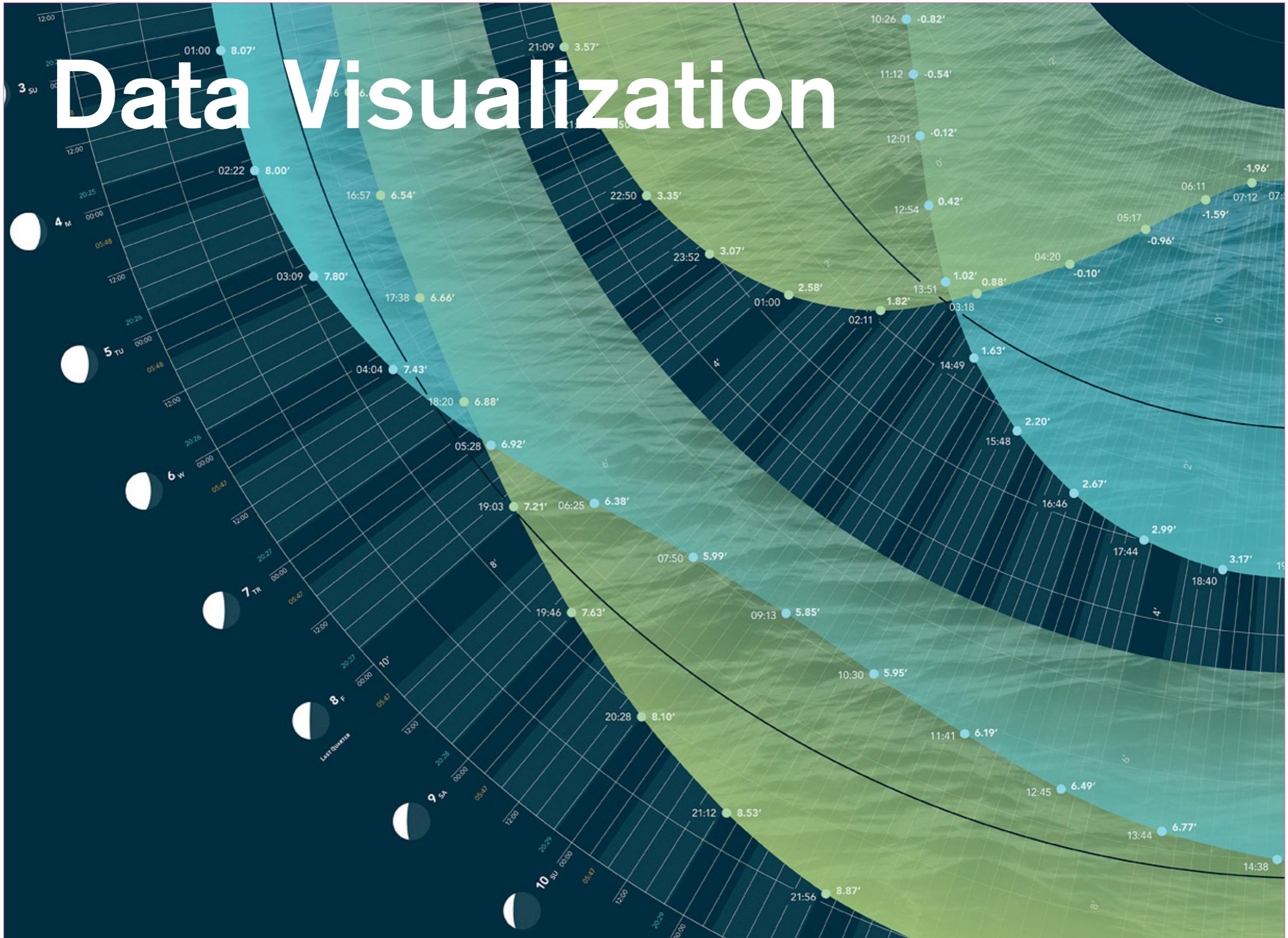


Data Visualization



Data Visualization

FAHRPLAN

Data

METHODS OF DATA-ACQUISITION
RESSOURCES

Visualization

DIAGRAMS
GRAPHS
MAPPING
PATTERN & TEXTURES
TYPOGRAPHICS

Data Visualization

VISUALIZING A XML
BUILDING AND USING SQL
GRAPHING AN API

Data Visualization

METHODS OF DATA-ACQUISITION

- manual (counting, collecting, etc.)
- sensors (camera, light-sensors, temperature, moving sensors, etc.)
- automatic generated logfiles and simulations

ADVANTAGE OF AUTOMATIC GENERATED DATA / VISUALIZATION

- more efficient and accurate
- 24/7
- realtime

Data Visualization

RESSOURCES

FILES

- csv
- xml
- proprietary file-formats (PDF, SVG, etc.)

DATABASES

- MySQL
- SQLite
- Odbc

DEVICES

- video
- audio
- serial devices
- sensors/micro controllers

APIs

- Last.fm
- Google
- Wikipedia
- Twitter
- Facebook

Data Visualization

DIAGRAMS

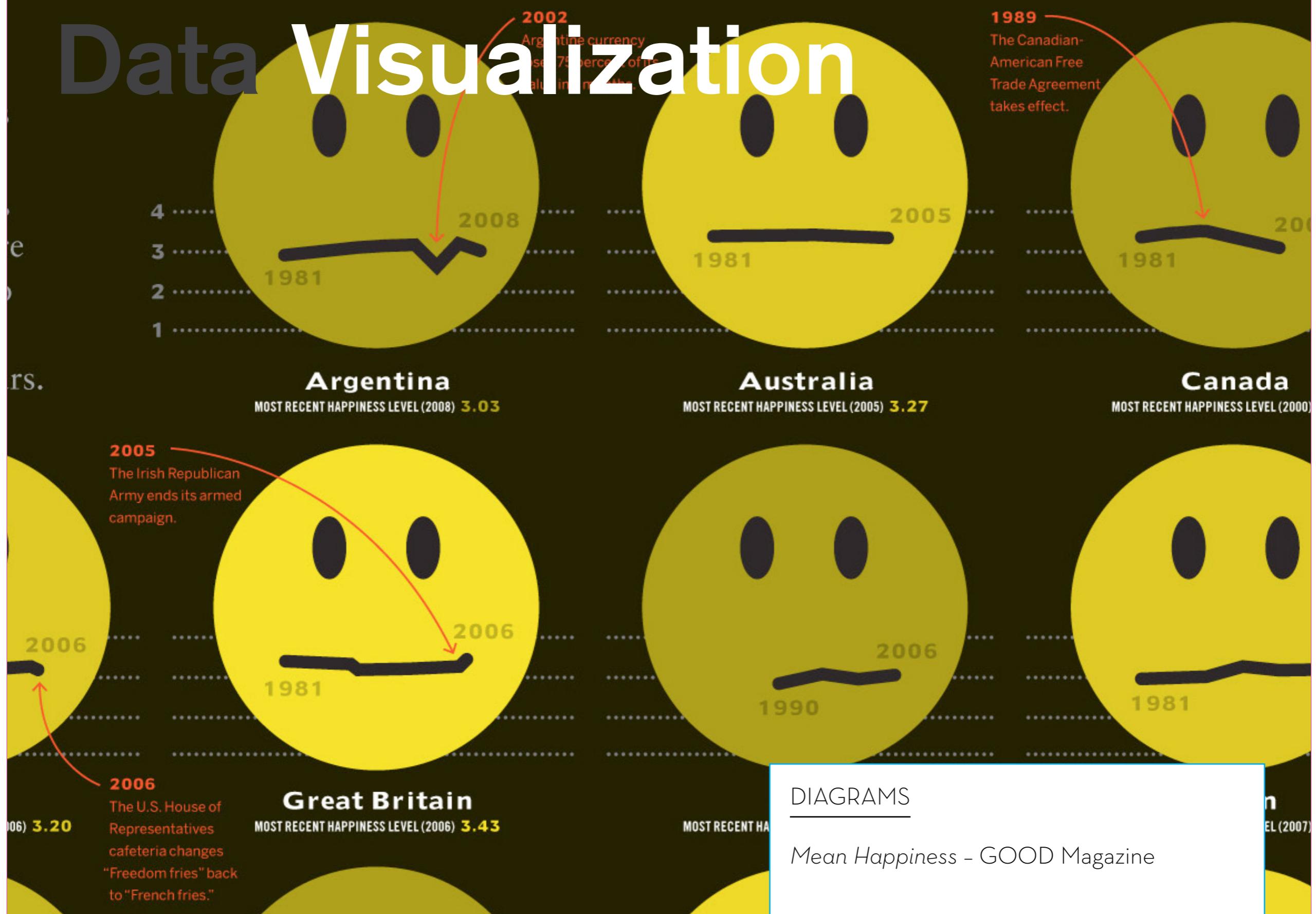
GRAPHS

MAPPING

PATTERN & TEXTURES

TYPOGRAPHICS

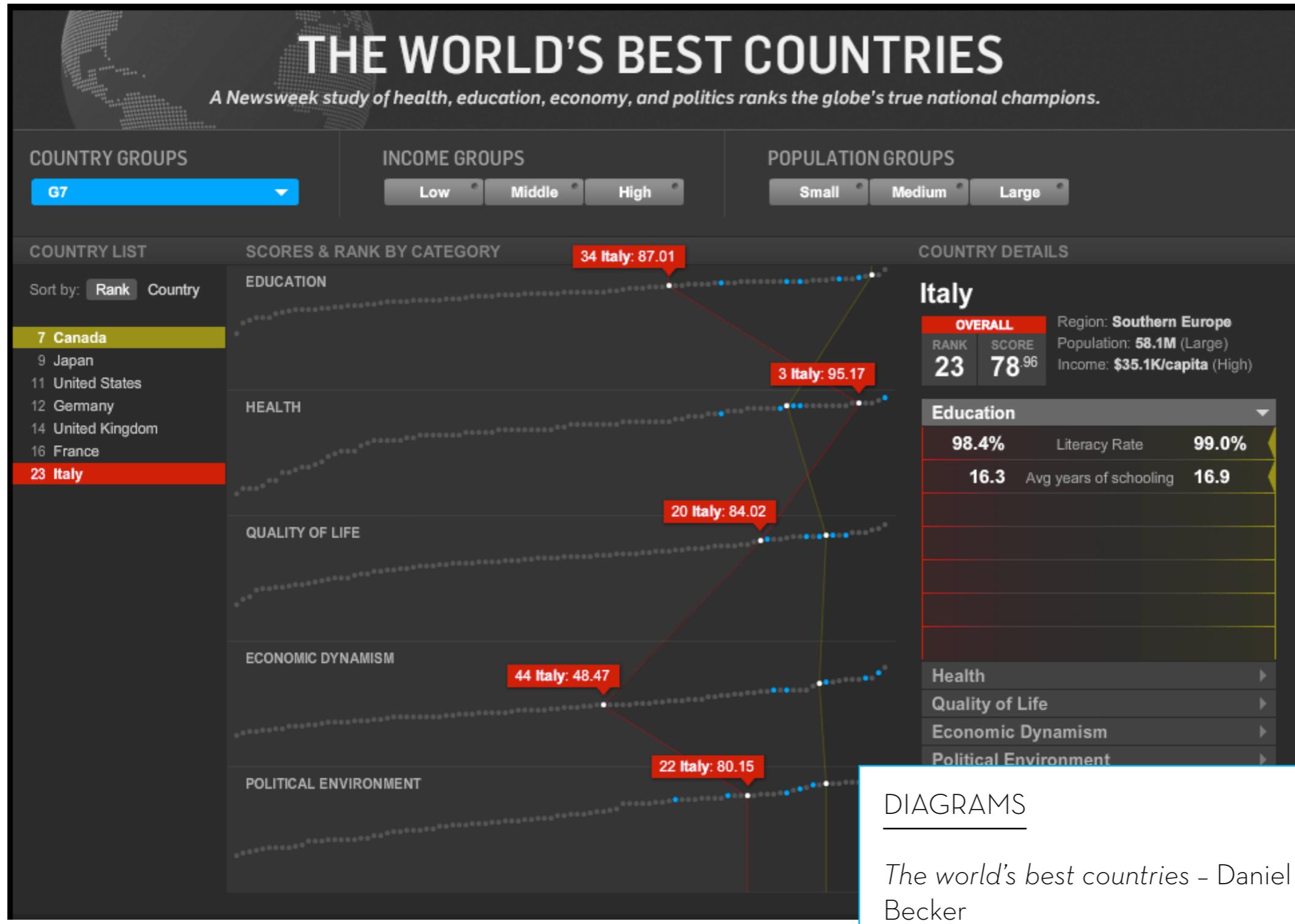
Data Visualization



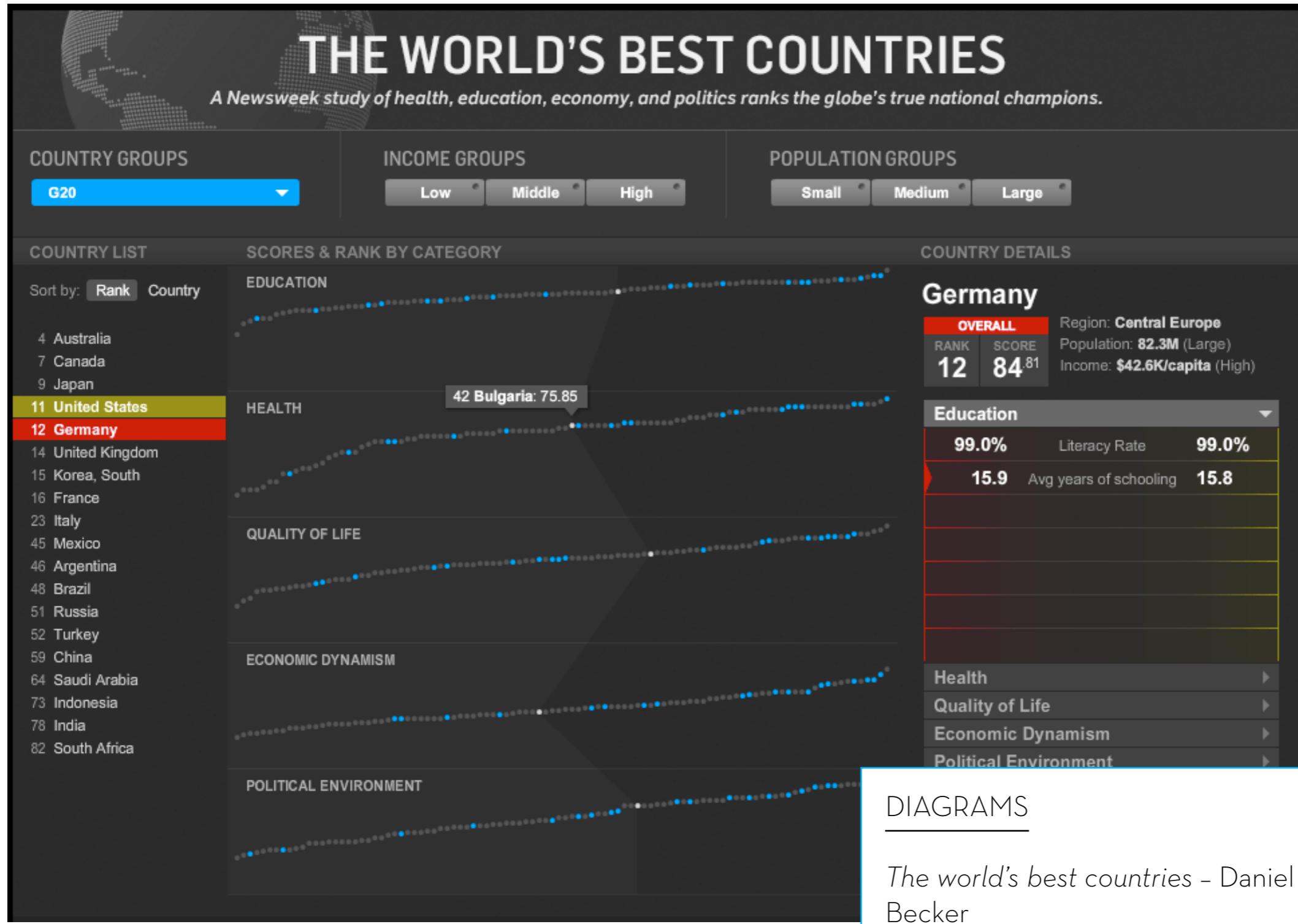
DIAGRAMS

Mean Happiness – GOOD Magazine

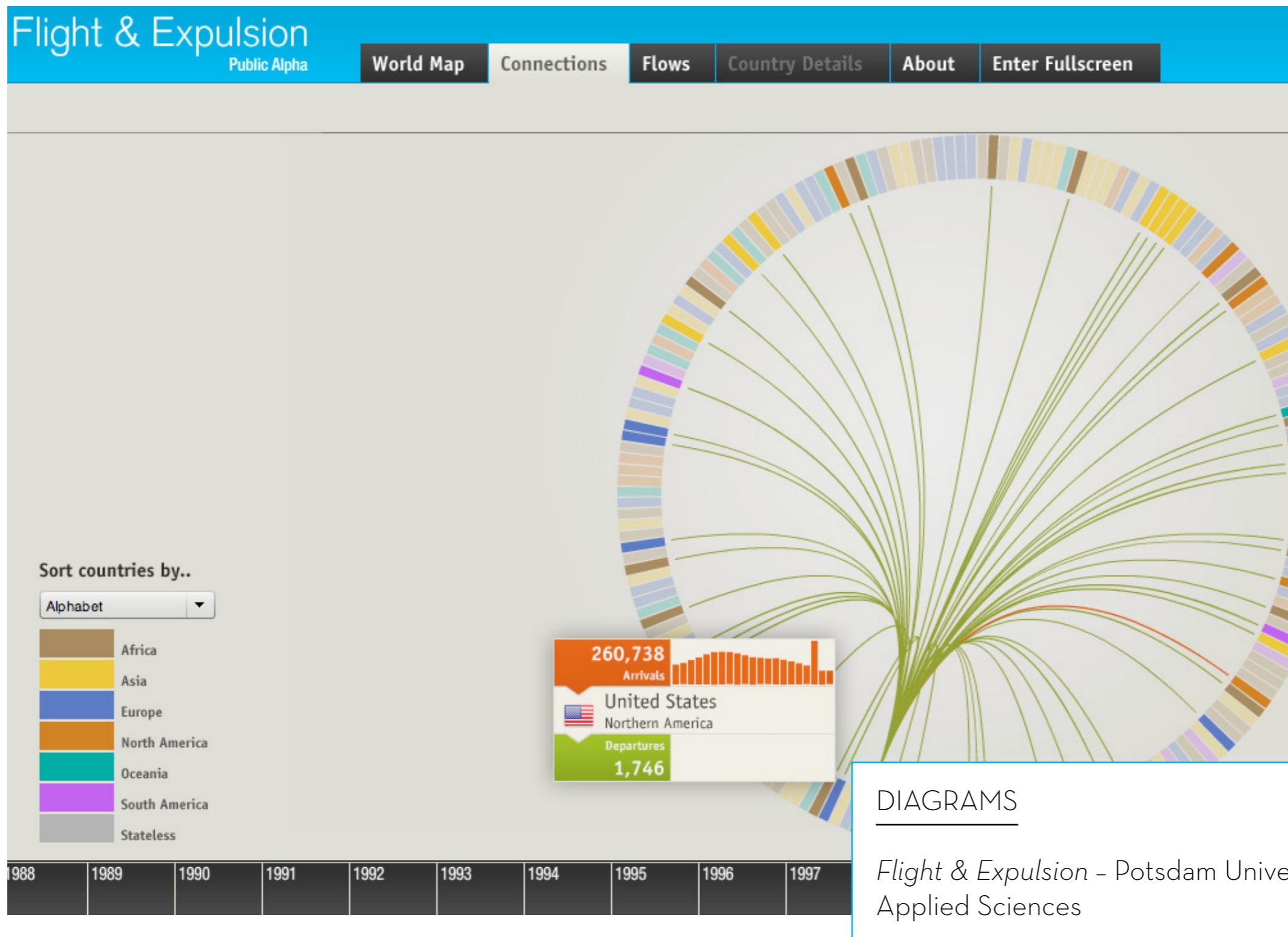
Data Visualization



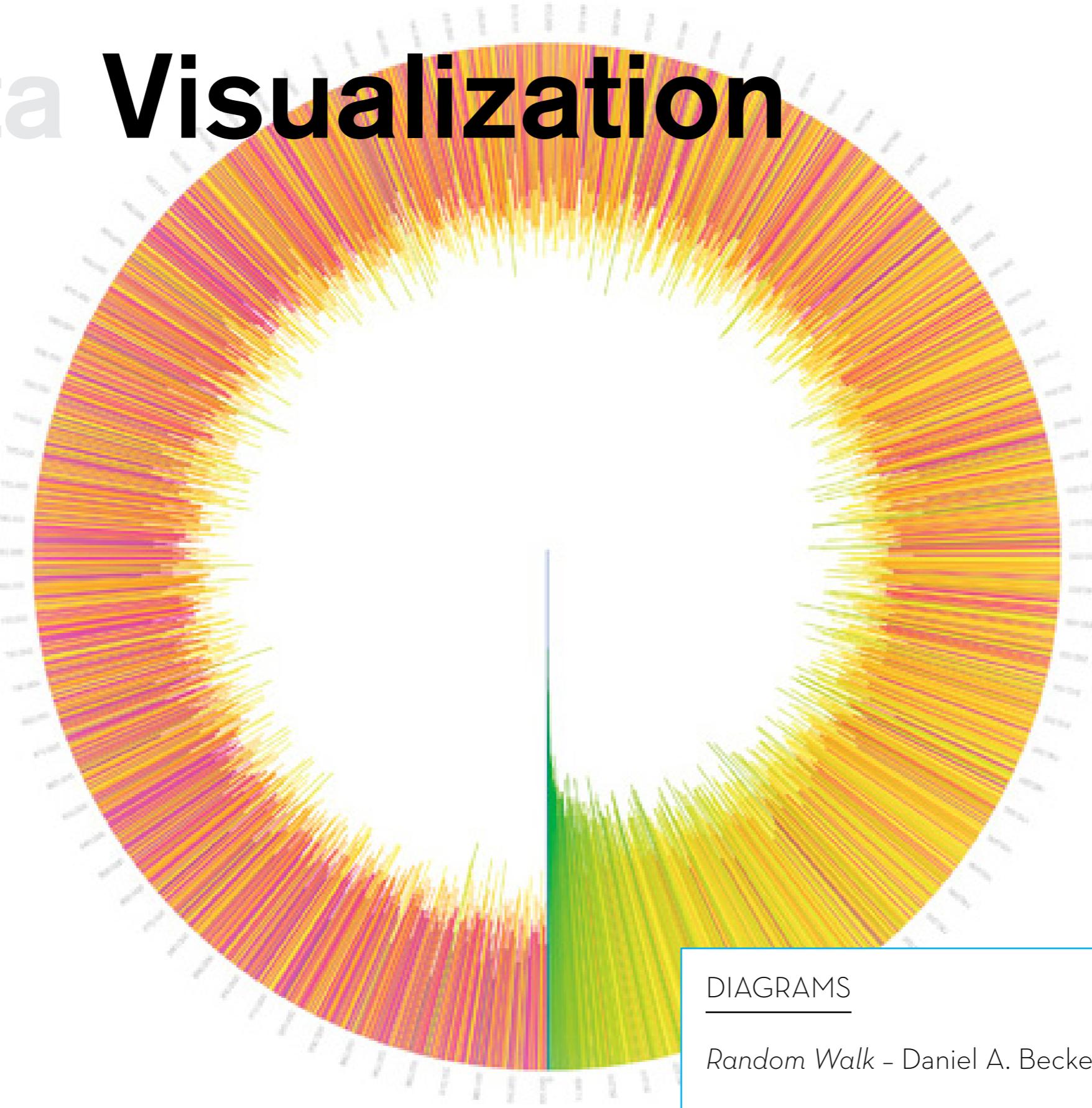
Data Visualization



Data Visualization



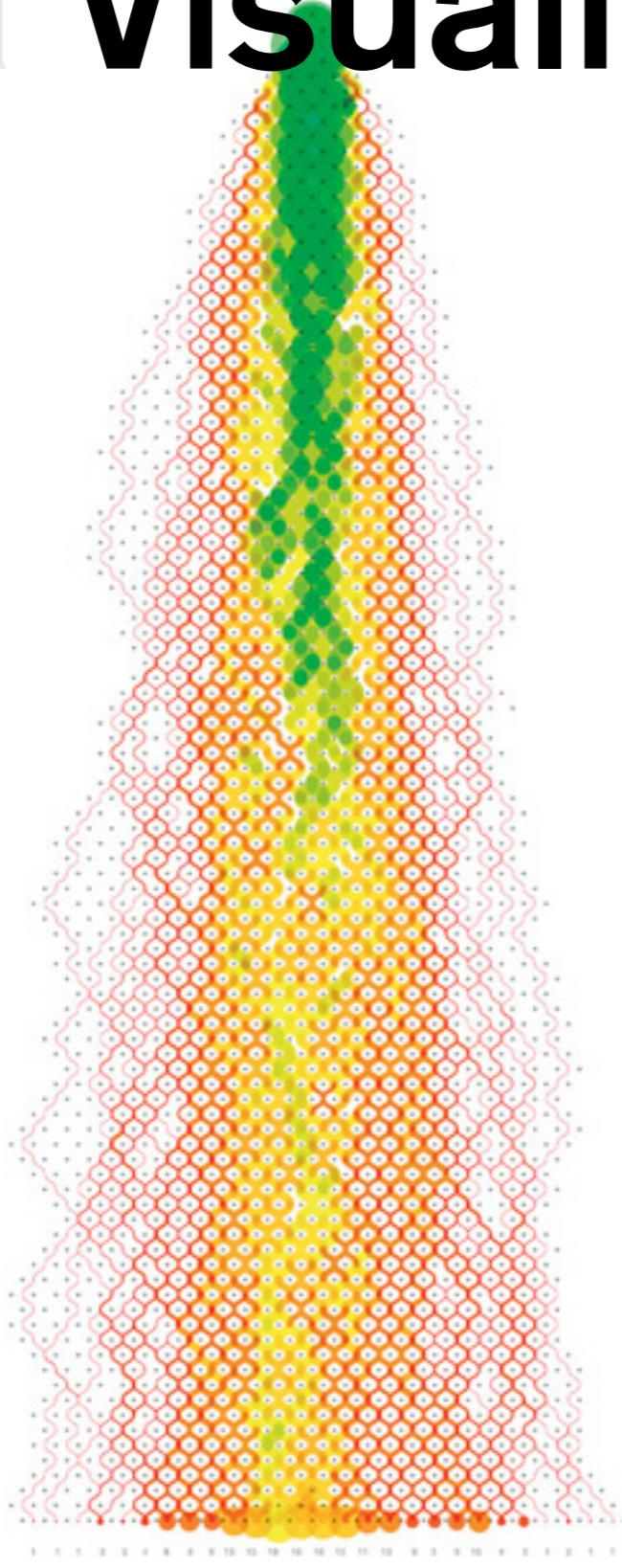
Data Visualization



DIAGRAMS

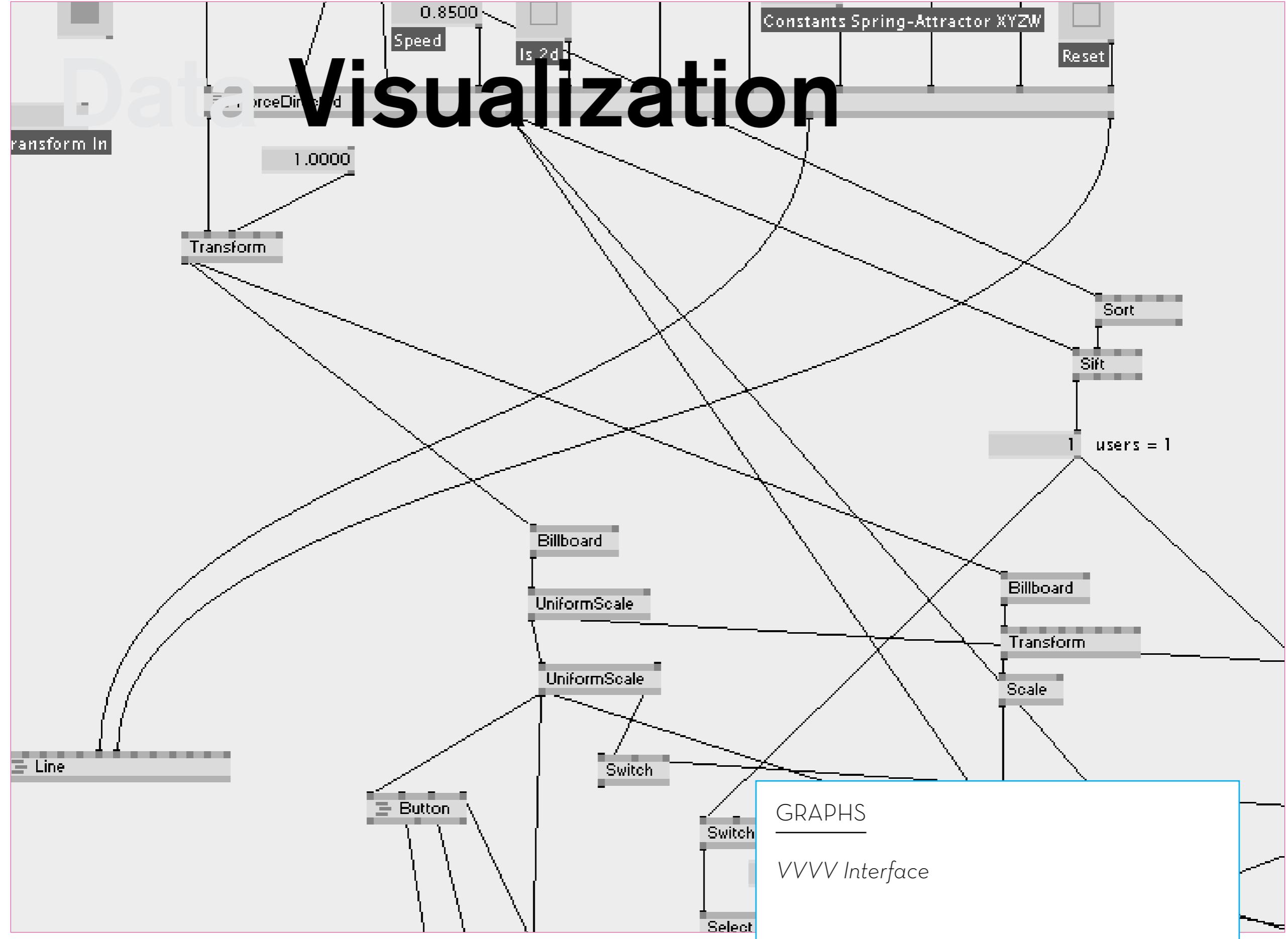
Random Walk - Daniel A. Becker

Data Visualization



GRAPHS

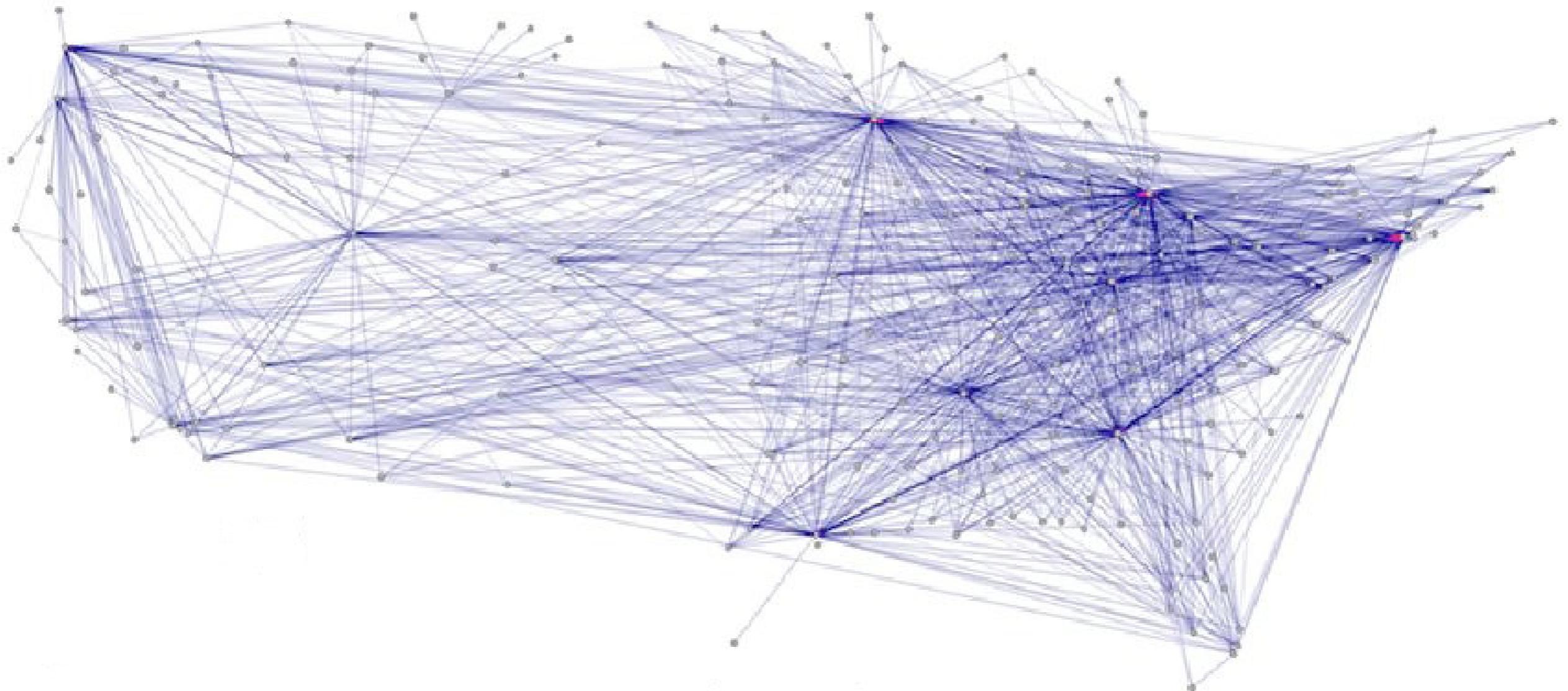
Random Walk - Daniel A. Becker



GRAPHS

VVVV Interface

Data Visualization



GRAPHS

Graph Visualization with Edge Bundling -
Danny Holten & Jarke J. van Wijk

Data Visualization



GRAPHS

*Graph Visualization with Edge Bundling -
Danny Holten & Jarke J. van Wijk*

Data Visualization

MAPPING

Geotaggers' World Atlas – Eric Fisher

Data visualization

MAPPING

Geotaggers' World Atlas – Eric Fisher

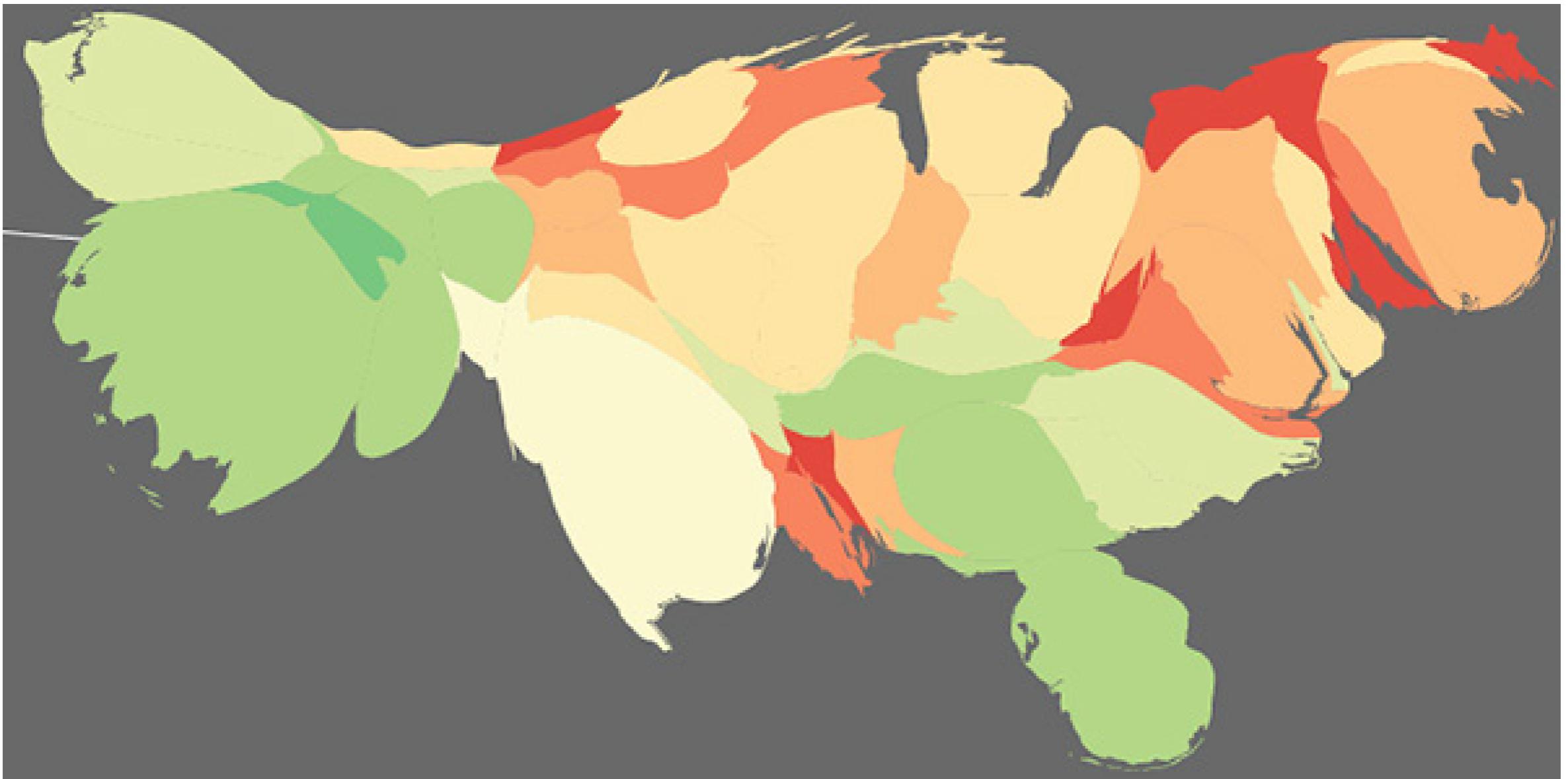
Data Visualization



MAPPING

The True Size Of Africa - Kai Krause

Data Visualization



MAPPING

Pulse of the Nation – Northeastern University

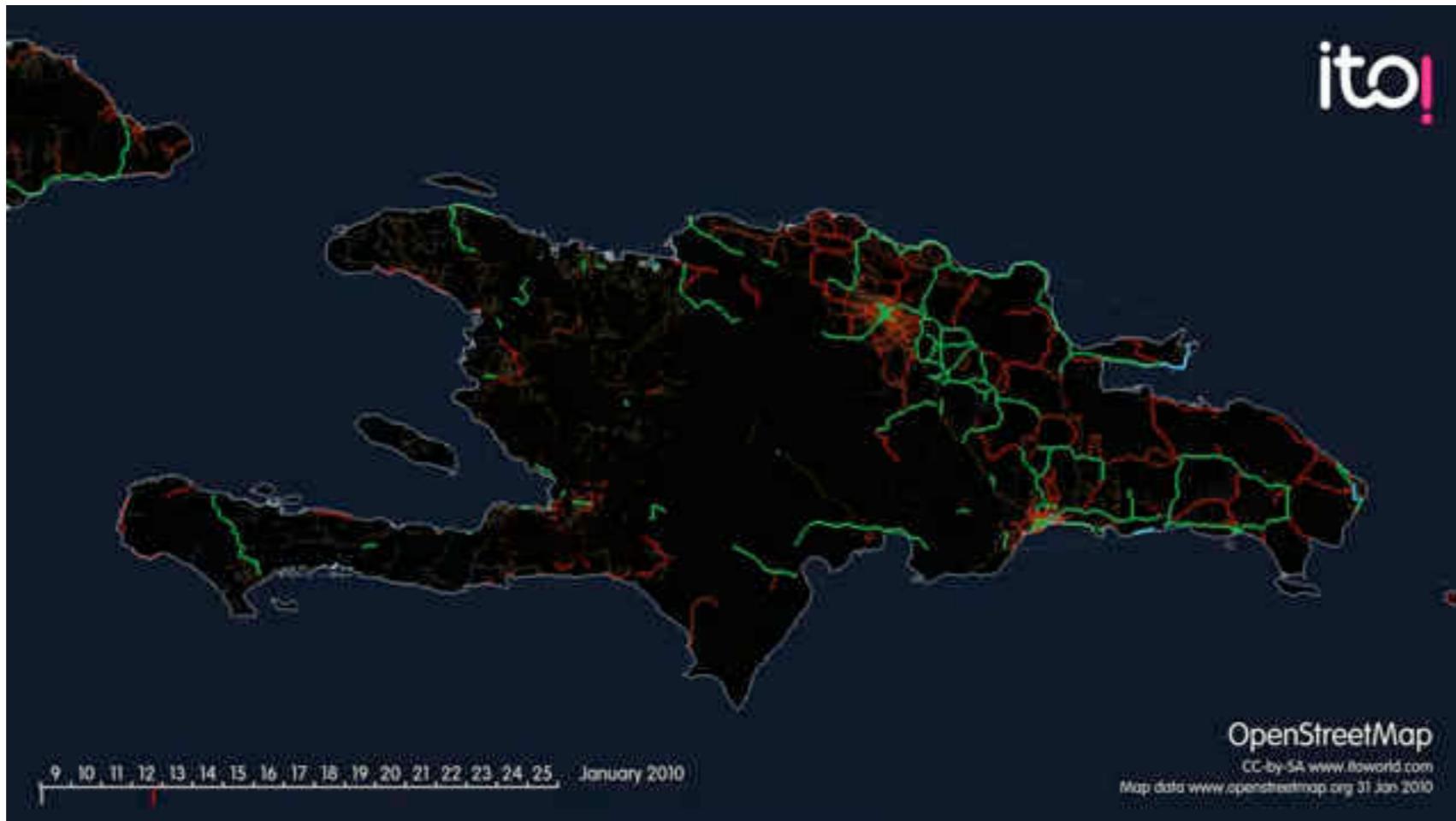
Data Visualization

Pulse of the Nation:
U.S. Mood Throughout the Day inferred from Twitter

Less Happy  More Happy

<http://www.ccs.neu.edu/home/amislove/twittermood>

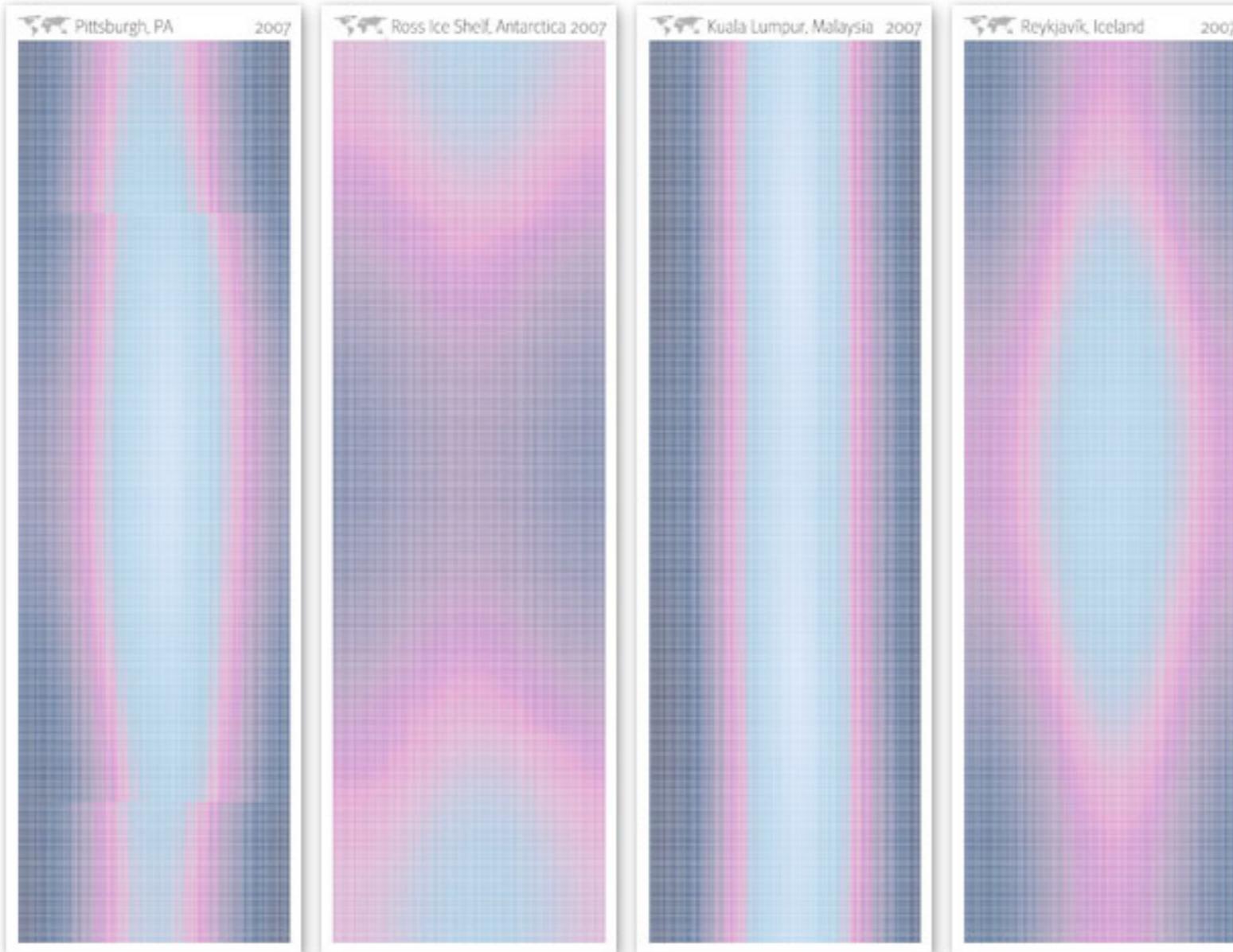
Data Visualization



MAPPING

Project Haiti - Open Street Maps

Data Visualization



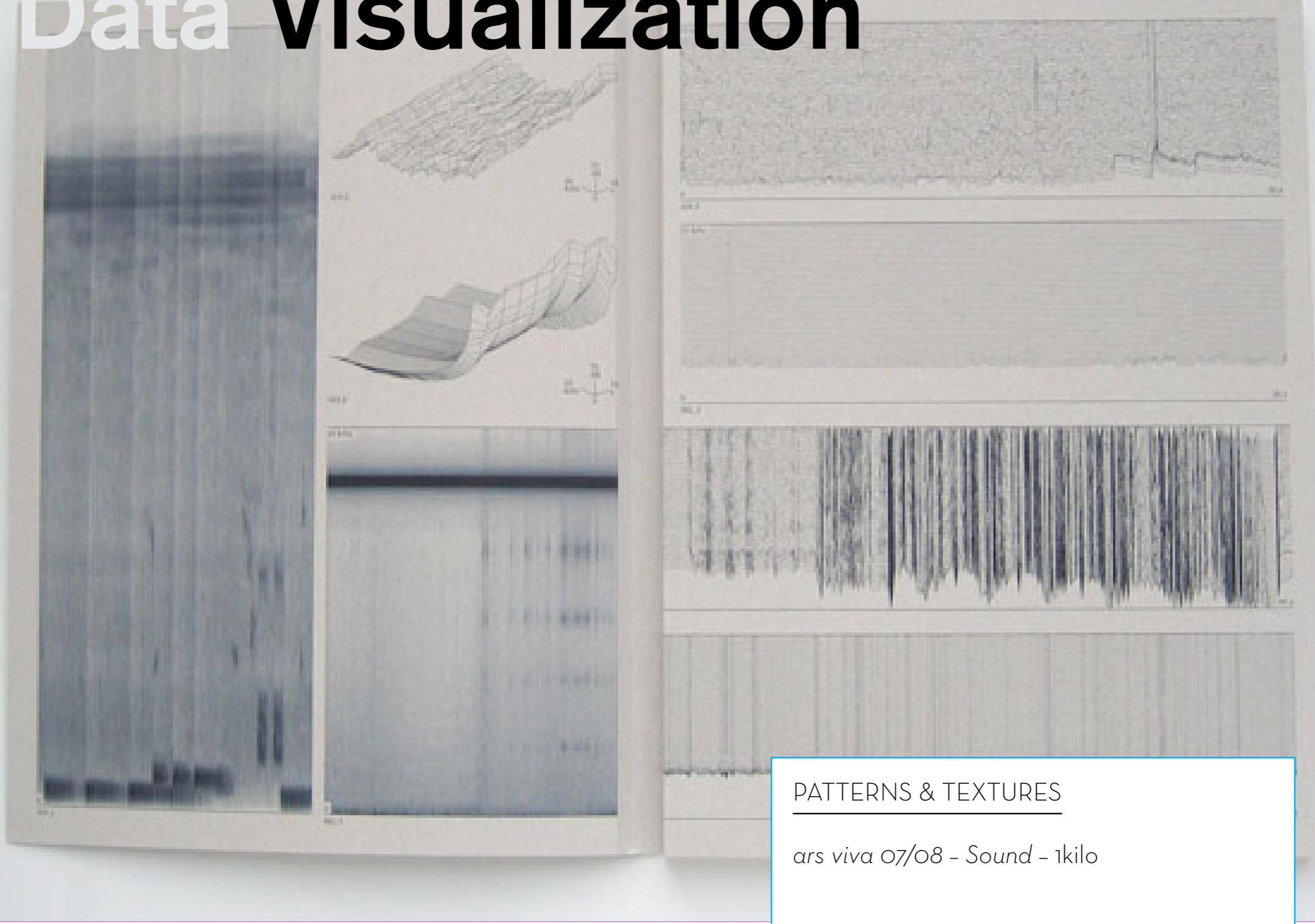
Pitts



PATTERNS & TEXTURES

Sunlight Calendar – Lee Byron

Data Visualization



PATTERNS & TEXTURES

ars viva 07/08 - Sound - 1kilo

Data Visualization

TYPOGRAPHICS

Understanding Shakespear - Stephan Thiel

Data Visualization



TYPOGRAPHICS

Understanding Shakespear – Stephan Thiel

Data Visualization



TIME: 00:20:56 DATE: 2 NOV 2004 SPEAKER: SE
SOSOLIMITED ELECTION NIGHT AT RIVER GODS

0 1 2 3 4 5 6 7 8 9

TYPOGRAPHICS

Election Night - Sosolimited

Data Visualization



TYPOGRAPHICS

Election Night - Sosolimited

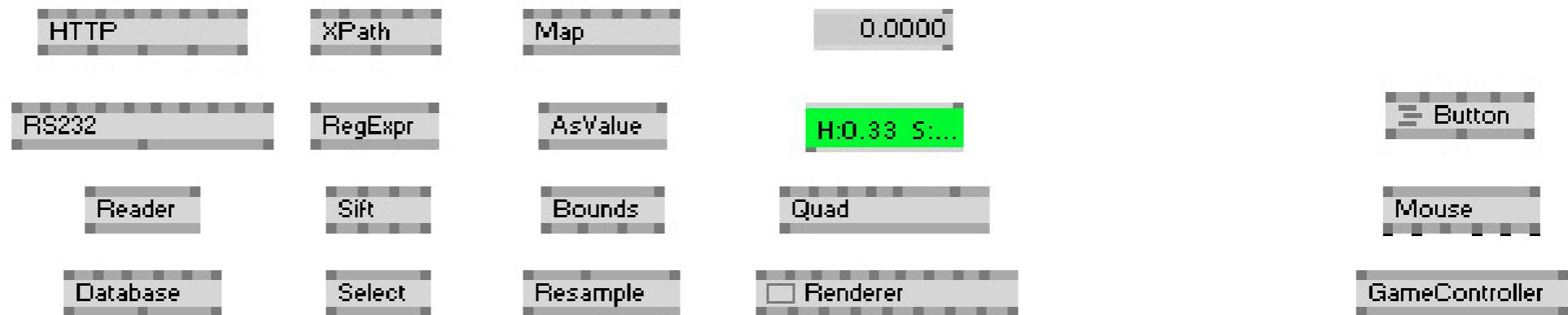
Data Visualization

acquire	parse	filter	mine	represent	refine	interact
live or changing data sources	modular parsers for new data sources	automation of tedious manual processes modify filter in real-time	modify parameters of statistical methods in real-time	rapid prototyping and iteration juxtapose large amounts of data try multiple representations	change design rules without manual redesign computation as its own "medium"	smooth transition between states to maintain context additional information as viewpoint shifts

THE PROCESS

computational information design - Ben Fry

Data Visualization

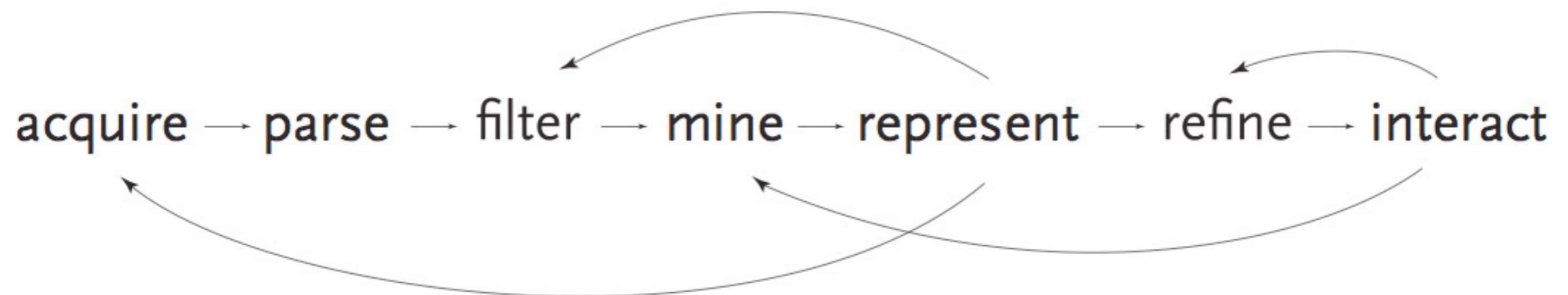


acquire	parse	filter	mine	represent	refine	interact
live or changing data sources	modular parsers for new data sources	automation of tedious manual processes modify filter in real-time	modify parameters of statistical methods in real-time	rapid prototyping and iteration juxtapose large amounts of data try multiple representations	change design rules without manual redesign computation as its own "medium"	smooth transition between states to maintain context additional information as viewpoint shifts

THE PROCESS

computational information design - Ben Fry

Data Visualization



THE PROCESS

computational information design - Ben Fry

Data Visualization

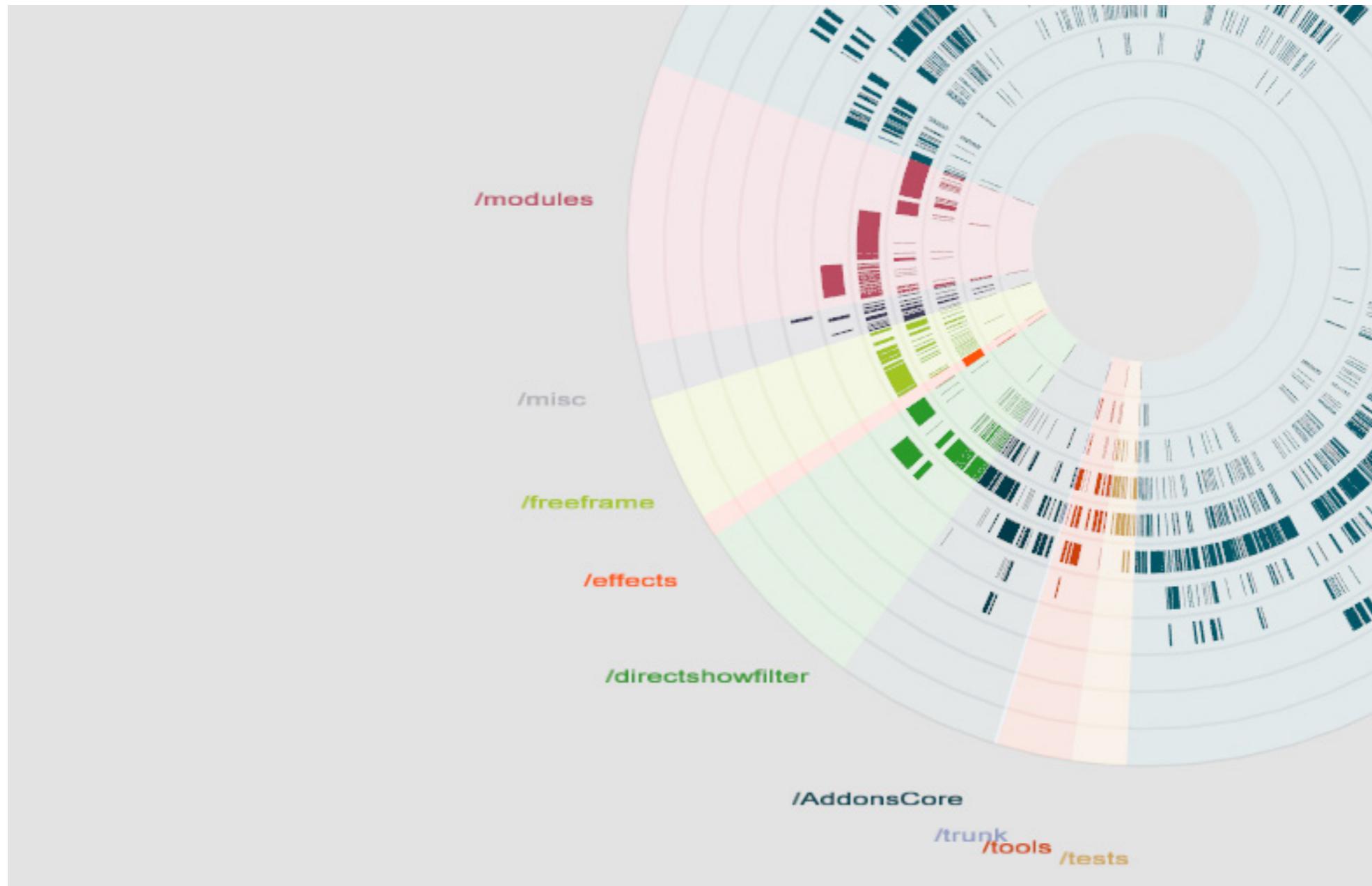
VISUALIZING A XML

BUILDING AND USING SQL

GRAPHING AN API

Data Visualization

VISUALIZING A XML



Data Visualization

BUILDING AND USING SQL



Data Visualization

GRAPHING AN API

