

Introduction to Creative Coding with Processing

Week 1 - Course Overview and Basics
Thomas Deacon, 2019

Topics

- Programming
- Interaction design
- Information visualization
- Generative art
- Device interconnection
- Multimedia projects

Platforms

- Processing (java)
- Arduino
- Open Sound Control

Useful Resources

WWW

- [Processing.org Tutorials](#)
- Kadenze - [Introduction to Programming for the Visual Arts with p5.js](#)
- [OpenProcessing.org](#) - website where people post sketches, get ideas, steal and break stuff

Useful Resources

Books

- [Getting Started with Processing, O'Reilly, Reas & Fry, 2015](#) (~Basic)
- [Data Driven Graphic Design, Bloomsbury, Richardson, 2016](#) (~Intermediate)
- [Algorithms for Visual Design Using the Processing Language, Wiley, Terzidis, 2009](#) (~Advanced)

What is code?

- Informal way of talking about computer programming and source code.
- Code is used to make software, Apps, websites, experiences.

Programming Languages

Sooooo many!

HTML JavaScript C Perl C++ LISP
C# Servlet Java ASP Python JSP
Visual Basic Processing Alice LISP
Fortran Pascal Smalltalk Go Python

<http://99-bottles-of-beer.net/>

What is Programming?

- Sets of instructions:
 - Building Blocks: nouns (describe data) and verbs (process);
 - Syntax: grammar (and punctuation)
- that can:
 - represent data (in data structures)
 - express algorithms (using control commands)

Computing is a medium

Not just a calculator.

Interactivity

Motion

Audio Visual Design

Affect

Process

Processing vs p5.js

[Difference](#)

[Transition from processing to p5](#)

Use the one that works for you!

.now we work.

<https://github.com/VizRCA/intro-to-creative-coding>