

Processing Workshop

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data visualization / generative drawing / interaction

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Intro

What is Processing?

open source programming language and environment for people who want to program images, animation and interactions data visualization, generative drawings, print based design, video production, tangible installations etc.

Aims?

- teach the basics of computer programming in a visual context, to get non-programmers started to work with coding through an instant graphical feedback
- ... used as a prototype tool

Generative Art and Design..

– tool vs strategy

„Generative” software art, as it is usually understood today, is artwork-
which uses mathematical algorithms to automatically or semi-automatically
generate expressions in more conventional artistic forms.“ (Golan Levi)

possibilities

Data Visualization / Mapping

••••• in information design to communicate the relations of data, data presentation can be beautiful, elegant and descriptive

Data Visualization / Mapping:

- Flight Patterns
- Poetry on the road
- Eurovision 2009
- Cascade on wheels
- News Knitter

Data Visualization / Mapping

good resources:

<http://infosthetics.com/>

<http://www.visualcomplexity.com/>

<http://www.informationisbeautiful.net/>

<http://www.smashingmagazine.com/2007/08/02/data-visualization-modern-approaches/>

Interaction

screenbased, tangible

- Maeve installation
- Roots
- Games: quick chick

Performance

... BodyNavigation

... Marius Watz

Relations to...

... Design by numbers (John Maeda) first initiative at MIT

... Arduino, Wiring, Fritzing

... mobile Processing, Processing.js

more links:

- ...➤ Generator X, art from code
- ...➤ Casey Reas
- ...➤ Ben Frey
- ...➤ Golan Levi
- ...➤ Daniel Shiffmann
- ...➤ openProcessing
- ...➤ ProcessingBlogs

how to ...