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Introduction To Information Graphics And
Visualization

The Functional Art An Introduction To Information Graphics And Visualization

Now more than ever, content must be visual if it is to travel far. Readers everywhere are overwhelmed with a flow of data, news, and text. Visuals can cut through the noise and make it easier for readers to recognize and recall information. Yet many researchers were never taught how to present their work visually. This book details essential strategies

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to create more effective data visualizations.

Jonathan Schwabish walks readers through the steps of creating better graphs and how to move beyond simple line, bar, and pie charts. Through more than five hundred examples, he demonstrates the do's and don'ts of data visualization, the principles of visual perception, and how to make subjective style decisions around a chart's design. Schwabish surveys more than eighty visualization types, from histograms to horizon charts, ridgeline plots to choropleth maps, and explains how each has its place in the visual toolkit. It might seem

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intimidating, but everyone can learn how to create compelling, effective data visualizations. This book will guide you as you define your audience and goals, choose the graph that best fits for your data, and clearly communicate your message.

A New York Times Bestseller A Washington Post Notable Nonfiction Book of 2020 Named a Best Book of 2020 by NPR “A fascinating scientific, cultural, spiritual and evolutionary history of the way humans breathe—and how we’ve all been doing it wrong for a long, long time.” —Elizabeth Gilbert, author of Big Magic and Eat Pray Love No matter

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what you eat, how much you exercise, how skinny or young or wise you are, none of it matters if you're not breathing properly. There is nothing more essential to our health and well-being than breathing: take air in, let it out, repeat twenty-five thousand times a day. Yet, as a species, humans have lost the ability to breathe correctly, with grave consequences. Journalist James Nestor travels the world to figure out what went wrong and how to fix it. The answers aren't found in pulmonology labs, as we might expect, but in the muddy digs of ancient burial sites, secret Soviet facilities, New Jersey choir

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schools, and the smoggy streets of São Paulo. Nestor tracks down men and women exploring the hidden science behind ancient breathing practices like Pranayama, Sudarshan Kriya, and Tummo and teams up with pulmonary tinkerers to scientifically test long-held beliefs about how we breathe. Modern research is showing us that making even slight adjustments to the way we inhale and exhale can jump-start athletic performance; rejuvenate internal organs; halt snoring, asthma, and autoimmune disease; and even straighten scoliotic spines. None of this should be possible, and yet it is. Drawing on

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thousands of years of medical texts and recent cutting-edge studies in pulmonology, psychology, biochemistry, and human physiology, Breath turns the conventional wisdom of what we thought we knew about our most basic biological function on its head. You will never breathe the same again. Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of

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systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also

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available through the book's supporting website to help course instructors prepare their lectures.

Effective visualization is the best way to communicate information from the increasingly large and complex datasets in the natural and social sciences. But with the increasing power of visualization software today, scientists, engineers, and business analysts often have to navigate a bewildering array of visualization choices and options. This practical book takes you through many commonly encountered visualization problems, and it provides guidelines on how to turn large datasets

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into clear and compelling figures. What visualization type is best for the story you want to tell? How do you make informative figures that are visually pleasing? Author Claus O. Wilke teaches you the elements most critical to successful data visualization. Explore the basic concepts of color as a tool to highlight, distinguish, or represent a value Understand the importance of redundant coding to ensure you provide key information in multiple ways Use the book's visualizations directory, a graphical guide to commonly used types of data visualizations Get extensive examples of good and bad figures

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Learn how to use figures in a document or report and how employ them effectively to tell a compelling story

"This is a book about what the science of perception can tell us about visualization. There is a gold mine of information about how we see to be found in more than a century of work by vision researchers. The purpose of this book is to extract from that large body of research literature those design principles that apply to displaying information effectively"--

Visual Language for Designers

Fundamentals of Data Visualization

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Better Data Visualizations

Aesthetic Creation

Effects of Innovative Processing Techniques

Cool Infographics

Visual Perception

*Introduction to Art: Design, Context,
and Meaning offers a comprehensive
introduction to the world of Art.*

*Authored by four USG faculty members
with advance degrees in the arts, this
textbooks offers up-to-date original
scholarship. It includes over 400 high-*

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quality images illustrating the history of art, its technical applications, and its many uses. Combining the best elements of both a traditional textbook and a reader, it introduces such issues in art as its meaning and purpose; its meaning and purpose; its structure, material, and form; and its diverse effects on our lives. Its digital nature allows students to follow links to applicable sources and videos, expanding the students' educational

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experiences beyond the textbook.

*Introduction to Art: Design, Context,
and Meaning provides a new and free
alternative to traditional textbooks,
making it an invaluable resource in our
modern age of technology and
advancement.*

*Make information memorable with
creative visual design techniques
Research shows that visual information
is more quickly and easily understood,
and much more likely to be remembered.*

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This innovative book presents the design process and the best software tools for creating infographics that communicate. Including a special section on how to construct the increasingly popular infographic resume, the book offers graphic designers, marketers, and business professionals vital information on the most effective ways to present data. Explains why infographics and data visualizations work Shares the tools and techniques

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*for creating great infographics Covers
online infographics used for marketing,
including social media and search engine
optimization (SEO) Shows how to market
your skills with a visual,
infographic resume Explores the many
internal business uses of
infographics, including board meeting
presentations, annual reports,
consumer research statistics, marketing
strategies, business plans, and visual
explanations of products and services*

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to your customers With Cool Infographics, you'll learn to create infographics to successfully reach your target audience and tell clear stories with your data. One of the "six best books for data geeks" - Financial Times With over 200 images and extensive how-to and how-not-to examples, this new edition has everything students and scholars need to understand and create effective data visualisations. Combining 'how to

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think' instruction with a 'how to produce' mentality, this book takes readers step-by-step through analysing, designing, and curating information into useful, impactful tools of communication. With this book and its extensive collection of online support, readers can: - Decide what visualisations work best for their data and their audience using the chart gallery - See data visualisation in action and learn the tools to try it

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themselves - Follow online checklists, tutorials, and exercises to build skills and confidence - Get advice from the UK's leading data visualisation trainer on everything from getting started to honing the craft. Explore more resources about data visualisation and Andy Kirk.

This fast-moving tutorial introduces you to OCaml, an industrial-strength programming language designed for expressiveness, safety, and speed.

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Through the book's many examples, you'll quickly learn how OCaml stands out as a tool for writing fast, succinct, and readable systems code. Real World OCaml takes you through the concepts of the language at a brisk pace, and then helps you explore the tools and techniques that make OCaml an effective and practical tool. In the book's third section, you'll delve deep into the details of the compiler toolchain and OCaml's simple and

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efficient runtime system. Learn the foundations of the language, such as higher-order functions, algebraic data types, and modules Explore advanced features such as functors, first-class modules, and objects Leverage Core, a comprehensive general-purpose standard library for OCaml Design effective and reusable libraries, making the most of OCaml's approach to abstraction and modularity Tackle practical programming problems from command-line parsing to

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*asynchronous network programming
Examine profiling and interactive
debugging techniques with tools such as
GNU gdb*

*A leading data visualization expert
explores the negative—and
positive—influences that charts have on
our perception of truth. We've all
heard that a picture is worth a
thousand words, but what if we don't
understand what we're looking at?
Social media has made charts,*

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infographics, and diagrams ubiquitous—and easier to share than ever. We associate charts with science and reason; the flashy visuals are both appealing and persuasive. Pie charts, maps, bar and line graphs, and scatter plots (to name a few) can better inform us, revealing patterns and trends hidden behind the numbers we encounter in our lives. In short, good charts make us smarter—if we know how to read them. However, they can also lead us

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astray. Charts lie in a variety of ways—displaying incomplete or inaccurate data, suggesting misleading patterns, and concealing uncertainty—or are frequently misunderstood, such as the confusing cone of uncertainty maps shown on TV every hurricane season. To make matters worse, many of us are ill-equipped to interpret the visuals that politicians, journalists, advertisers, and even our employers present each day, enabling bad actors to easily

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manipulate them to promote their own agendas. In How Charts Lie, data visualization expert Alberto Cairo teaches us to not only spot the lies in deceptive visuals, but also to take advantage of good ones to understand complex stories. Public conversations are increasingly propelled by numbers, and to make sense of them we must be able to decode and use visual information. By examining contemporary examples ranging from election-result

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infographics to global GDP maps and box-office record charts, How Charts Lie demystifies an essential new literacy, one that will make us better equipped to navigate our data-driven world.

Functional programming for the masses

Information Visualization

An Introduction to Aesthetics

Breath

Introduction to Functional Data

Analysis

The FlowingData Guide to Design,

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Visualization, and Statistics

A Primer on Making Informative and Compelling Figures

Providing a simple - but not simplistic - introduction to the Systemic Functional Grammar (SFG) of English, this book serves as a launching pad for the beginning student and a review for the more seasoned linguist. With an introduction to SFG through lexicogrammar and the concept of rankshift, this book is the first introduction to SFG (including Appraisal) with examples exclusively sourced from twenty-first century texts. Written for those learning English and English linguistics as a foreign language, this serves as an easy-to-read introduction or refresher course for Systemic

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Functional Linguistics.

A new edition of this bestselling introduction to aesthetics and the philosophy of art. Includes new sections on digital music and environmental aesthetics. All other chapters have been thoroughly revised and updated.

Practical data design tips from a data visualization expert of the modern age Data doesn't decrease; it is ever-increasing and can be overwhelming to organize in a way that makes sense to its intended audience. Wouldn't it be wonderful if we could actually visualize data in such a way that we could maximize its potential and tell a story in a clear, concise manner? Thanks to the creative genius of Nathan Yau, we can. With this full-color book, data visualization guru and author Nathan Yau uses step-by-step

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tutorials to show you how to visualize and tell stories with data. He explains how to gather, parse, and format data and then design high quality graphics that help you explore and present patterns, outliers, and relationships. Presents a unique approach to visualizing and telling stories with data, from a data visualization expert and the creator of flowingdata.com, Nathan Yau Offers step-by-step tutorials and practical design tips for creating statistical graphics, geographical maps, and information design to find meaning in the numbers Details tools that can be used to visualize data-native graphics for the Web, such as ActionScript, Flash libraries, PHP, and JavaScript and tools to design graphics for print, such as Rand Illustrator Contains numerous examples and descriptions of patterns and outliers and explains how to

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show them Visualize This demonstrates how to explain data visually so that you can present your information in a way that is easy to understand and appealing.

It's a bitterly cold February in 1961, and Sandy Greenberg lies in a hospital bed in Detroit, newly blind. A junior at Columbia University from a Jewish family that struggled to stay above the poverty line, Sandy had just started to see the world open up to him. Now, instead of his plans for a bright future—Harvard Law and politics—Sandy faces a new reality, one defined by a cane or companion dog, menial work, and a cautious path through life. But that's not how this story ends. In the depth of his new darkness, Sandy faces a choice—play it “safe” by staying in his native Buffalo or return to Columbia to pursue his dreams. With the

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loving devotion of his girlfriend (and now wife) Sue and the selflessness of best friends Art Garfunkel and Jerry Speyer, Sandy endures unimaginable adversity while forging a life of exceptional achievement. From his time in the White House working for President Lyndon B. Johnson to his graduate studies at Harvard and Oxford under luminaries such as Archibald Cox, Sir Arthur Goodhart, and Samuel Huntington, and through the guidance of his invaluable mentor David Rockefeller, Sandy fills his life and the lives of those around him with a radiant light of philanthropy, entrepreneurship, art, and innovation.

Film is an art form with a language and an aesthetic all its own, and since 1979 David Bordwell and Kristin Thompson's Film Art has been the most respected introduction to the art

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and analysis of cinema. In the new seventh edition, Film Art continues its commitment to providing the best introduction to the fundamentals of serious film study - images throughout the book are collected from actual film frames, not from production stills or advertising photos - but the book has been extensively re-designed to improve readability and teachability. Additionally, the text can be packaged with the award-winning Film, Form, and Culture CD-ROM, and is supported by an extensive Instructor's Manual and text-specific website.

Nutraceutical and Functional Food Components

Introduction to Information Retrieval

Principles for Creating Graphics that People Understand

How to Study Art Worlds

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The New Science of a Lost Art

A Systemic Functional Grammar of English

Visual Journalism

Nutraceutical and Functional Food Components: Effects of Innovative Processing Techniques, Second Edition highlights the impact of recent food industry advances on the nutritional value, functional properties, applications, bioavailability, and bioaccessibility of food components. This second edition also assesses shelf-life, sensory characteristics, and the profile of food products. Covering the most important groups of food components, including lipids, proteins, peptides and amino acids,

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carbohydrates, dietary fiber, polyphenols, carotenoids, vitamins, aromatic compounds, minerals, glucosinolates, enzymes, this book addresses processing methods for each. Food scientists, technologists, researchers, nutritionists, engineers and chemists, agricultural scientists, other professionals working in the food industry, as well as students studying related fields, will benefit from this updated reference. Focuses on nutritional value, functional properties, applications, bioavailability and bioaccessibility of food components Covers food components by describing the effects of thermal and non-

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thermal technologies Addresses shelf-life, sensory characteristics and health claims
The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas

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and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on

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such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

The Functional ArtAn introduction to information graphics and visualizationNew Riders

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Hans van Maanen is professor of art and society at the Department of Arts, Culture & Media Studies of the University of Groningen, the Netherlands.

A guide to the basics of information visualization that teaches nonprogrammers how to use advanced data mining and visualization techniques to design insightful visualizations. In the age of Big Data, the tools of information visualization offer us a macroscope to help us make sense of the avalanche of data available on every subject. This book offers a gentle introduction to the design of insightful information visualizations. It is the only book on

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the subject that teaches nonprogrammers how to use open code and open data to design insightful visualizations. Readers will learn to apply advanced data mining and visualization techniques to make sense of temporal, geospatial, topical, and network data. The book, developed for use in an information visualization MOOC, covers data analysis algorithms that enable extraction of patterns and trends in data, with chapters devoted to “when” (temporal data), “where” (geospatial data), “what” (topical data), and “with whom” (networks and trees); and to systems that drive research and development. Examples of

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projects undertaken for clients include an interactive visualization of the success of game player activity in World of Warcraft; a visualization of 311 number adoption that shows the diffusion of non-emergency calls in the United States; a return on investment study for two decades of HIV/AIDS research funding by NIAID; and a map showing the impact of the HiveNYC Learning Network. Visual Insights will be an essential resource on basic information visualization techniques for scholars in many fields, students, designers, or anyone who works with data.

A Practical Guide to Making Sense of Data

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Real World OCaml

Design for Information

How Daring Dreams and Unyielding Friendship

Turned One Man's Blindness Into an

Extraordinary Vision for Life

An Introduction from a Functional-Cognitive

Perspective

A Handbook for Data Driven Design

Data Visualization Handbook

Don't simply show your data—tell a story with it!

Storytelling with Data teaches you the

fundamentals of data visualization and how to

communicate effectively with data. You'll discover

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the power of storytelling and the way to make data a pivotal point in your story. The lessons in this illuminative text are grounded in theory, but made accessible through numerous real-world examples—ready for immediate application to your next graph or presentation. Storytelling is not an inherent skill, especially when it comes to data visualization, and the tools at our disposal don't make it any easier. This book demonstrates how to go beyond conventional tools to reach the root of your data, and how to use your data to create an engaging, informative, compelling story. Specifically, you'll learn how to: Understand

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the importance of context and audience

Determine the appropriate type of graph for your situation Recognize and eliminate the clutter clouding your information Direct your audience's attention to the most important parts of your data Think like a designer and utilize concepts of design in data visualization Leverage the power of storytelling to help your message resonate with your audience Together, the lessons in this book will help you turn your data into high impact visual stories that stick with your audience. Rid your world of ineffective graphs, one exploding 3D pie chart at a time. There is a story in your

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data—Storytelling with Data will give you the skills and power to tell it!

Dataviz—the new language of business A good visualization can communicate the nature and potential impact of information and ideas more powerfully than any other form of communication. For a long time “dataviz” was left to specialists—data scientists and professional designers. No longer. A new generation of tools and massive amounts of available data make it easy for anyone to create visualizations that communicate ideas far more effectively than generic spreadsheet charts ever could. What's

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more, building good charts is quickly becoming a need-to-have skill for managers. If you're not doing it, other managers are, and they're getting noticed for it and getting credit for contributing to your company's success. In *Good Charts*, dataviz maven Scott Berinato provides an essential guide to how visualization works and how to use this new language to impress and persuade. Dataviz today is where spreadsheets and word processors were in the early 1980s—on the cusp of changing how we work. Berinato lays out a system for thinking visually and building better charts through a process of talking, sketching, and

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prototyping. This book is much more than a set of static rules for making visualizations. It taps into both well-established and cutting-edge research in visual perception and neuroscience, as well as the emerging field of visualization science, to explore why good charts (and bad ones) create “feelings behind our eyes.” Along the way, Berinato also includes many engaging vignettes of dataviz pros, illustrating the ideas in practice. Good Charts will help you turn plain, uninspiring charts that merely present information into smart, effective visualizations that powerfully convey ideas.

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The visualization process doesn't happen in a vacuum; it is grounded in principles and methodologies of design, cognition, perception, and human-computer-interaction that are combined to one's personal knowledge and creative experiences. Design for Information critically examines other design solutions—current and historic—helping you gain a larger understanding of how to solve specific problems. This book is designed to help you foster the development of a repertoire of existing methods and concepts to help you overcome design problems. Learn the ins and outs of data

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visualization with this informative book that provides you with a series of current visualization case studies. The visualizations discussed are analyzed for their design principles and methods, giving you valuable critical and analytical tools to further develop your design process. The case study format of this book is perfect for discussing the histories, theories and best practices in the field through real-world, effective visualizations. The selection represents a fraction of effective visualizations that we encounter in this burgeoning field, allowing you the opportunity to extend your study to other solutions in your

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specific field(s) of practice. This book is also helpful to students in other disciplines who are involved with visualizing information, such as those in the digital humanities and most of the sciences.

The renormalization group (RG) has nowadays achieved the status of a meta-theory, which is a theory about theories. The theory of the RG consists of a set of concepts and methods which can be used to understand phenomena in many different fields of physics, ranging from quantum field theory over classical statistical mechanics to nonequilibrium phenomena. RG methods are

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particularly useful to understand phenomena where fluctuations involving many different length or time scales lead to the emergence of new collective behavior in complex many-body systems. In view of the diversity of fields where RG methods have been successfully applied, it is not surprising that a variety of apparently different implementations of the RG idea have been proposed. Unfortunately, this makes it somewhat difficult for beginners to learn this technique. For example, the field-theoretical formulation of the RG idea looks at the first sight rather different from the RG approach pioneered

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by Wilson, the latter being based on the concept of the effective action which is iteratively calculated by successive elimination of the high-energy degrees of freedom. Moreover, the Wilsonian RG idea has been implemented in many different ways, depending on the particular problem at hand, and there seems to be no canonical way of setting up the RG procedure for a given problem.

As the world grows more complex, some of the best stories are told through visuals - infographics. From election results to catastrophes to wars to scientific discoveries: the

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stream of data we are exposed to daily becomes ever more complicated. Infographics help make sense of it, transforming difficult to grasp facts and figures into accessible visualizations. Print media are increasingly making successful use of them. Visual Journalism reveals the masters of this discipline and their finest works. The portraits of studios and individuals within this compendium illustrate how the world of infographics continues to evolve as it informs data and graphic trends. A visual revolution showcases the myriad possibilities of non-verbal communication.

Introduction to the Art of Programming Using

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Scala

The Psychology of Learning

Data Visualisation

Visualizing Information Through Photography

Dear Data

Data, Charts, and Maps for Communication

Effective Communication with Data Visualization
and Design

Introduction to Functional Data Analysis provides a concise textbook introduction to the field. It explains how to analyze functional data, both at exploratory and inferential levels. It also provides a systematic and accessible exposition of the methodology and the required mathematical framework. The

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book can be used as textbook for a semester-long course on FDA for advanced undergraduate or MS statistics majors, as well as for MS and PhD students in other disciplines, including applied mathematics, environmental science, public health, medical research, geophysical sciences and economics. It can also be used for self-study and as a reference for researchers in those fields who wish to acquire solid understanding of FDA methodology and practical guidance for its implementation. Each chapter contains plentiful examples of relevant R code and theoretical and data analytic problems. The material of the book can be roughly divided into four parts of approximately equal length: 1) basic concepts and techniques of FDA, 2) functional regression models, 3) sparse and dependent

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functional data, and 4) introduction to the Hilbert space framework of FDA. The book assumes advanced undergraduate background in calculus, linear algebra, distributional probability theory, foundations of statistical inference, and some familiarity with R programming. Other required statistics background is provided in scalar settings before the related functional concepts are developed. Most chapters end with references to more advanced research for those who wish to gain a more in-depth understanding of a specific topic.

An introduction to the psychology of learning that summarizes and integrates findings from both functional psychology and cognitive psychology. Learning unites all living

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creatures, from simple microbes to complex human beings. But what is learning? And how does it work? For over a century, psychologists have considered such questions. Behavior analysts examined the ways in which the environment shapes behavior, whereas cognitive scientists have sought to understand the mental processes that enable us to learn. This book offers an introduction to the psychology of learning that draws on the key findings and major insights from both functional (behavior analysis) and cognitive approaches. After an introductory overview, the book reviews research showing how seemingly simple regularities in the environment lead to powerful changes in behavior, from habituation and classical conditioning to operant conditioning effects. It introduces the

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concept of complex learning and considers the idea that for verbal human beings even seemingly simple types of learning might qualify as instances of complex learning. Finally, it offers many examples of how psychological research on learning is being used to promote human well-being and alleviate such societal problems as climate change. Throughout the book, boxed text extends the discussion of selected topics and “think it through” questions help readers gain deeper understanding of what they have read. The book can be used as an introductory textbook on the psychology of learning for both undergraduate and postgraduate students or as a reference for researchers who study behavior and thinking.

What is the purpose of a work of art? What drives us to make

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art? Why do we value art and consume it? Nick Zangwill argues that we cannot understand the nature of art without first having answers to these fundamental questions. On his view, which he dubs 'the Aesthetic Creation Theory', a work of art is something created for a particular aesthetic purpose. More specifically, the function of art is to have certain aesthetic properties in virtue of its non-aesthetic properties, and this function arises because of the artist's insight into the nature of these dependence relations and her intention to bring them about. In defending this view, Zangwill provides an account of aesthetic action and aesthetic creative thought and shows how the Aesthetic Creation Theory can accommodate two kinds of seeming counterexamples to aesthetic theories of art: narrative

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art and twentieth-century avant-garde art. Aesthetic Creation also contains a detailed exposition and critique of a range of rival views, including Dickie's institutional theory of art, accounts of art that make essential reference to an audience, and sociological theories which purport to explain the nature of art without recourse to the notion of the aesthetic.

No matter what your actual job title, you are—or soon will be—a data worker. Every day, at work, home, and school, we are bombarded with vast amounts of free data collected and shared by everyone and everything from our co-workers to our calorie counters. In this highly anticipated follow-up to *The Functional Art*—Alberto Cairo's foundational guide to understanding information graphics and visualization—the

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respected data visualization professor explains in clear terms how to work with data, discover the stories hidden within, and share those stories with the world in the form of charts, maps, and infographics. In *The Truthful Art*, Cairo transforms elementary principles of data and scientific reasoning into tools that you can use in daily life to interpret data sets and extract stories from them. *The Truthful Art* explains:

- The role infographics and data visualization play in our world
- Basic principles of data and scientific reasoning that anyone can master
- How to become a better critical thinker
- Step-by-step processes that will help you evaluate any data visualization (including your own)
- How to create and use effective charts, graphs, and data maps to explain data to any audience

The

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Truthful Art is also packed with inspirational and educational real-world examples of data visualizations from such leading publications as The New York Times, The Wall Street Journal, Estado de São Paulo (Brazil), Berliner Morgenpost (Germany), and many more.

Vision is our most dominant sense, from which we derive most of our information about the world. From the light that enters the eye and the processing in the brain that follows we can sense where things are, how they move and what they are. The first edition of Visual Perception took a refreshingly different approach to perception, starting from the function that vision serves for an active observer in a three-dimensional environment. This fully revised and expanded new edition

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continues this approach in contrast to the traditional textbook treatment of vision as a catalogue of phenomena. Following a general introduction to the main theoretical approaches, the authors discuss the historical basis of our current knowledge. Placing the study of vision in its historical context, they look at how our ideas have been shaped by art, optics, biology and philosophy as well as psychology. Visual optics and the neurophysiology of vision are also described. The core of the book covers the perception of location, motion and object recognition. There is a new chapter on representation and vision, including a section on the perception of computer generated images. This readable, accessible and truly relevant introduction to the world of perception aims to elicit both

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independent thought and further study. It will be welcomed by students of visual perception and those with a general interest in the mysteries of vision.

Introduction to the Functional Renormalization Group

An Introduction

A Visual Guide to Travel and the World

How Charts Lie: Getting Smarter about Visual Information

Perception for Design

A Data Visualization Guide for Business Professionals

An introduction to information graphics and visualization

Presents an introduction of information graphics and visualization, covering such topics as using color and type, how brains perceive and remember information,

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and the creative process behind information graphics. PhotoViz explores the intersection of photography, infographics, and data visualization. Combining cutting-edge technology and classic photographic techniques enables us to tell stories and visualize information more powerfully and compactly than ever: a full day of flights all at once, invisible Wi-Fi networks, global trade, intimate psychology, movement, time itself, and more. The concept of PhotoViz invites us to simultaneously reinvent our collective reality and demystify our surroundings. Within this mesmerizing photographic world, striking images reveal the power of tools ranging from long exposure and slit-scan photography to post-

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processing, collage, and metadata. PhotoViz is a source of inspiration and a crucial resource for designers and photographers alike.

"In this introductory video course on information graphics, Alberto Cairo goes into greater detail with even more visual examples of how to create effective information graphics that function as practical tools for aiding perception. You'll learn how to: incorporate basic design principles in your visualizations, create simple interfaces for interactive graphics, and choose the appropriate type of graphic forms for your data. Cairo also deconstructs successful information graphics from The New York Times and National Geographic magazine

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with sketches and images not shown in the book."--Resource description page.

Within every picture is a hidden language that conveys a message, whether it is intended or not. This language is based on the ways people perceive and process visual information. By understanding visual language as the interface between a graphic and a viewer, designers and illustrators can learn to inform with accuracy and power. In a time of unprecedented competition for audience attention and with an increasing demand for complex graphics, Visual Language for Designers explains how to achieve quick and effective communications. New in paperback, this book presents ways to design for the

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strengths of our innate mental capacities and to compensate for our cognitive limitations. Visual Language for Designers includes: —How to organize graphics for quick perception —How to direct the eyes to essential information —How to use visual shorthand for efficient communication —How to make abstract ideas concrete —How to best express visual complexity —How to charge a graphic with energy and emotion

Lonely Planet: The world's leading travel guide publisher* Want to know how to wear a kilt, kiss a stranger, prevent a hangover, get out of a sinking car, eat a lobster, greet an alien, predict the weather, play croquet and much, much more? The Book of Everthing

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has it all. Open the book! Dive in! We guarantee you'll learn something new. And, equipped for a world of smart, safe and exciting travel, you can use your witty know-how to make friends wherever you go. Authors: Written and researched by Lonely Planet, Nigel Holmes. About Lonely Planet: Started in 1973, Lonely Planet has become the world's leading travel guide publisher with guidebooks to every destination on the planet, as well as an award-winning website, a suite of mobile and digital travel products, and a dedicated traveller community. Lonely Planet's mission is to enable curious travellers to experience the world and to truly get to the heart of the places where they travel. TripAdvisor Travellers' Choice

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Awards 2012 and 2013 winner in Favorite Travel Guide category 'Lonely Planet guides are, quite simply, like no other.' - New York Times 'Lonely Planet. It's on everyone's bookshelves; it's in every traveller's hands. It's on mobile phones. It's on the Internet. It's everywhere, and it's telling entire generations of people how to travel the world.' - Fairfax Media (Australia) *#1 in the world market share - source: Nielsen Bookscan.

Australia, UK and USA. March 2012-January 2013

Important Notice: The digital edition of this book may not contain all of the images found in the physical edition.

Design, Context, and Meaning

A Simple Introduction

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On the Societal Functioning of Aesthetic Values

The Book of Everything

Philosophy of the Arts

Photoviz

A Guide for Scholars, Researchers, and Wonks

Equal parts mail art, data visualization, and affectionate correspondence, *Dear Data* celebrates "the infinitesimal, incomplete, imperfect, yet exquisitely human details of life," in the words of Maria Popova (*Brain Pickings*), who introduces this charming and graphically powerful book. For one year, Giorgia Lupi, an Italian living in New York, and Stefanie Posavec, an American in London, mapped

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the particulars of their daily lives as a series of hand-drawn postcards they exchanged via mail weekly—small portraits as full of emotion as they are data, both mundane and magical. Dear Data reproduces in pinpoint detail the full year's set of cards, front and back, providing a remarkable portrait of two artists connected by their attention to the details of their lives—including complaints, distractions, phone addictions, physical contact, and desires. These details illuminate the lives of two remarkable young women and also inspire us to map our own lives, including specific suggestions on what data to draw and how. A captivating and unique book for designers, artists,

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correspondents, friends, and lovers everywhere.

Well-respected text for computer science students provides an accessible introduction to functional programming.

Cogent examples illuminate the central ideas, and numerous exercises offer reinforcement. Includes solutions. 1989 edition.

With its flexibility for programming both small and large projects, Scala is an ideal language for teaching beginning programming. Yet there are no textbooks on Scala currently available for the CS1/CS2 levels. Introduction to the Art of Programming Using Scala presents many concepts from CS1 and CS2 using a modern, JVM-based

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language that works we

A step-by-step introduction to lexical-functional grammar, using data from English and a range of typologically diverse languages.

The data visualization handbook is a practical guide to creating compelling graphics to explain or explore data. It is primarily aimed for designers, journalists, researchers, analysts, and other professionals who want to learn the basics of visualization, but also includes plenty of material for people with intermediate level visualization skills.

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Film Art

Good Charts

An Introduction to Functional Programming Through
Lambda Calculus

Reinforcement Learning, second edition

The HBR Guide to Making Smarter, More Persuasive
Data Visualizations

Infographics from the World's Best Newsrooms and
Designers

***Unlike any time before in our lives, we have
access to vast amounts of free information. With
the right tools, we can start to make sense of all***

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this data to see patterns and trends that would otherwise be invisible to us. By transforming numbers into graphical shapes, we allow readers to understand the stories those numbers hide. In this practical introduction to understanding and using information graphics, you'll learn how to use data visualizations as tools to see beyond lists of numbers and variables and achieve new insights into the complex world around us. Regardless of the kind of data you're working with-business, science, politics, sports, or even your own personal finances-this book will show you how to use statistical charts, maps, and

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explanation diagrams to spot the stories in the data and learn new things from it. You'll also get to peek into the creative process of some of the world's most talented designers and visual journalists, including Condé Nast Traveler's John Grimwade, National Geographic Magazine's Fernando Baptista, The New York Times' Steve Duenes, The Washington Post's Hannah Fairfield, Hans Rosling of the Gapminder Foundation, Stanford's Geoff McGhee, and European superstars Moritz Stefaner, Jan Willem Tulp, Stefanie Posavec, and Gregor Aisch. The book also includes a DVD-ROM containing over 90

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minutes of video lessons that expand on core concepts explained within the book and includes even more inspirational information graphics from the world's leading designers. The first book to offer a broad, hands-on introduction to information graphics and visualization, The Functional Art reveals:

- Why data visualization should be thought of as “functional art” rather than fine art***
- How to use color, type, and other graphic tools to make your information graphics more effective, not just better looking***
- The science of how our brains perceive and remember information***
- Best practices for***

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creating interactive information graphics • A comprehensive look at the creative process behind successful information graphics • An extensive gallery of inspirational work from the world's top designers and visual artists On the DVD-ROM: In this introductory video course on information graphics, Alberto Cairo goes into greater detail with even more visual examples of how to create effective information graphics that function as practical tools for aiding perception. You'll learn how to: incorporate basic design principles in your visualizations, create simple interfaces for interactive graphics, and choose

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the appropriate type of graphic forms for your data. Cairo also deconstructs successful information graphics from The New York Times and National Geographic magazine with sketches and images not shown in the book. All of Peachpit's eBooks contain the same content as the print edition. You will find a link in the last few pages of your eBook that directs you to the media files. Helpful tips: If you are able to search the book, search for "Where are the lesson files?" Go to the very last page of the book and scroll backwards. You will need a web-enabled device or computer in order to access the media

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Hello Darkness, My Old Friend

An Introduction to the Histories, Theories, and Best Practices Behind Effective Information Visualizations
Visual Insights

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Introduction to Art
The Functional Art
Lexical-Functional Grammar