

Data Projects

- NYTimes Cascade
- Just Landed
- Deutsche Telekom
- New York Talk Exchange
- Immigration to the US
- US Expansion seen through USPS
- Afghanistan activity via Wikileaks
- Flight Patterns
- Amsterdam SMS New Years Eve

Processing Intro

- Great tutorials:
 - <http://processing.org/learning/gettingstarted>
 - <http://processing.org/learning/overview>
- We're not using the Android or JavaScript output functions so examples based on version 1.5.x. Version 2.x ok.
- Folders: `~/processing/sketch`, `/library`, `/data`
- Adding libraries: `oscP5`, `Carnivore`
- Output formats: `Applet` or `Application`
- `setup` and `draw` and variable declarations

Data Types and Conditioning

In this workshop we are concentrating on network text based sources. Sources could also be local files, images, video, or raw bytes.

- Be a good steward of Data. Know your copyrights.
- Often preprocess data with other programs (Python/Perl). Get data and save to local file, then process.
- Start looking for data with a web browser (e.g. xml weather feeds).
- Reading lines of text. `loadStrings()`, `BufferedReader`
- Synchronous vs. Asynchronous

Parsing Data

- Look at the data first (I use TextWrangler).
- Tab and Comma Separated Values (TSV, CSV)
- HTML/XML and Tidy and Swing (preprocessing parsers)
- JSON: JavaScript Object Notation

MacPorts

- <http://www.macports.org>
- Great for convenient unix utilities not found in BSD Unix:
 - `wget`, `iperf`
- Those that are found in BSD:
 - `ping`, `tcpdump`, `curl`