GENERATIVE DESIGN

Visualize, Program, and Create with Processing

Hartmut Bohnacker
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Generative Design Visualize Program And Create With Processing Hartmut Bohnacker

Hartmut Bohnacker,Benedikt Gross,Julia Laub

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Generative Design Hartmut Bohnacker,Benedikt Gross,Julia Laub,2012-08-22 Generative design is a revolutionary new method of creating artwork models and animations from sets of rules or algorithms By using accessible programming languages such as Processing artists and designers are producing extravagant crystalline structures that can form the basis of anything from patterned textiles and typography to lighting scientific diagrams sculptures films and even fantastical buildings Opening with a gallery of thirty five illustrated case studies Generative Design takes users through specific practical instructions on how to create their own visual experiments by combining simple to use programming codes with basic design principles A detailed handbook of advanced strategies provides visual artists with all the tools to achieve proficiency Both a how to manual and a showcase for recent work in this exciting new field Generative Design is the definitive study and reference book that designers have been waiting for **Generative Design** Benedikt Gross,Hartmut Bohnacker,Julia Laub,Claudius Lazzeroni,2018-11-13 Generative design once known only to insiders as a revolutionary method of creating artwork models and animations with programmed algorithms has in recent years become a popular tool for designers By using simple languages such as JavaScript in p5 js artists and makers can create everything from interactive typography and textiles to 3D printed furniture to complex and elegant infographics This updated volume gives a jump start on coding strategies with step by step tutorials for creating visual experiments that explore the possibilities of color form typography and images Generative Design includes a gallery of all new artwork from a range of international designers fine art projects as well as commercial ones for Nike Monotype Dolby Laboratories the musician Bjork and others

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 **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 **Research Methods for the Digital Humanities** lewis levenberg,Tai Neilson,David Rheams,2018-11-04 This volume introduces the reader to the wide range of methods that digital humanities employ and offers a practical guide to the study interpretation and presentation of cultural material and practices In this instance the editors consider digital humanities to include both the use of computing to understand cultural material in new ways and the application of theories and methods from the humanities to interpret new technologies Each chapter provides a step by step guide to cutting edge methodologies so that students can make informed decisions about the methods they use consider ethical practices follow practical procedures and present their work effectively Readers will develop practical and reflexive understandings of the software and digital devices that they study and use for research and the book will help new researchers collaborate and contribute to their scholarly communities and to public discourse As contemporary humanities work becomes increasingly interdisciplinary and increasingly permeated by and with digital technologies this volume helps new researchers navigate an evolving academic environment Humanities and social sciences students will find this textbook an invaluable resource for assessing and creating digital projects **Seeing the Past with Computers** Kevin Kee,Timothy J Compeau,2019-02-01 Recent developments in computer technology are providing historians with new ways to see and seek to hear touch or smell traces of the past Place based augmented reality applications are an increasingly common feature at heritage sites and museums allowing historians to create immersive multifaceted learning experiences Now that computer vision can be directed at the past research involving thousands of images can recreate lost or destroyed objects or environments and discern patterns in vast datasets that could not be perceived by the naked eye Seeing the Past with Computers is a collection of twelve thought pieces on the current and potential uses of augmented reality and computer vision in historical research teaching and presentation The experts gathered here reflect upon their experiences working with new technologies share their ideas for best practices and assess the implications of and imagine future possibilities for new methods of historical study Among the experimental topics they explore are the use of augmented reality that empowers students to challenge the presentation of historical material in their textbooks the application of seeing computers to unlock unusual cultural knowledge such as the secrets of vaudevillian stage magic hacking facial recognition technology to reveal victims of racism in a century old Australian archive and rebuilding the soundscape of an Iron Age village with aural augmented reality This volume is a valuable resource for scholars and students of history and the digital humanities more broadly It will inspire them to apply innovative methods to open new paths for

conducting and sharing their own research   Out of Hand Museum of Arts and Design (New York, N.Y.),2013 Out of Hand Materializing the Postdigital will explore the many areas of 21st century creativity made possible by advanced methods of computer assisted production known as digital fabrication In today s postdigital world artists are using these means to achieve levels of expression never before possible an explosive unprecedented scope of artistic expression that extends from sculptural fantasy to functional beauty   *Generative Gestaltung* Hartmut Bohnacker,Benedikt Groß,Julia Laub,2009

Design génératif Hartmut Bohnacker,Benedikt Gross,Julia Laub,Claudius Lazzeroni,2010 Depuis quelques ann es le design g n ratif est l honneur dans les festivals audiovisuels et les conf rences Par le jeu interactif entre informations complexes conception graphique et possibilit s offertes par la programmation de nouveaux mondes fascinants mergent Les possibilit s du design g n ratif r volutionnent le r le du graphiste d utilisateur d outils num riques existants il devient le programmeur de sa propre bo te outils num rique Gigantesques les possibilit s ne concernent pas uniquement la production visuelle mais aussi le r le du designer vis vis de ses clients et de la soci t dans son ensemble Ce livre d voile les fondamentaux qui ouvrent les portes du design g n ratif   GENERATIVE DESIGN 　　　　　　　,　　　　　　,　　　,2016-02-24 Processing Generative Design

The book delves into Generative Design Visualize Program And Create With Processing Hartmut Bohnacker. Generative Design Visualize Program And Create With Processing Hartmut Bohnacker is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Generative Design Visualize Program And Create With Processing Hartmut Bohnacker, encompassing both the fundamentals and more intricate discussions.

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