

# Christian Swinehart

DATA / DESIGN / DEVELOPMENT

## EDUCATION

### R.I.S.D. (2008)

M.F.A. | Graphic Design

### BRANDEIS UNIVERSITY (2005)

Ph.D. | Neuroscience

### DICKINSON COLLEGE (1998)

B.S. | Cognitive Science

## SKILLS

### PROGRAMMING LANGUAGES

Python, Javascript, Objective C, C, Java, Perl, ActionScript, Lisp

### GRAPHICS ENVIRONMENTS

Canvas, SVG, D3, Three.js, CoreGraphics, PlotDevice, Processing, MATLAB

### DATA ANALYSIS

NumPy, Pandas, Seaborn, SQL, Matplotlib, BeautifulSoup

### SERVER-SIDE

Nginx, Apache, CouchDB, Node.js, Tornado, Handlebars, Less, Babel

### APPLICATIONS

Illustrator, InDesign, Sketch, Photoshop, Max/MSP

## SEE ALSO

### OPEN SOURCE LIBRARIES

PlotDevice <[plotdevice.io](http://plotdevice.io)>  
Arbor.js <[arborjs.org](http://arborjs.org)>  
Corduroy <[samizdat.cc/corduroy](http://samizdat.cc/corduroy)>  
Xyzzy <[xyzyzy.io](http://xyzyzy.io)>

### CODE REPOSITORY

[github.com/samizdatco](https://github.com/samizdatco)

### CONTACT

[drafting@samizdat.cc](mailto:drafting@samizdat.cc)

### PORTFOLIO

[samizdat.cc](http://samizdat.cc)

## EXPERIENCE

### DESIGN PARTNER (2010–)

Office of Unspecified Services | Brooklyn, N.Y.

Recent clients include The New York Times, Citibank, Yale, Ennead, Diller Scofidio + Renfro, Allied Works, and Mitch Epstein.

### ADJUNCT PROFESSOR (2017–)

Parsons Data Visualization Program | New York, N.Y.

Currently teaching *Data Visualization & Information Aesthetics* in the Fall and supervising masters thesis projects in *Major Studio II* in the Spring.

### PART-TIME FACULTY (2015–2017)

Rhode Island School of Design | Providence, R.I.

Created and taught an elective in the Graphic Design department called *Lies, Damned Lies, and Data Visualization* for three years and co-taught a semester of *Graduate Studio I*.

### VISUALIZATION DEVELOPER (2011–2013)

Bloomberg Visual Data | New York, N.Y.

Data visualization, user interface consulting, and development of interactive products covering politics, society, and the economy.

### INTERACTIVE DESIGNER (2007–2010)

Pentagram | New York, N.Y.

User experience and development on Lisa Strausfeld's National Design Award winning team. Clients included Gallup, Lincoln Center, OLPC, Litl, and the Museum of Arts and Design.

## SELECTED WORKS

### ONE BOOK, MANY READINGS <[samizdat.cc/cyoo](http://samizdat.cc/cyoo)>

An infographical investigation into the Choose Your Own Adventure books of my youth. The project examines the structure of choices in the books and plots changes in their composition over time. Animations allow you to see patterns among the many unique paths through each of the books.

### PLOT DEVICE <[plotdevice.io](http://plotdevice.io)>

PlotDevice is a Macintosh application used for computational graphic design. It provides an interactive Python environment where you can create two-dimensional graphics and output them in a variety of vector, bitmap, and animation formats. It is meant both as a sketch environment for exploring generative design and as a general purpose graphics library for use in external Python programs.

### ARBOR.JS <[arborjs.org](http://arborjs.org)>

In a number of projects I've made use of force-directed layout routines for constructing network diagrams. Arbor is a javascript library that abstracts away the physics simulation and provides hooks for rendering the resulting graphs in the developer's choice of canvas, SVG, or HTML.