



Second Edition

# Processing

A Programming  
Handbook for  
Visual Designers  
and Artists

Foreword by John Maeda

Casey Reas  
Ben Fry

# Processing A Programming Handbook For Visual Designers And Artists

**Cat Hope, John Charles Ryan**



## **Processing A Programming Handbook For Visual Designers And Artists:**

Processing, second edition Casey Reas, Ben Fry, 2014-12-26 The new edition of an introduction to computer programming within the context of the visual arts using the open source programming language Processing thoroughly updated throughout The visual arts are rapidly changing as media moves into the web mobile devices and architecture When designers and artists learn the basics of writing software they develop a new form of literacy that enables them to create new media for the present and to imagine future media that are beyond the capacities of current software tools This book introduces this new literacy by teaching computer programming within the context of the visual arts It offers a comprehensive reference and text for Processing [www.processing.org](http://www.processing.org) an open source programming language that can be used by students artists designers architects researchers and anyone who wants to program images animation and interactivity Written by Processing's cofounders the book offers a definitive reference for students and professionals Tutorial chapters make up the bulk of the book advanced professional projects from such domains as animation performance and installation are discussed in interviews with their creators This second edition has been thoroughly updated It is the first book to offer in depth coverage of Processing 2.0 and 3.0 and all examples have been updated for the new syntax Every chapter has been revised and new chapters introduce new ways to work with data and geometry New synthesis chapters offer discussion and worked examples of such topics as sketching with code modularity and algorithms New interviews have been added that cover a wider range of projects Extension chapters are now offered online so they can be updated to keep pace with technological developments in such fields as computer vision and electronics Interviews SUE C Larry Cuba Mark Hansen Lynn Hershman Leeson J rg Lehn LettError Golan Levin and Zachary Lieberman Benjamin Maus Manfred Mohr Ash Nehru Josh On Bob Sabiston Jennifer Steinkamp Jared Tarbell Steph Thirion Robert Winter

*Processing* Casey Reas, Ben Fry, 2014

**Processing, second edition** Casey Reas, Ben Fry, 2014-12-19 The new edition of an introduction to computer programming within the context of the visual arts using the open source programming language Processing thoroughly updated throughout The visual arts are rapidly changing as media moves into the web mobile devices and architecture When designers and artists learn the basics of writing software they develop a new form of literacy that enables them to create new media for the present and to imagine future media that are beyond the capacities of current software tools This book introduces this new literacy by teaching computer programming within the context of the visual arts It offers a comprehensive reference and text for Processing [www.processing.org](http://www.processing.org) an open source programming language that can be used by students artists designers architects researchers and anyone who wants to program images animation and interactivity Written by Processing's cofounders the book offers a definitive reference for students and professionals Tutorial chapters make up the bulk of the book advanced professional projects from such domains as animation performance and installation are discussed in interviews with their creators This second edition has been thoroughly updated It is the first book to offer in depth coverage of Processing 2.0 and 3.0 and all

examples have been updated for the new syntax Every chapter has been revised and new chapters introduce new ways to work with data and geometry New synthesis chapters offer discussion and worked examples of such topics as sketching with code modularity and algorithms New interviews have been added that cover a wider range of projects Extension chapters are now offered online so they can be updated to keep pace with technological developments in such fields as computer vision and electronics Interviews SUE C Larry Cuba Mark Hansen Lynn Hershman Leeson J rg Lehn LettError Golan Levin and Zachary Lieberman Benjamin Maus Manfred Mohr Ash Nehru Josh On Bob Sabiston Jennifer Steinkamp Jared Tarbell Steph Thirion Robert Winter **Introduction to Game Programming using Processing** Daniel Cermak-Sassenrath,2024-06-27

This is an introductory textbook focusing on games specifically interaction and graphics as a pathway into programming It empowers readers to do basic programming prototyping game creation and other highly interactive applications all from scratch and without any prior programming knowledge Using the popular programming language Processing this book describes explains and demonstrates the basic and general programming principles and mechanisms used in typical game algorithms and concrete game projects Chapters cover basic graphics text output loops data types and variables movement time audio and sound debugging classes and objects event based programming real time input controls computer speed compensation animation tiling scrolling collision detection basic AI and much more Additional support materials such as code examples and demo programs are available to download from the book s webpage dace de gameswithprocessing This book is a great resource for students and aspiring professionals looking for an approachable entry into game programming

**Digital Multimedia: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2017-09-13 Contemporary society resides in an age of ubiquitous technology With the consistent creation and wide availability of multimedia content it has become imperative to remain updated on the latest trends and applications in this field Digital Multimedia Concepts Methodologies Tools and Applications is an innovative source of scholarly content on the latest trends perspectives techniques and implementations of multimedia technologies Including a comprehensive range of topics such as interactive media mobile technology and data management this multi volume book is an ideal reference source for engineers professionals students academics and researchers seeking emerging information on digital multimedia

**The Elements of Graphic Design** Alex W. White,2011-03-15 This very popular design book has been wholly revised and expanded to feature a new dimension of inspiring and counterintuitive ideas to thinking about graphic design relationships The Elements of Graphic Design Second Edition is now in full color in a larger 8 x 10 inch trim size and contains 40 percent more content and over 750 images to enhance and better clarify the concepts in this thought provoking resource The second edition also includes a new section on web design and new discussions of modularity framing motion and time rules of randomness and numerous quotes supported by images and biographies This pioneering work provides designers art directors and students regardless of experience with a unique approach to successful design Veteran designer and educator

Alex W White has assembled a wealth of information and examples in his exploration of what makes visual design stunning and easy to read Readers will discover White s four elements of graphic design including how to define and reveal dominant images words and concepts use scale color and position to guide the viewer through levels of importance employ white space as a significant component of design and not merely as background and use display and text type for maximum comprehension and value to the reader Offering a new way to think about and use the four design elements this book is certain to inspire better design Allworth Press an imprint of Skyhorse Publishing publishes a broad range of books on the visual and performing arts with emphasis on the business of art Our titles cover subjects such as graphic design theater branding fine art photography interior design writing acting film how to start careers business and legal forms business practices and more While we don t aspire to publish a New York Times bestseller or a national bestseller we are deeply committed to quality books that help creative professionals succeed and thrive We often publish in areas overlooked by other publishers and welcome the author whose expertise can help our audience of readers

**Visualizing Data** Ben Fry,2008 Provides information on the methods of visualizing data on the Web along with example projects and code

**Teaching Computational Creativity** Michael Filimowicz,Veronika Tzankova,2017-05-02 SS JA DN MF SS DN MF DN MF DN MF DN Afterword Toward a Curricular Synthesis Index

**Hello World** Alice Rawsthorn,2014-02-06 Our gadgets appliances and cars are sleeker and more elegant than they ve ever been in our free time we trawl the internet for pictures of flawless minimalist interiors and even the great industrialist of our time Steve Jobs is admired more for his visual savvy than his technological inventiveness And yet with Instagram and Pinterest at our fingers and great design more available and more affordable than ever we ve had no guidebook to this ever fascinating field Though it s an inescapable part of our lives there has been no single book that could in one fell swoop tell us everything we need to know about design Enter Hello World The design critic for the International Heard Tribune Alice Rawsthorn has spent many years reckoning with the history of design and with its place in contemporary life and Hello World is the extraordinary summation of her research and reporting Rawsthorn takes us on a trip through design that ranges across continents and centuries and wherever she goes she discovers inspiring thrilling examples of resourcefulness inventiveness and sheer vision From the macabre symbol with which eighteenth century pirates terrorized their victims into surrender to one woman s quest for the best prosthetic legs to the evolution of the World Cup soccer ball Hello World describes how warlords scientists farmers hackers activists and professional designers have used the complex often elusive process of design to different ends throughout history Hailed as a rapid fire and illuminating ode to contemporary design Telegraph and an extremely readable tour of the subject Financial Times Hello World is a major work that radically broadens our understanding of what design can mean and explains how we can use it to make sense of our ever changing universe

**Human Factors in Computing and Informatics** Andreas Holzinger,Martina Ziefle,Martin Hitz,Matjaz Debevc,2013-06-26 This book constitutes the refereed proceedings of the First

International Conference on Human Factors in Computing and Informatics SouthCHI 2013 held in Maribor Slovenia in July 2013 SouthCHI is the successor of the USAB Conference series and promotes all aspects of human computer interaction The 38 revised full papers presented together with 12 short papers 4 posters and 3 doctoral thesis papers were carefully reviewed and selected from 169 submissions The papers are organized in the following topical sections measurement and usability evaluation usability evaluation medical environments accessibility methodologies game based methodologies Web based systems and attribution research virtual environments design culture for ageing well designing for situated elderliness input devices adaptive systems and intelligent agents and assessing the state of HCI research and practice in South Eastern Europe

**Parametric Design for Architecture** Wassim Jabi, 2013-09-15 Architects use CAD to help them visualize their ideas Parametric design is a fast growing development of CAD that lets architects and designers specify the key parameters of their model and make changes interactively Whenever changes are made the rest of the model updates automatically Through a detailed description of various parametric generative and algorithmic techniques this book provides a practical guide to generating geometric and topological solutions for various situations including explicit step by step tutorials While the techniques and algorithms can be generalized to suit to any parametric environment the book illustrates its concepts using the scripting languages of one of the most powerful 3D visualization and animation design software systems Autodesk 3ds Max MAXScript one of the most popular open source Java based scripting environments Processing and a brand new language specifically tailored for parametric and generative design Autodesk DesignScript This clear accessible book will have a wide appeal to students and practitioners who would like to experiment with parametric techniques

*Remote Sensed Data and Processing Methodologies for 3D Virtual Reconstruction and Visualization of Complex Architectures* Diego Gonzalez-Aguilera, Fabio Remondino, Pablo Rodríguez-Gonzálvez, Erica Nocerino, 2018-09-28 This book is a printed edition of the Special Issue Remote Sensed Data and Processing Methodologies for 3D Virtual Reconstruction and Visualization of Complex Architectures that was published in Remote Sensing

**Code as Creative Medium** Golan Levin, Tega Brain, 2021-02-02 An essential guide for teaching and learning computational art and design exercises assignments interviews and more than 170 illustrations of creative work This book is an essential resource for art educators and practitioners who want to explore code as a creative medium and serves as a guide for computer scientists transitioning from STEM to STEAM in their syllabi or practice It provides a collection of classic creative coding prompts and assignments accompanied by annotated examples of both classic and contemporary projects and more than 170 illustrations of creative work and features a set of interviews with leading educators Picking up where standard programming guides leave off the authors highlight alternative programming pedagogies suitable for the art and design oriented classroom including teaching approaches resources and community support structures

**Arduino in Action** Jordan Hochenbaum, Joshua Noble, Martin Evans, 2013-05-29 Summary Arduino in Action is a hands on guide to prototyping and building electronics using the Arduino

platform Suitable for both beginners and advanced users this easy to follow book begins with the basics and then systematically guides you through projects ranging from your first blinking LED through connecting Arduino to devices like game controllers or your iPhone About the Technology Arduino is an open source do it yourself electronics platform that supports a mind boggling collection of sensors and actuators you can use to build anything you can imagine Even if you ve never attempted a hardware project this easy to follow book will guide you from your first blinking LED through connecting Arduino to your iPhone About this Book Arduino in Action is a hands on guide to prototyping and building DIY electronics You ll start with the basics unpacking your board and using a simple program to make something happen Then you l attempt progressively more complex projects as you connect Arduino to motors LCD displays Wi Fi GPS and Bluetooth You ll explore input output sensors including ultrasound infrared and light and then use them for tasks like robotic obstacle avoidance Arduino programs look a lot like C or C so some programming skill is helpful What s Inside Getting started with Arduino no experience required Writing programs for Arduino Sensing and responding to events Robots flying vehicles Twitter machines LCD displays and more Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Authors Martin Evans is a professional developer a lifelong electronics enthusiast and the creator of an Arduino based underwater ROV Joshua Noble is an author and creative technologist who works with smart spaces Jordan Hochenbaum uses Arduino to explore musical expression and creative interaction Table of Contents Part 1 Getting started Chapter 1 Hello Arduino Chapter 2 Digital input and output Chapter 3 Simple projects input and output Part 2 Putting Arduino to work Chapter 4 Extending Arduino Chapter 5 Arduino in motion Chapter 6 Object detection Chapter 7 LCD displays Chapter 8 Communications Chapter 9 Game on Chapter 10 Integrating the Arduino with iOS Chapter 11 Making wearables Chapter 12 Adding shields Chapter 13 Software integration      **Graphic Design** Ellen Lupton,Jennifer Cole Phillips,2008-05 This guide aims to move students away from a cut and paste mentality and refocus design instruction on the fundamentals of form starting from such basics as point and line in a critical rigorous way informed by contemporary media theory and software systems      **Digital Arts** Cat Hope,John Charles Ryan,2014-06-19 Digital Arts presents an introduction to new media art through key debates and theories The volume begins with the historical contexts of the digital arts discusses contemporary forms and concludes with current and future trends in distribution and archival processes Considering the imperative of artists to adopt new technologies the chapters of the book progressively present a study of the impact of the digital on art as well as the exhibition distribution and archiving of artworks Alongside case studies that illustrate contemporary research in the fields of digital arts reflections and questions provide opportunities for readers to explore relevant terms theories and examples Consistent with the other volumes in the New Media series a bullet point summary and a further reading section enhance the introductory focus of each chapter      *Geometric Computation: Foundations for Design* Joy Ko,Kyle Steinfeld,2018-02-15 Geometric Computation Foundations for Design describes the

mathematical and computational concepts that are central to the practical application of design computation in a manner tailored to the visual designer. Uniquely pairing key topics in code and geometry, this book develops the two key faculties required by designers that seek to integrate computation into their creative practice: an understanding of the structure of code in object-oriented programming and a proficiency in the fundamental geometric constructs that underlie much of the computational media in visual design.

*Higher Education Computer Science* Jenny Carter, Michael O'Grady, Clive Rosen, 2023-05-29

The march towards on-line and blended teaching present before the Covid 19 pandemic has been accelerated by it and there is no going back. Students and staff may object but the economic drive towards greater productivity will inevitably result in less face-to-face f2f instruction. Therefore it is incumbent for those delivering this precious in-person resource to make maximum use of time which raises the question: how? The second edition of *Higher Education Computer Science* offers some potential answers. It also addresses other questions such as: why have f2f teaching at all? what is the purpose of f2f and what is the appropriate balance between the two? The first edition began to offer suggestions for optimising limited opportunities to get together with students. Aligned with that, this unique new volume examines how to use the technology available to maximum advantage. For example, resources such as Moocs and other on-line instructional materials can provide invaluable pedagogic support. In addition, the book addresses problem-based learning using robotics in the teaching of programming and a multidisciplinary approach to data science. Although it includes a chapter on distance learning, there is greater emphasis placed on the soft transferable skills and employability skills that are best delivered in person. Further, the work provides several examples of putting theory into practice when teaching computer science at both undergraduate and postgraduate levels. Written by experienced practitioners, each chapter tackles a particular teaching activity or topic within computing presented in such a way that other practitioners can use. As such, this new volume will be an invaluable resource to those who want to protect and optimise in-person teaching.

**The Software Arts** Warren Sack, 2019-04-09

An alternative history of software that places the liberal arts at the very center of software's evolution. In *The Software Arts*, Warren Sack offers an alternative history of computing that places the arts at the very center of software's evolution. Tracing the origins of software to eighteenth-century French encyclopedists' step-by-step descriptions of how things were made in the workshops of artists and artisans, Sack shows that programming languages are the offspring of an effort to describe the mechanical arts in the language of the liberal arts. Sack offers a reading of the texts of computing code, algorithms, and technical papers that emphasizes continuity between prose and programs. He translates concepts and categories from the liberal and mechanical arts, including logic, rhetoric, grammar, learning, algorithm, language, and simulation, into terms of computer science and then considers their further translation into popular culture where they circulate as forms of digital life. He considers, among other topics, the arithmetization of knowledge that presaged digitization, today's multitude of logics, the history of demonstration from deduction to newer forms of persuasion, and the post-Chomsky absence



of meaning in grammar With The Software Arts Sack invites artists and humanists to see how their ideas are at the root of software and invites computer scientists to envision themselves as artists and humanists      **Making Things Talk** Tom Igoe, 2011-09-15 Now fully updated this book contains a series of projects that teaches readers what they need to know to get their creations talking to each other connecting to the Web and forming networks of smart devices

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