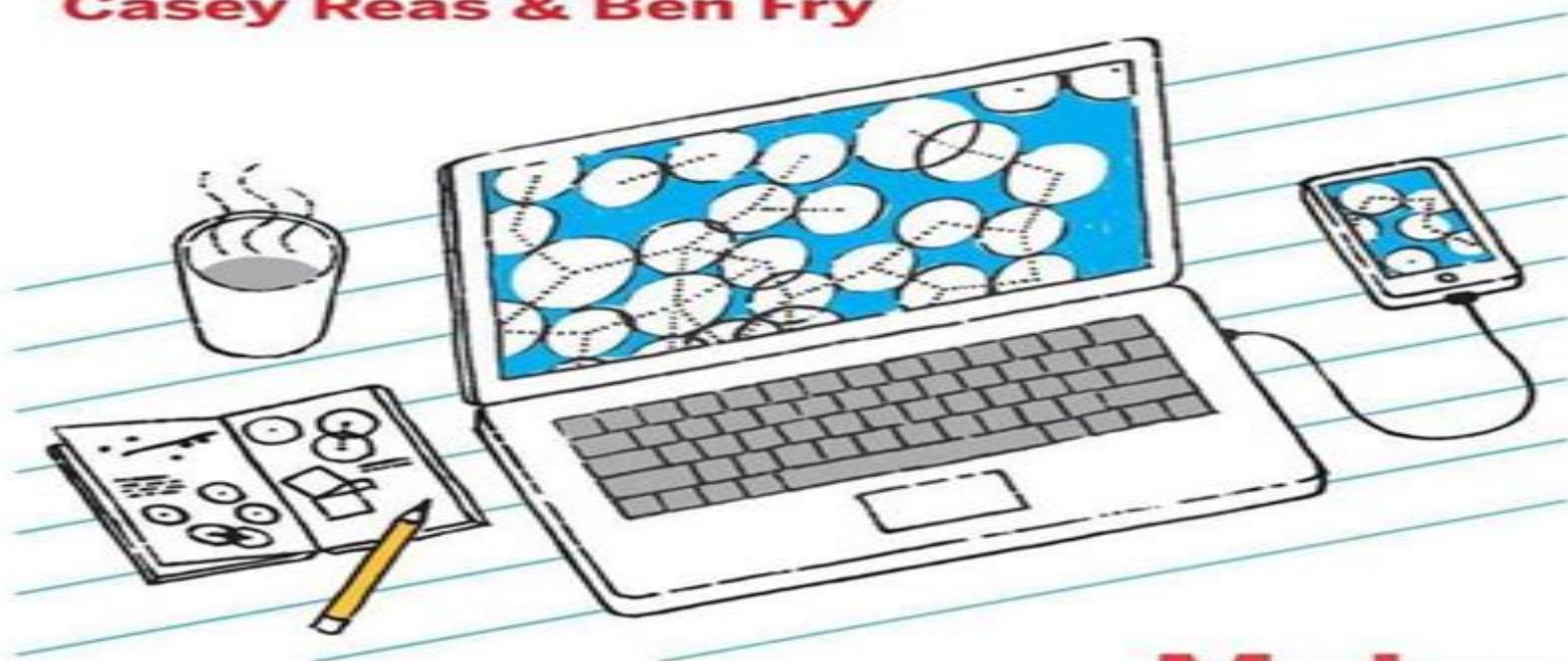


Make: PROJECTS

A HANDS-ON
INTRODUCTION
TO MAKING
INTERACTIVE
GRAPHICS

Getting Started with Processing

Casey Reas & Ben Fry



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Arduino compatible one third the price and low power the Trinket lets you make inexpensive and powerful programmable electronic projects Written by one of the authors of Adafruit's Trinket documentation Getting Started with Trinket gets you up and running quickly with this board and gives you some great projects to inspire your own creations *Beginning Arduino Programming* Brian Evans, 2011-12-17 Beginning Arduino Programming allows you to quickly and intuitively develop your programming skills through sketching in code This clear introduction provides you with an understanding of the basic framework for developing Arduino code including the structure syntax functions and libraries needed to create future projects You will also learn how to program your Arduino interface board to sense the physical world to control light movement and sound and to create objects with interesting behavior With Beginning Arduino Programming you'll get the knowledge you need to master the fundamental aspects of writing code on the Arduino platform even if you have never before written code It will have you ready to take the next step to explore new project ideas new kinds of hardware contribute back to the open source community and even take on more programming languages **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 *Processing* Ira Greenberg, 2007-12-31 If you're interested in creating cutting edge code based art and animations you've come to the right place Processing available at www.processing.org is a revolutionary open source programming language and environment designed to bridge the gap between programming and art allowing non programmers to learn programming fundamentals as easily as possible and empowering anyone to produce beautiful creations using math patterns With the software freely available Processing provides an accessible alternative to using Flash for creative coding and computational art both on and off the Web This book is written especially for artists designers and other creative professionals and students exploring code art graphics programming and computational aesthetics The book provides a solid and comprehensive foundation in programming including object oriented principles and introduces you to the easy to grasp Processing language so no previous coding experience is necessary The book then goes through using Processing to code lines curves shapes and motion continuing to the point where you'll have mastered Processing and can really start to unleash your creativity with realistic physics interactivity and 3D In the final chapter you'll even learn how to extend your Processing skills by working directly with the

powerful Java programming language the language Processing itself is built with **Pro Processing for Images and Computer Vision with OpenCV** Bryan WC Chung, 2017-08-26 Apply the Processing language to tasks involved in computer vision tasks such as edge and corner detection recognition of motion between frames in a video recognition of objects matching of feature points and shapes in different frames for tracking purposes and more You will manipulate images through creative effects geometric transformation blending of multiple images and so forth Examples are provided Pro Processing for Images and Computer Vision with OpenCV is a step by step training tool that guides you through a series of worked examples in linear order Each chapter begins with a basic demonstration including the code to recreate it on your own system Then comes a creative challenge by which to engage and develop mastery of the chapter s topic The book also includes hints and tips relating to visual arts interaction design and industrial best practices This book is intended for any developer of artistic and otherwise visual applications such as in augmented reality and digital effects with a need to manipulate images and to recognize and manipulate objects within those images The book is specifically targeted at those making use of the Processing language that is common in artistic fields and to Java programmers because of Processing s easy integration into the Java programming environment What You ll Learn Make use of OpenCV the open source library for computer vision in the Processing environment Capture live video streams and examine them frame by frame for objects in motion Recognize shapes and objects through techniques of detecting lines edges corners and more Transform images by scaling translating rotating and additionally through various distortion effects Apply techniques such as background subtraction to isolate motion of objects in live video streams Detect and track human faces and other objects by matching feature points in different images or video frames Who This Book Is For Media artists designers and creative coders

Processing for Android Andrés Colubri, 2017-11-02 Learn how to use the Processing programming language and environment to create Android applications with ease This book covers the basics of the Processing language allowing users to effectively program interactive graphics in 2D and 3D It also details the application of these techniques to different types of Android devices smartphones tablets wearables and smartwatches Processing for Android walks you through the steps of taking an initial idea to a final app With this book you will be able to write engaging apps with interactive visuals driven by motion and location information obtained from the device s sensors including health data from the wearer like step count and heart rate An advantage of Processing for Android over more complex programming environments is the ability for users to focus on the interactions and visual output of their code rather than in the implementation details of the Android platform This book goes through a comprehensive series of hand on projects ranging from simple sketches to more complex projects involving sensors and integration with larger apps It also covers important aspects such as exporting your Processing projects as signed apps are ready to upload to the Google Play store and be share with the world What You ll Learn Write apps and live wallpapers for smartphones and tablets Design and implement interactive watch faces Create Virtual Reality

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Processing Casey Reas, Ben Fry, 2007 An introduction to the ideas of computer programming within the context of the visual arts that also serves as a reference and text for Processing an open source programming language designed for creating images animation and interactivity **Getting Started With Processing** Casey Reas, 2016 [Getting Started with p5.js](#) Lauren McCarthy, Casey Reas, Ben Fry, 2015-10-12 With p5.js you can think of your entire Web browser as your canvas for sketching with code Learn programming the fun way by sketching with interactive computer graphics *Getting Started with p5.js* contains techniques that can be applied to creating games animations and interfaces p5.js is a new interpretation of Processing written in JavaScript that makes it easy to interact with HTML5 objects including text input video webcam and sound Like its older sibling Processing p5.js makes coding accessible for artists designers educators and beginners Written by the lead p5.js developer and the founders of Processing this book provides an introduction to the creative possibilities of today's Web using JavaScript and HTML With *Getting Started with p5.js* you'll quickly learn programming basics from variables to objects Understand the fundamentals of computer graphics Create interactive graphics with easy to follow projects Learn to apply data visualization techniques Capture and manipulate webcam audio and video feeds in the browser *Design Life Now* Barbara J. Bloemink, 2006 *Design Life Now* National Design Triennial 2006 features eighty seven individuals and companies that are changing the face of design including Pixar Apple Google Nike Target Narciso Rodriguez Tobias Wong Santiago Calatrava Herman Miller and NASA book jacket **The Art of Experimental Interaction Design** Andy Cameron, 2004 Individual profiles of interaction design work from 30 studios and individuals around the world Includes profiles of Antenna Fabrica Benetton Centre for Communication Research IDEO Rafael Lozano Hemmer and Tomato **MAKE** BEN FRY. CASEY REAS, 2016 *Digit*, 2005 *Cyberarts*, 2005 *Neural*, 2007

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