

# Designing Interfaces Patterns For Effective Interaction Design Jenifer Tidwell

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## ALEXANDER SHANNON

**Designing Voice User Interfaces** New Riders  
 Ironically, many designers of graphical user interfaces are not always aware of the fundamental design rules and techniques that are applied routinely by other practitioners of communication-oriented visual design -- techniques that can be used to enhance the visual quality of GUIs, data displays, and multimedia documents. This volume focuses on design rules and techniques that are drawn from the rational, functionalist design aesthetic seen in modern graphic design, industrial design, interior design, and architecture -- and applies them to various graphical user interface problems experienced in commercial software development. Describes the basic design principles (the what and why), common errors, and practical step-by-step techniques (the how) in each of six major areas: elegance and simplicity; scale, contrast, and proportion; organization and visual structure; module and program; image and representation; and style. Focuses on techniques that will not only improve the aesthetics of the visual display, but, because they promote visual organization, clarity, and conciseness, will also enhance the usability of the product. Includes a catalog of common errors drawn from existing GUI applications and environments to illustrate practices that should be avoided in developing applications. For anyone responsible for designing, specifying, implementing, documenting, or managing the visual appearance of computer-based information displays.

**Interface-oriented Design** "O'Reilly Media, Inc."  
 Designing Interfaces Patterns for Effective Interaction Design "O'Reilly Media, Inc."

**Designing the User Interface** Morgan Kaufmann  
 In this completely updated and revised edition of *Designing with the Mind in Mind*, Jeff Johnson provides you with just enough background in perceptual and cognitive psychology that user interface (UI) design guidelines make intuitive sense rather than being just a list or rules to follow. Early UI practitioners were trained in cognitive psychology, and developed UI design rules based on it. But as the field has evolved since the first edition of this book, designers enter the field from many disciplines. Practitioners today have enough experience in UI design that they have been exposed to design rules, but it is essential that they understand the psychology behind the rules in order to effectively apply them. In this new edition, you'll find new chapters on human choice and decision making, hand-eye coordination and attention, as well as new examples, figures, and explanations

throughout. Provides an essential source for user interface design rules and how, when, and why to apply them Arms designers with the science behind each design rule, allowing them to make informed decisions in projects, and to explain those decisions to others Equips readers with the knowledge to make educated tradeoffs between competing rules, project deadlines, and budget pressures Completely updated and revised, including additional coverage on human choice and decision making, hand-eye coordination and attention, and new mobile and touch-screen examples throughout

**Mobile Design Pattern Gallery** Rosenfeld Media  
 "Through discussion with cutting-edge designers and thinkers and with international examples, the authors explain how we need an expanded aesthetic, critical and ethical awareness on the part of designers willing to act with sensitivity and understanding towards the people they design for. Included are interviews with leading practitioners and clear explanations of high-level concepts"--

**Patterns for Effective Interaction Design** "O'Reilly Media, Inc."

Publisher description.  
**Designing Gestural Interfaces** "O'Reilly Media, Inc."  
 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](http://www.3dui.org), will offer information and links to the latest 3D UI research and applications.

**Designing Interface Animation** Design Essentials  
 The truly world-wide reach of the Web has brought with it a new realization 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.

**Why We Love (or Hate) Everyday Things** "O'Reilly Media, Inc."  
 Designing a good interface isn't easy. Users demand software that is well-behaved, good-looking, and easy to use. Your clients or managers demand originality and a short time to market. Your UI technology -- web applications, desktop software, even mobile devices -- may give you the tools you need, but little guidance on how to use them well. UI designers over the years have refined the art of interface design, evolving many best practices and reusable ideas. If you learn these, and understand why the best user interfaces work so well, you too can design engaging and usable interfaces with less guesswork and more confidence. *Designing Interfaces* captures those best practices as design patterns -- solutions to common design problems, tailored to the situation at hand. Each pattern contains practical advice that you can put to use immediately, plus a variety of examples illustrated in full color. You'll get recommendations, design alternatives, and warnings when not to use them. Each chapter's introduction describes key design concepts that are often misunderstood, such

as affordances, visual hierarchy, navigational distance, and the use of color. These give you a deeper understanding of why the patterns work, and how to apply them with more insight. A book can't design an interface for you -- no foolproof design process is given here -- but *Designing Interfaces* does give you concrete ideas that you can mix and recombine as you see fit. Experienced designers can use it as a sourcebook of ideas. Novice designers will find a roadmap to the world of interface and interaction design, with enough guidance to start using these patterns immediately.

*A Complete Guide to Creating Value through Journeys, Blueprints, and Diagrams* "O'Reilly Media, Inc."

Designers, developers, and entrepreneurs today must grapple with creating social interfaces to foster user interaction and community, but grasping the nuances and the building blocks of the digital social experience is much harder than it appears. Now you have help. In the second edition of this practical guide, UX design experts Christian Crumlish and Erin Malone share hard-won insights into what works, what doesn't, and why. With more than 100 patterns, design principles, and best practices, you'll learn how to balance opposing forces and grow healthy online communities by co-creating the experience with your users. Understand the overarching principles before applying tactical design patterns Cultivate healthy participation and rein in misbehaving users Learn patterns for adding social components to an existing site Encourage users to interact with one another, whether it's one-to-one or many-to-many Use a rating system to build a social experience around products or services Orchestrate collaborative groups and discover the real power of social networks Explore numerous examples of each pattern, with an emphasis on mobile apps Learn how to apply social design patterns to enterprise environments

*Designing Interfaces* Elsevier

With hundreds of thousands of mobile applications available today, your app has to capture users immediately. This book provides practical techniques to help you catch—and keep—their attention. You'll learn core principles for designing effective user interfaces, along with a set of common patterns for interaction design on all types of mobile devices. Mobile design specialists Steven Hoober and Eric Berkman have collected and researched 76 best practices for everything from composing pages and displaying information to the use of screens, lights, and sensors. Each pattern includes a discussion of the design problem and solution, along with variations, interaction and presentation details, and antipatterns. Compose pages so that information is easy to locate and manipulate Provide labels and visual cues appropriate for your app's users Use information control widgets to help users quickly access details Take advantage of gestures and other sensors Apply specialized methods to prevent errors and the loss of user-entered data Enable users to easily make selections, enter text, and manipulate controls Use screens, lights, haptics, and sounds to communicate your message and increase user satisfaction "Designing Mobile Interfaces is another stellar addition to O'Reilly's essential interface books. Every mobile designer will want to have this thorough book on their shelf for reference." —Dan Saffer, Author of *Designing Gestural Interfaces*

*Designing Interfaces* Pearson

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.

**Designing Connected Content** "O'Reilly Media, Inc."

Designing good application interfaces isn't easy now that companies need to create compelling, seamless user experiences across an exploding number of channels, screens, and contexts. In this updated third edition, you'll learn how to navigate through the maze of design options. By capturing UI best practices as

design patterns, this best-selling book provides solutions to common design problems. You'll learn patterns for mobile apps, web applications, and desktop software. Each pattern contains full-color examples and practical design advice you can apply immediately. Experienced designers can use this guide as an idea sourcebook, and novices will find a road map to the world of interface and interaction design. Understand your users before you start designing Build your software's structure so it makes sense to users Design components to help users complete tasks on any device Learn how to promote wayfinding in your software Place elements to guide users to information and functions Learn how visual design can make or break product usability Display complex data with artful visualizations

*Filling in the Blanks* "O'Reilly Media, Inc."

Using research in neurobiology, cognitive science and learning theory, this text loads patterns into your brain in a way that lets you put them to work immediately, makes you better at solving software design problems, and improves your ability to speak the language of patterns with others on your team.

**Touchscreens and Interactive Devices** "O'Reilly Media, Inc."

Why attractive things work better and other crucial insights into human-centered design Emotions are inseparable from how we humans think, choose, and act. In *Emotional Design*, cognitive scientist Don Norman shows how the principles of human psychology apply to the invention and design of new technologies and products. In *The Design of Everyday Things*, Norman made the definitive case for human-centered design, showing that good design demanded that the user's must take precedence over a designer's aesthetic if anything, from light switches to airplanes, was going to work as the user needed. In this book, he takes his thinking several steps farther, showing that successful design must incorporate not just what users need, but must address our minds by attending to our visceral reactions, to our behavioral choices, and to the stories we want the things in our lives to tell others about ourselves. Good human-centered design isn't just about making effective tools that are straightforward to use; it's about making affective tools that mesh well with our emotions and help us express our identities and support our social lives. From roller coasters to robots, sports cars to smart phones, attractive things work better. Whether designer or consumer, user or inventor, this book is the definitive guide to making Norman's insights work for you.

*Designing with the Mind in Mind* New Riders

Talking to people about your designs might seem like a basic skill, but it can be difficult to do efficiently and well. And, in many cases, how you communicate about your work with stakeholders, clients, and other non-designers is more critical than the designs themselves—simply because the most articulate person usually wins. This practical guide focuses on principles, tactics, and actionable methods for presenting your designs. Whether you design UX, websites, or products, you'll learn how to win over anyone who has influence over the project—with the goal of creating the best experience for the end user. Walk through the process of preparing for and presenting your designs Understand stakeholder perspectives, and learn how to empathize with them Cultivate both implicit and explicit listening skills Learn tactics and formulas for expressing the most effective response to feedback Discover why the way you follow through is just as crucial as the meeting itself Educate your stakeholders by sharing the chapter from this book on how to work with designers

**Plan and Model Digital Products for Today and Tomorrow**

*Designing Interfaces* Patterns for Effective Interaction Design 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.

**A Crash Course in 100 Short Lessons** Basic Books

Provides information on designing effective interfaces.

*Coordinating User Interfaces for Consistency* "O'Reilly Media, Inc."

It's the little things that turn a good digital product into a great one. With this practical book, you'll learn how to design effective microinteractions: the small details that exist inside and around features. How can users change a setting? How do they turn on mute, or know they have a new email message? Through vivid, real-world examples from today's devices and applications, author Dan Saffer walks you through a microinteraction's essential parts, then shows you how to use them in a mobile app, a web widget, and an appliance. You'll quickly discover how microinteractions can change a product from one that's tolerated into one that's treasured. Explore a microinteraction's structure: triggers, rules, feedback, modes, and loops Learn the types of triggers that initiate a microinteraction Create simple rules that define how your microinteraction can be used Help users understand the rules with feedback, using graphics, sounds, and vibrations Use modes to let users set preferences or modify a microinteraction Extend a microinteraction's life with loops, such as "Get data every 30 seconds"

**Principles and Patterns for Rich Interactions** "O'Reilly Media, Inc."

How can you create products that successfully find customers? With this practical book, you'll learn from some of the best product designers in the field, from companies like Facebook and LinkedIn to up-and-coming contenders. You'll understand how to discover and interpret customer pain, and learn how to use this research to guide your team through each step of product creation. Written for designers, product managers, and others who want to communicate better with designers, this book is essential reading for anyone who contributes to the product creation process. Understand exactly who your customers are, what they want, and how to build products that make them happy Learn frameworks and principles that successful product designers use Incorporate five states into every screen of your interface to improve conversions and reduce perceived loading times Discover meeting techniques that Apple, Amazon, and LinkedIn use to help teams solve the right problems and make decisions faster Design effective interfaces across different form factors by understanding how people hold devices and complete tasks Learn how successful designers create working prototypes that capture essential customer feedback Create habit-forming and emotionally engaging experiences, using the latest psychological research

*Designing with Aesthetic and Ethical Awareness* Prentice Hall

A catalog of solutions to commonly occurring design problems, presenting 23 patterns that allow designers to create flexible and reusable designs for object-oriented software. Describes the circumstances in which each pattern is applicable, and discusses the consequences and trade-offs of using the pattern within a larger design. Patterns are compiled from real systems, and include code for implementation in object-oriented programming languages like C++ and Smalltalk. Includes a bibliography. Annotation copyright by Book News, Inc., Portland, OR

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