

Designing The User Interface Shneiderman 5th Edition

The truly world-wide reach of the Web has brought with it a new realisation of the enormous importance of usability and user interface design. In the last ten years, much has become understood about what works in search interfaces from a usability perspective, and what does not. Researchers and practitioners have developed a wide range of innovative interface ideas, but only the most broadly acceptable make their way into major web search engines. This book summarizes these developments, presenting the state of the art of search interface design, both in academic research and in deployment in commercial systems. Many books describe the algorithms behind search engines and information retrieval systems, but the unique focus of this book is specifically on the user interface. It will be welcomed by industry professionals who design systems that use search interfaces as well as graduate students and academic researchers who investigate information systems.

The much-anticipated fifth edition of *Designing the User Interface* provides a comprehensive, authoritative introduction to the dynamic field of human-computer interaction (HCI). Students and professionals learn practical principles and guidelines needed to develop high quality interface designs—ones that users

can understand, predict, and control. It covers theoretical foundations, and design processes such as expert reviews and usability testing. Numerous examples of direct manipulation, menu selection, and form fill-in give readers an understanding of excellence in design. The new edition provides updates on current HCI topics with balanced emphasis on mobile devices, Web, and desktop platforms. It addresses the profound changes brought by user-generated content of text, photo, music, and video and the raised expectations for compelling user experiences.

Informatics for Health Professionals is an excellent resource to provide healthcare students and professionals with the foundational knowledge to integrate informatics principles into practice.

This Companion offers a thorough, concise overview of the emerging field of humanities computing. Contains 37 original articles written by leaders in the field. Addresses the central concerns shared by those interested in the subject. Major sections focus on the experience of particular disciplines in applying computational methods to research problems; the basic principles of humanities computing; specific applications and methods; and production, dissemination and archiving. Accompanied by a website featuring supplementary materials, standard readings in the field and essays to be included in future editions of the

Companion.

Here's what three pioneers in computer graphics and human-computer interaction have to say about this book: "What a tour de force—everything one would want—comprehensive, encyclopedic, and authoritative." —Jim Foley "At last, a book on this important, emerging area. It will be an indispensable reference for the practitioner, researcher, and student interested in 3D user interfaces." —Andy van Dam "Finally, the book we need to bridge the dream of 3D graphics with the user-centered reality of interface design. A thoughtful and practical guide for researchers and product developers. Thorough review, great examples." —Ben Shneiderman As 3D technology becomes available for a wide range of applications, its successful deployment will require well-designed user interfaces (UIs). Specifically, software and hardware developers will need to understand the interaction principles and techniques peculiar to a 3D environment. This understanding, of course, builds on usability experience with 2D UIs. But it also involves new and unique challenges and opportunities. Discussing all relevant aspects of interaction, enhanced by instructive examples and guidelines, 3D User Interfaces comprises a single source for the latest theory and practice of 3D UIs. Many people already have seen 3D UIs in computer-aided design, radiation therapy, surgical simulation, data visualization, and virtual-

reality entertainment. The next generation of computer games, mobile devices, and desktop applications also will feature 3D interaction. The authors of this book, each at the forefront of research and development in the young and dynamic field of 3D UIs, show how to produce usable 3D applications that deliver on their enormous promise. Coverage includes: The psychology and human factors of various 3D interaction tasks Different approaches for evaluating 3D UIs Results from empirical studies of 3D interaction techniques Principles for choosing appropriate input and output devices for 3D systems Details and tips on implementing common 3D interaction techniques Guidelines for selecting the most effective interaction techniques for common 3D tasks Case studies of 3D UIs in real-world applications To help you keep pace with this fast-evolving field, the book's Web site, www.3dui.org, will offer information and links to the latest 3D UI research and applications.

Using a scientific and engineering approach to human-computer interaction, this text explores the theoretical foundations and the application models that are available for predicting engineering parameters. It covers empirical, predictive, anthropomorphic and cognitive modelling approaches.

Esta enciclopedia presenta numerosas experiencias y discernimientos de profesionales de todo el mundo sobre discusiones y perspectivas de la la

interacción hombre-computadoras

In just over a decade, the Web has evolved from an experimental tool for a limited community of technically inclined people into a day-to-day necessity for millions upon millions of users. Today's Web designers must consider not only the content needs of the sites they create, but also the wide range of additional needs their users may have: for example, those with physical or cognitive disabilities, those with slow modems or small screens, and those with limited education or familiarity with the Web. Bestselling author Sarah Horton argues that simply meeting the official standards and guidelines for Web accessibility is not enough. Her goal is universal usability, and in *Access by Design: A Guide to Universal Usability for Web Designers*, Sarah describes a design methodology that addresses accessibility requirements but then goes beyond. As a result, designers learn how to optimize page designs to work more effectively for more users, disabled or not. Working through each of the main functional features of Web sites, she provides clear principles for using HTML and CSS to deal with elements such as text, forms, images, and tables, illustrating each with an example drawn from the real world. Through these guidelines, Sarah makes a convincing case that good design principles benefit all users of the Web. In this book you will find: Clear principles for using HTML and CSS to design functional

and accessible Web sites Best practices for each of the main elements of Web pages—text, forms, images, tables, frames, links, interactivity, and page layout Seasoned advice for using style sheets that provide flexibility to both designer and user without compromising usability Illustrations of actual Web sites, from which designers can model their own pages Instructions for providing keyboard accessibility, flexible layouts, and user-controlled environments Practical tips on markup, and resources

This groundbreaking book defines the emerging field of information visualization and offers the first-ever collection of the classic papers of the discipline, with introductions and analytical discussions of each topic and paper. The authors' intention is to present papers that focus on the use of visualization to discover relationships, using interactive graphics to amplify thought. This book is intended for research professionals in academia and industry; new graduate students and professors who want to begin work in this burgeoning field; professionals involved in financial data analysis, statistics, and information design; scientific data managers; and professionals involved in medical, bioinformatics, and other areas. Features Full-color reproduction throughout Author power team - an exciting and timely collaboration between the field's pioneering, most-respected names The only book on Information Visualization with the depth necessary for use as a text or as a reference for the information professional Text includes the classic source papers as well as a collection of cutting edge work

Most programmers' fear of user interface (UI) programming comes from their fear of doing UI design. They think that UI design is like graphic design—the mysterious process by which

creative, latte-drinking, all-black-wearing people produce cool-looking, artistic pieces. Most programmers see themselves as analytic, logical thinkers instead—strong at reasoning, weak on artistic judgment, and incapable of doing UI design. In this brilliantly readable book, author Joel Spolsky proposes simple, logical rules that can be applied without any artistic talent to improve any user interface, from traditional GUI applications to websites to consumer electronics. Spolsky's primary axiom, the importance of bringing the program model in line with the user model, is both rational and simple. In a fun and entertaining way, Spolsky makes user interface design easy for programmers to grasp. After reading *User Interface Design for Programmers*, you'll know how to design interfaces with the user in mind. You'll learn the important principles that underlie all good UI design, and you'll learn how to perform usability testing that works.

In *Human-Centered AI*, Professor Ben Shneiderman provides an optimistic realist's guide to how artificial intelligence can be used to augment and enhance humans' lives. Five years and more than 100,000 copies after it was first published, it's hard to imagine anyone working in Web design who hasn't read Steve Krug's "instant classic" on Web usability, but people are still discovering it every day. In this second edition, Steve adds three new chapters in the same style as the original: wry and entertaining, yet loaded with insights and practical advice for novice and veteran alike. Don't be surprised if it completely changes the way you think about Web design. Three New Chapters! Usability as common courtesy -- Why people really leave Web sites Web Accessibility, CSS, and you -- Making sites usable and accessible Help! My boss wants me to _____. -- Surviving executive design whims "I thought usability was the enemy of design until I read the first edition of this book. Don't Make Me

Think! showed me how to put myself in the position of the person who uses my site. After reading it over a couple of hours and putting its ideas to work for the past five years, I can say it has done more to improve my abilities as a Web designer than any other book. In this second edition, Steve Krug adds essential ammunition for those whose bosses, clients, stakeholders, and marketing managers insist on doing the wrong thing. If you design, write, program, own, or manage Web sites, you must read this book." -- Jeffrey Zeldman, author of Designing with Web Standards

Cognetics and the locus of attention - Meanings, modes, monotony, and myths - Quantification - Unification - Navigation and other aspects of humane interfaces - Interface issues outside the user interface.

Career Management for Life provides students and employees with an integrative approach to managing their careers on an ongoing basis to achieve a satisfying balance between their work and their family responsibilities, community involvement, and personal interests. The career management model guides individuals through the different phases of their career from figuring out what their first job should be right to navigating the road to retirement. Expert authors Greenhaus, Callanan, and Godshalk bring their wealth of research experience to the book and demonstrate the individual and organizational sides of career management, allowing an appreciation of both. This material is well balanced by a set of practical tools, including self-assessments, case studies, and recommended interviews. The new edition also includes: An emphasis on attaining work-life balance, a topic that is of growing concern to workers at all stages of their careers. An updated focus on today's career contexts and stages. Material on technology and social media, now integrated throughout the book, to reflect the growing

importance of these tools in career management and development. A chapter on international careers, helping individuals face a globalized world. Greater emphasis on alternative career paths, reflecting the newest trends and helping individuals understand all the different career options available to them. This rich and engaging book will help individuals understand themselves better, which in turn allows them to understand what they really want out of their career. Those taking (or offering) classes in career management or career development will come to rely on this book for years to follow.

This is both the first authoritative treatment of OOUi and a book which will help designers, developers, analysts, and many others understand and apply object-oriented analysis to user interfaces. Collins delivers a single conceptual model to guide both external and internal design of the user interface. A set of figures, examples, and case studies illustrates the development of new applications and functions & --both stand-alone and integrated & --with existing environments. Throughout, the methodology is grounded in object-oriented principles that are consistent with other object-oriented methodologies for system and database design. Universal Usability: Past, Present, and Future surveys the state-of-the-art of human-computer interaction research into the design and development of interfaces that will be easy to use for users of all levels of technical experience ability. It also presents some future directions for work in this area.

Digital Divide (DD) is a term that defines the division between people, communities, states, countries, etc. with respect to the access to the new Information and Communication Technologies (ICTs). Nowadays, it is essential to have technological

skills to work in a variety of jobs (i. e. administration, education, etc.). Moreover, ICTs have become ubiquitous and they affect almost every aspect of our daily life. The way in which people face the task of using ICTs varies depending on a plethora of variables. The most analysed ones are the technological literacy and the educational level. These are two very important factors that strongly affect the success of the individuals in accessing ICTs. Unfortunately, these are not the only variables to consider. Some people suffer from mental and physical disabilities that are real impediments to access ICTs, and they must be studied in detail. How can we help disabled people to access ICTs? Can public telecentres deal with this task? Can the ICTs be used to improve the accessibility of disabled people? Which projects aim to reduce the digital divide? Are they addressed to disabled people? These are some of the questions that we will try to answer, at least partially, in this chapter. We believe that governments must invest to avert the DD, but they are not the only actors involved in this scenario.

For courses in Human-Computer Interaction The Sixth Edition of Designing the User Interface provides a comprehensive, authoritative, and up-to-date introduction to the dynamic field of human-computer interaction (HCI) and user experience (UX) design. This classic book has defined and charted the astonishing evolution of user interfaces for three decades. Students and professionals learn practical principles and guidelines needed to develop high quality interface designs that users can understand, predict, and control. The book covers theoretical foundations and design processes such as

expert reviews and usability testing. By presenting current research and innovations in human-computer interaction, the authors strive to inspire students, guide designers, and provoke researchers to seek solutions that improve the experiences of novice and expert users, while achieving universal usability. The authors also provide balanced presentations on controversial topics such as augmented and virtual reality, voice and natural language interfaces, and information visualisation. Updates include current HCI design methods, new design examples, and totally revamped coverage of social media, search and voice interaction. Major revisions were made to EVERY chapter, changing almost every figure (170 new colour figures) and substantially updating the references. Designing the User Interface Strategies for Effective Human-computer Interaction Addison Wesley Publishing Company

Although recent findings show the public increasingly interacting with government Web sites, a common problem is that people can't find what they're looking for. In other words, the sites lack usability. The Research-Based Web Design and Usability Guidelines aid in correcting this problem by providing the latest Web design guidance from the research and other forms of evidence. This unique publication has been updated from its earlier version to include over 40 new or updated research guidelines, bringing the total to 209. Primary audiences for the book are: Web managers, designers, and all staff involved in the creation of Web sites. Topics in the book include: home page design, page and site navigation, graphics and images, effective Web

content writing, and search. A new section on usability testing guidance has been added. Experts from across government, industry, and academia have reviewed and contributed to the development of the Guidelines. And, since their introduction in 2003, the Guidelines have been widely used by government, private, and academic institutions to improve Web design.

Universal Usability is the concept of designing computer interfaces that are easy for all users to utilize. It is a concept which many decry as elusive, impossible, or impractical, but this book, which addresses usability issues for a number of diverse user groups, proves that there is no problem in interface design that cannot be solved, or at least improved upon. Individuals with cognitive, motor, and perceptual impairments, as well as older, younger, and economically disadvantaged users, face a variety of complex challenges when interacting with computers. However, with user involvement, good design practice, and thorough testing, computer interfaces can be successfully developed for any user population. This book, featuring key chapters by Human-Computer Interaction luminaries such as Jonathan Lazar, Ron Baecker, Allison Druin, Ben Shneiderman, Brad Myers and Jenny Preece, examines innovative and groundbreaking research and practice, and provides a practical overview of a number of successful projects which have addressed a need for these specific user populations. Chapters in this book address topics including age diversity, economic diversity, language diversity, visual impairment, and spinal cord injuries. Several of these

trailblazing projects in the book are amongst the first to examine usability issues for users with Down Syndrome, users with Amnesia, users with Autism Spectrum Disorders, and users with Alzheimer's Disease, and coverage extends to projects where multiple categories of needs are addressed. These chapters represent real-world projects, being carried out on different continents. The authors of the chapters also represent diversity—interface researchers and software developers in university, industrial, and government settings. In the practical spirit of the book, chapter authors provide guidelines and suggestions for those attempting similar projects, as well as implications for different stakeholders such as policymakers, researchers, and designers. Ideal for students of HCI and User Interface Design, and essential reading for usability practitioners, this fascinating collection of real-world projects demonstrates that computer interfaces can truly be designed to meet the needs of any category of user.

The effectiveness of the user-computer interface has become increasingly important as computer systems have become useful tools for persons not trained in computer science. In fact, the interface is often the most important factor in the success or failure of any computer system. Dealing with the numerous subtly interrelated issues and technical, behavioral, and aesthetic considerations consumes a large and increasing share of development time and a corresponding percentage of the total code for any given application. A revision of one of the most successful books on human-computer

interaction, this compilation gives students, researchers, and practitioners an overview of the significant concepts and results in the field and a comprehensive guide to the research literature. Like the first edition, this book combines reprints of key research papers and case studies with synthesizing survey material and analysis by the editors. It is significantly reorganized, updated, and enhanced; over 90% of the papers are new. An invaluable resource for systems designers, cognitive scientists, computer scientists, managers, and anyone concerned with the effectiveness of user-computer interfaces, it is also designed for use as a primary or supplementary text for graduate and advanced undergraduate courses in human-computer interaction and interface design. Human computer interaction--historical, intellectual, and social Developing interactive systems, including design, evaluation methods, and development tools The interaction experience, through a variety of sensory modalities including vision, touch, gesture, audition, speech, and language Theories of information processing and issues of human-computer fit and adaptation

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Motivation for a psychological approach; Research methods; Programming as human

performance; Programming style; Software quality evaluation; Team organizations and group processes; Database systems and data models; Database query and manipulation languages; Natural language; Interactive interface issues; Designing interactive systems.

Using the inspiration of Leonardo da Vinci to build a new, humanistic computing that focuses on users' needs and goals.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The much-anticipated fifth edition of *Designing the User Interface* provides a comprehensive, authoritative introduction to the dynamic field of human-computer interaction (HCI). Students and professionals learn practical principles and guidelines needed to develop high quality interface designs—ones that users can understand, predict, and control. It covers theoretical foundations, and design processes such as expert reviews and usability testing. Numerous examples of direct manipulation, menu selection, and form fill-in give readers an understanding of excellence in design. The new edition provides updates on current HCI topics with balanced emphasis on mobile devices, Web, and desktop platforms. It addresses the profound changes brought by user-generated content of text, photo, music, and video and the raised expectations for compelling user

experiences. Provides a broad survey of designing, implementing, managing, maintaining, training, and refining the user interface of interactive systems. Describes practical techniques and research-supported design guidelines for effective interface designs Covers both professional applications (e.g. CAD/CAM, air traffic control) and consumer examples (e.g. web services, e-government, mobile devices, cell phones, digital cameras, games, MP3 players) Delivers informative introductions to development methodologies, evaluation techniques, and user-interface building tools. Supported by an extensive array of current examples and figures illustrating good design principles and practices. Includes dynamic, full-color presentation throughout. Guides students who might be starting their first HCI design project Accompanied by a Companion Website with additional practice opportunities and informational resources for both students and professors.

If you are in charge of the user experience, development, or strategy for a web site, A Web for Everyone will help you make your site accessible without sacrificing design or innovation. Rooted in universal design principles, this book provides solutions: practical advice and examples of how to create sites that everyone can use.

"Hackos and Redish wisely offer us the three things we most need about user

and task analysis: practical advice, practical advice, and practical advice." -Ben Shneiderman, University of Maryland "This book is well written, thorough, and loaded with techniques, examples, and resources that bring analysis to everyone." -Marcia L. Conner, Director of Usability & Learnability PeopleSoft, Inc. User and Task Analysis for Interface Design helps you design a great user interface by focusing on the most important step in the process -the first one. You learn to go out and observe your users at work, whether they are employees of your company or people in customer organizations. You learn to find out what your users really need, not by asking them what they want, but by going through a process of understanding what they are trying to accomplish. JoAnn Hackos and Janice (Ginny) Redish, internationally known experts in usable design, take you through a step-by-step process to conduct a user and task analysis. You learn: * How interface designers use user and task analysis to build successful interfaces * Why knowledge of users, their tasks, and their environments is critical to successful design * How to prepare and set up your site visits * How to select and train your user and task analysis team * What observations to make, questions to ask, and questions to avoid * How to record and report what you have learned to your development team members * How to turn the information you've gathered into design ideas * How to create paper prototypes of your

interface design * How to conduct usability tests with your prototypes to find out if you're on the right track. This book includes many examples of design successes and challenges for products of every kind.

Analyzing Social Media Networks with NodeXL offers backgrounds in information studies, computer science, and sociology. This book is divided into three parts: analyzing social media, NodeXL tutorial, and social-media network analysis case studies. Part I provides background in the history and concepts of social media and social networks. Also included here is social network analysis, which flows from measuring, to mapping, and modeling collections of connections. The next part focuses on the detailed operation of the free and open-source NodeXL extension of Microsoft Excel, which is used in all exercises throughout this book. In the final part, each chapter presents one form of social media, such as e-mail, Twitter, Facebook, Flickr, and Youtube. In addition, there are descriptions of each system, the nature of networks when people interact, and types of analysis for identifying people, documents, groups, and events. Walks you through NodeXL, while explaining the theory and development behind each step, providing takeaways that can apply to any SNA Demonstrates how visual analytics research can be applied to SNA tools for the mass market Includes case studies from researchers who use NodeXL on popular networks like email, Facebook,

Twitter, and wikis Download companion materials and resources at <https://nodexl.codeplex.com/documentation>

The wait for the year 2000 was marked by the fear of possible bugs that might have arisen at its beginning. One additional fear we had during this wait was whether - ganising this event would have generated a boon or another bug. The reasons for this fear originated in the awareness that the design of interactive systems is a fast moving area. The type of research work presented at this unique event has received limited support from funding agencies and industries making it more difficult to keep up with the rapid technological changes occurring in interaction technology. However, despite our fear, the workshop was successful because of the high-quality level of participation and discussion. Before discussing such results, let us step back and look at the evolution of DSV- IS (Design, Specification and Verification of Interactive Systems), an international wo- shop that has been organised every year since 1994. The first books that addressed this issue in a complete and thorough manner were the collection of contributions edited by Harrison and Thimbleby and the book written by Alan Dix, which focused on abstractions useful to highlight important concepts in the design of interactive systems. Since then, this area has attracted the interest of a wider number of research groups, and some workshops on related topics started

to be organised. DSV-IS had its origins in this spreading and growing interest. The first workshop was held in a monastery located in the hills above Bocca di Magra (Italy).

The problems we face in the 21st century require innovative thinking from all of us. Be it students, academics, business researchers or government policy makers. Hopes for improving our healthcare, food supply, community safety and environmental sustainability depend on the pervasive application of research solutions. The research heroes who take on the immense problems of our time face bigger than ever challenges, but if they adopt potent guiding principles and effective research lifecycle strategies, they can produce the advances that will enhance the lives of many people. These inspirational research leaders will break free from traditional thinking, disciplinary boundaries, and narrow aspirations. They will be bold innovators and engaged collaborators, who are ready to lead, yet open to new ideas, self-confident, yet empathetic to others. In this book, Ben Shneiderman recognizes the unbounded nature of human creativity, the multiplicative power of teamwork, and the catalytic effects of innovation. He reports on the growing number of initiatives to promote more integrated approaches to research so as to promote the expansion of these efforts. It is meant as a guide to students and junior researchers, as well as a manifesto for

senior researchers and policy makers, challenging widely-held beliefs about how applied innovations evolve and how basic breakthroughs are made, and helping to plot the course towards tomorrow's great advancements.

Completely revised and updated, *Computer Systems, Fourth Edition* offers a clear, detailed, step-by-step introduction to the central concepts in computer organization, assembly language, and computer architecture. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780321537355 .

The authors in this work focus on and explore human computer interaction (HCI) by bringing together the best practice and experience from HCI and interaction design.

The 13th International Conference on Human–Computer Interaction, HCI International 2009, was held in San Diego, California, USA, July 19–24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human–Computer Interaction, the Third International Conference on Virtual and Mixed Reality,

the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Augmented Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers address the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in the knowledge and effective use of computers in a variety of application areas.

The huge success of personal computing technologies has brought astonishing benefits to individuals, families, communities, businesses, and government, transforming human life, largely for the better. These democratizing transformations happened because a small group of researchers saw the opportunities to convert sophisticated computational tools into appealing personal devices offering valued services by way of easy-to-use interfaces. Along the way, there were challenges to their agenda of human-centered design by: (1) traditional computer scientists who were focused on computation rather than people-oriented services and (2) those who sought to build anthropomorphic agents or robots based on excessively autonomous scenarios. The easy-to-learn and easy-to-use interfaces based on direct manipulation became the dominant form of interaction for more than six billion people. This book gives my personal history of the intellectual arguments and the key personalities I

encountered. I believe that the lessons of how the discipline of Human-Computer Interaction (HCI) and the profession of User Experience Design (UXD) were launched can guide others in forming new disciplines and professions. The stories and photos of the 60 HCI pioneers, engaged in discussions and presentations, capture the human drama of collaboration and competition that invigorated the encounters among these bold, creative, generous, and impassioned individuals.

This substantial revision expands upon the first edition's broad coverage of key topics in the field of user interface design. The second edition highlights major issues in human factors, and combines descriptions of theoretical underpinnings with practical applications.

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