas into the product you see.

And we wish to acknowledge the reviewers of *The I-Series*. They spent countless hours both criticizing and applauding us. The applause was easy to accept; the criticism often difficult. However, we understand their critical analysis of our material was born out of a true love for education and a desire to see their students succeed. Our reviewers were paid only a fraction of their true worth. Even attempting to measure their significance is futile, at best.

Most importantly, Gina Huck and Melissa Forte not only helped us realize our goal but also forged the very path we traveled. Gina and Melissa gave life to *The I-Series*, from the creation of its name to the development of the product vision that guided our writing. *The I-Series* belongs to them as much as it does anyone. Suffice it to say, they should be listed as authors as well. A million thanks is a million too few.

We welcome any and all feedback from you, our valued customer. Please e-mail us at i-series@ mcgraw-hill.com with any suggestions, corrections or noteworthy additions you want to pass along!

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