Numbers to Pixels

All Communication

This report examines a year of Nicholas Felton's communication data. It aspires to uncover patterns and insights within the data and metadata of a large and personal data set. Sources include conversations, SMS, telephone calls, email, Facebook messages and physical mail.

TOTAL RECORDS

94,824

Average 260 records/day

RECORDS PER MEDIUM

SMS	44,041
Email	31,769
Conversation	12,464
Facebook Messages	4,511
Mail	1,719
Telephone	320

MOST DAILY RECORDS

1,355

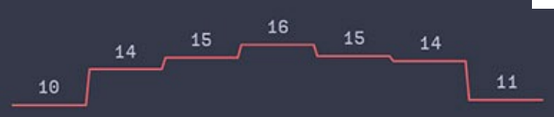
March 13

FEWEST DAILY RECORDS

53

December 15

TOTAL DAILY RECORDS ×1,00



WEEKDAY RECORDS

78%

WEEKEND RECORDS

22%

BUSIEST HOUR

12PM

Average 19.9 records

SLOWEST HOUR

4AM

Average 1.4 records

LONGEST GAP BETWEEN RECORDS

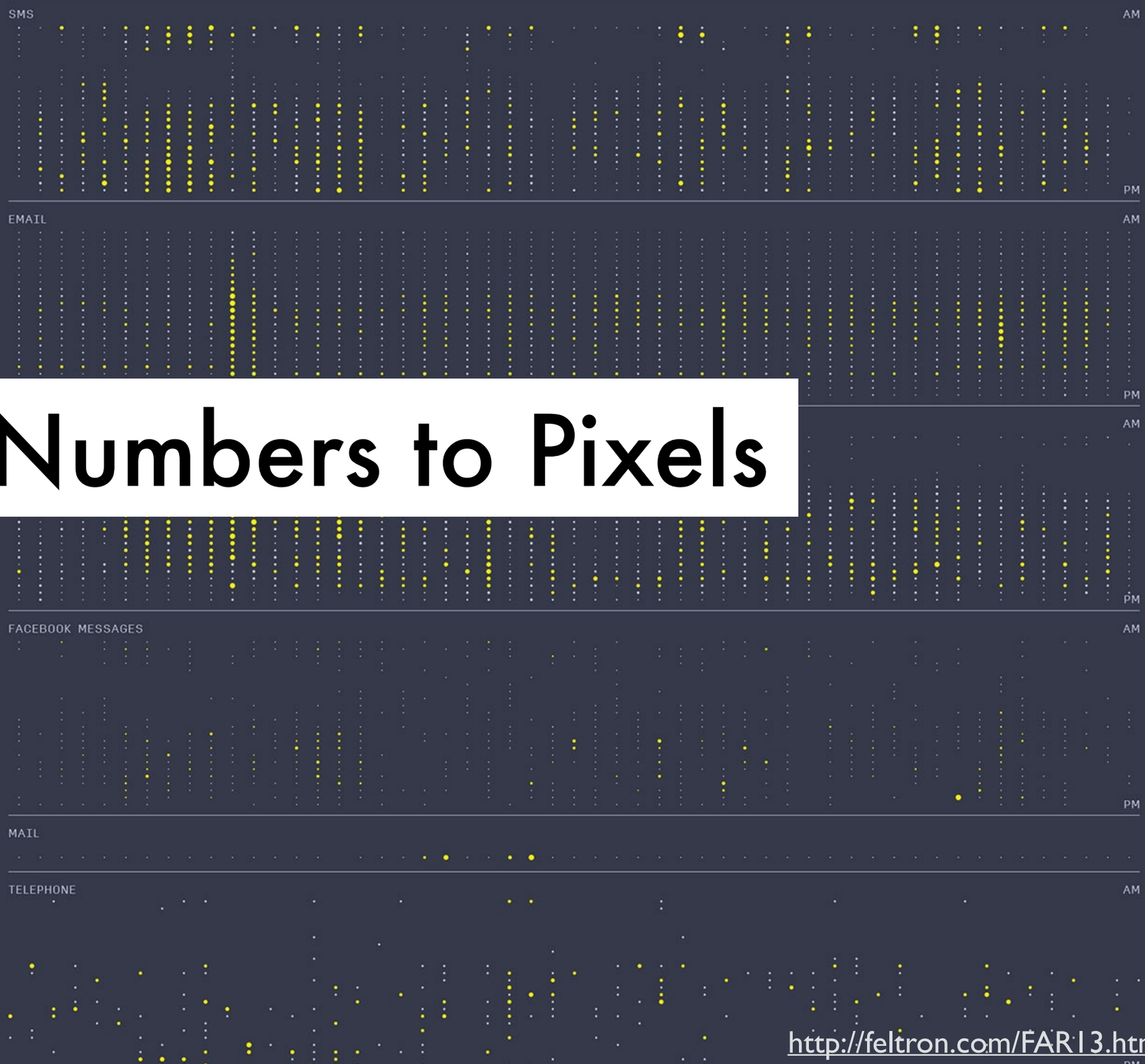
6 hours 9 minutes

Beginning September 21 at 10:00 PM

TOTAL MONTHLY RECORDS ×1,000

Volume

MOST ACTIVE TIMES (TOP 25%)



http://feltron.com/FAR13.html

Formerly

Formerly

Zipfian Academy

+

galvanize

Data Visualization and D3.js Edit

Communicating with Data

Intermediate

Approx. 7 weeks

Assumes 6hr/wk (work at your own pace)

Built by Zipfian Academy

Join 26,349 Students

Course Summary

Learn the fundamentals of data visualization and practice communicating with data. This course covers how to apply design principles, human perception, color theory, and effective storytelling to data visualization. If you present data to others, aspire to be an analyst or data scientist, or if you'd like to become more technical with visualization tools, then you can grow your skills with this course.

The course does not cover exploratory approaches to discover insights about data. Instead, the course focuses on how to visually encode and present data to an audience once an insight has been found.

This course is part of the Data Analyst Nanodegree.

Access Course Materials

Resume course materials

Free

You get

- Instructor videos
- Learn by doing exercises

https://www.udacity.com/course/data-visualization-and-d3js--ud507

Currently

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Master of Science in Analytics

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Takeaways

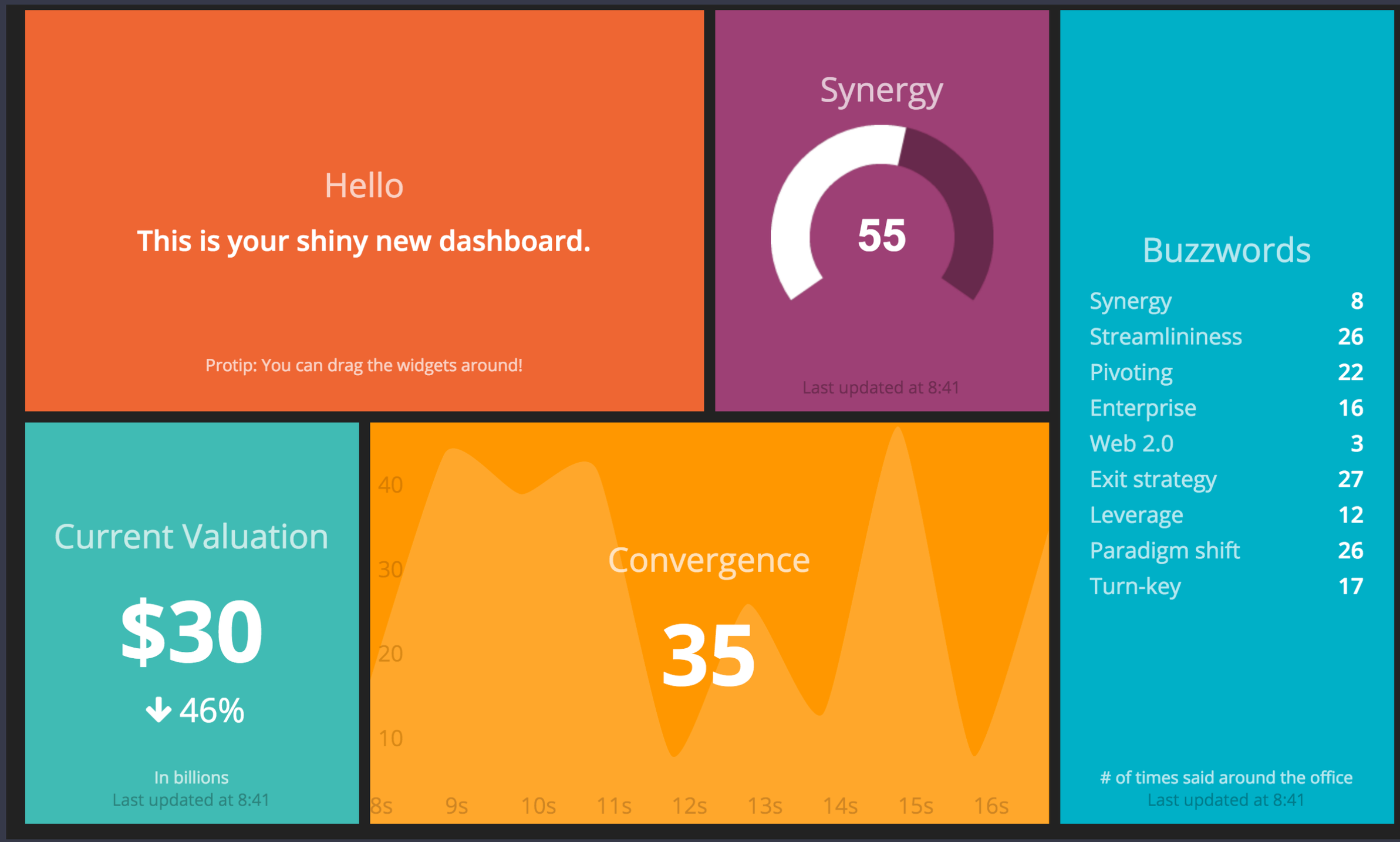
- Just like with words, there is a visual vocabulary
- Data Visualization is inherently process driven
- Explanatory vs. Exploratory
- Data Visualization is not D3.js

Data Visualization

"A tangible communication of the abstract"

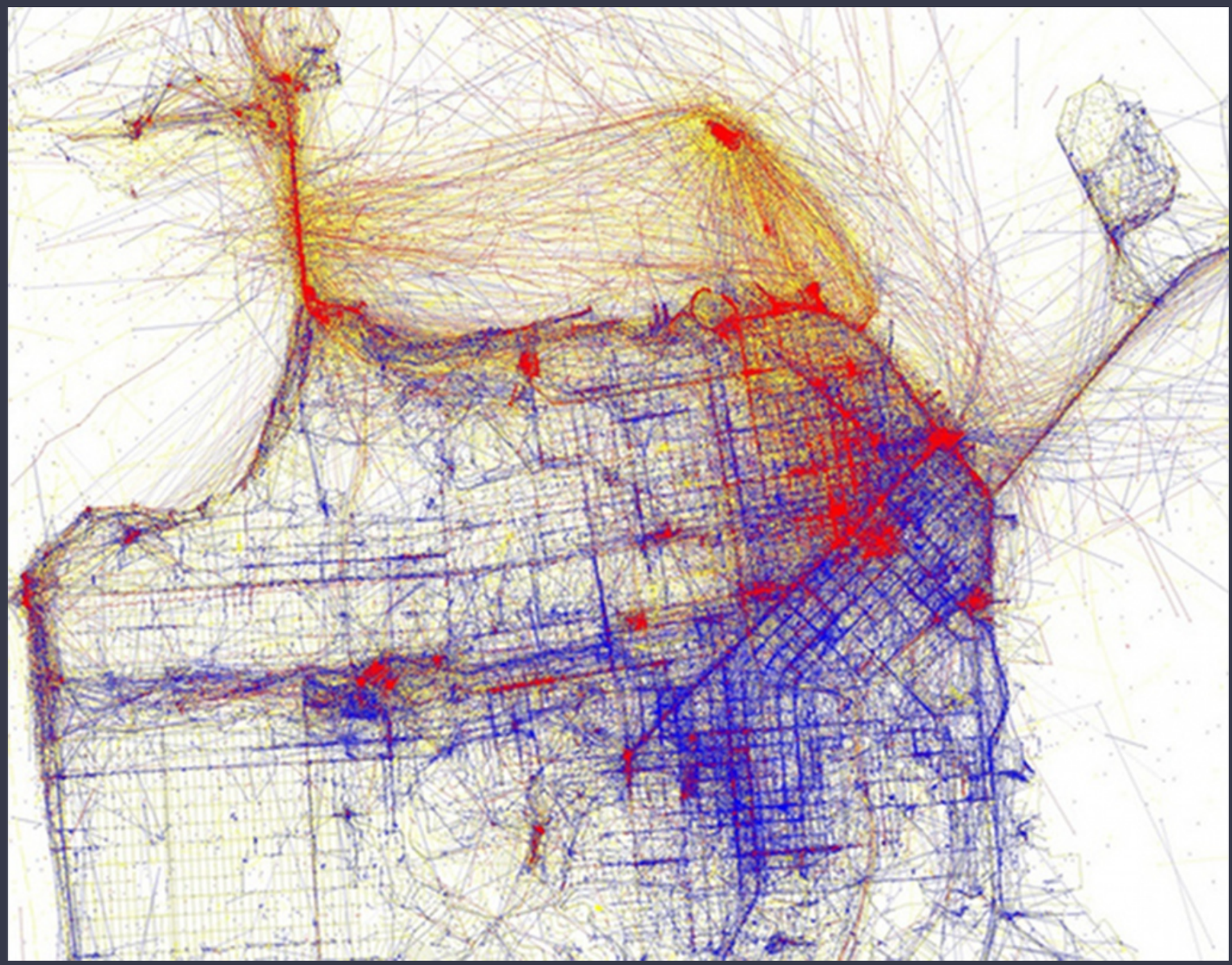
-- Jonathan Dinu

Dashboarding (BI)



http://dashingdemo.herokuapp.com/sample

Data Viz as Data Science



Tourists

Locals

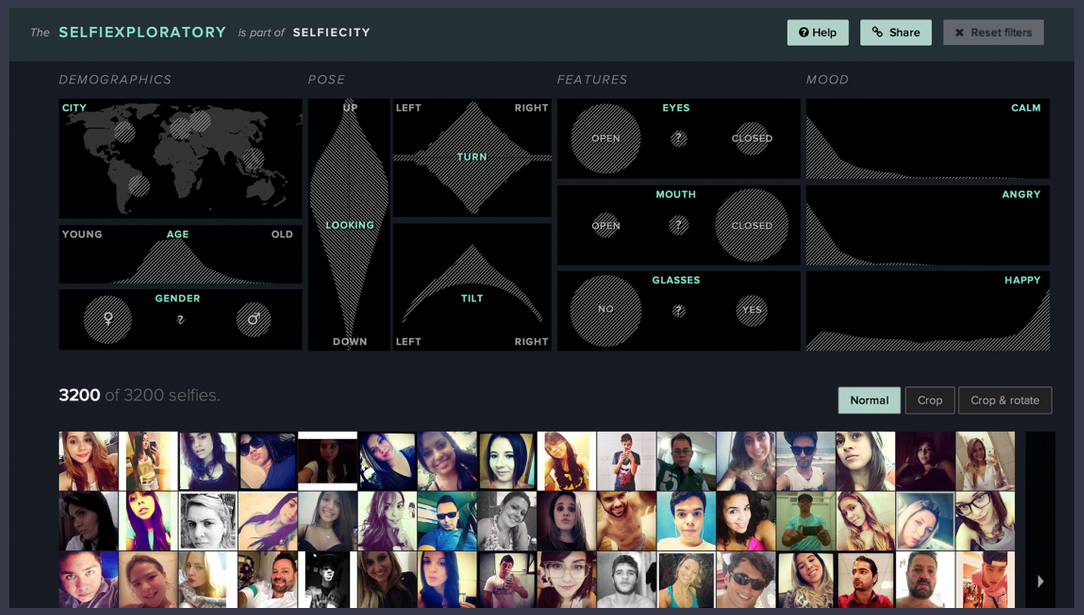
https://www.flickr.com/photos/walkingsf/sets/72157624209158632/

Eric Fischer, @enf

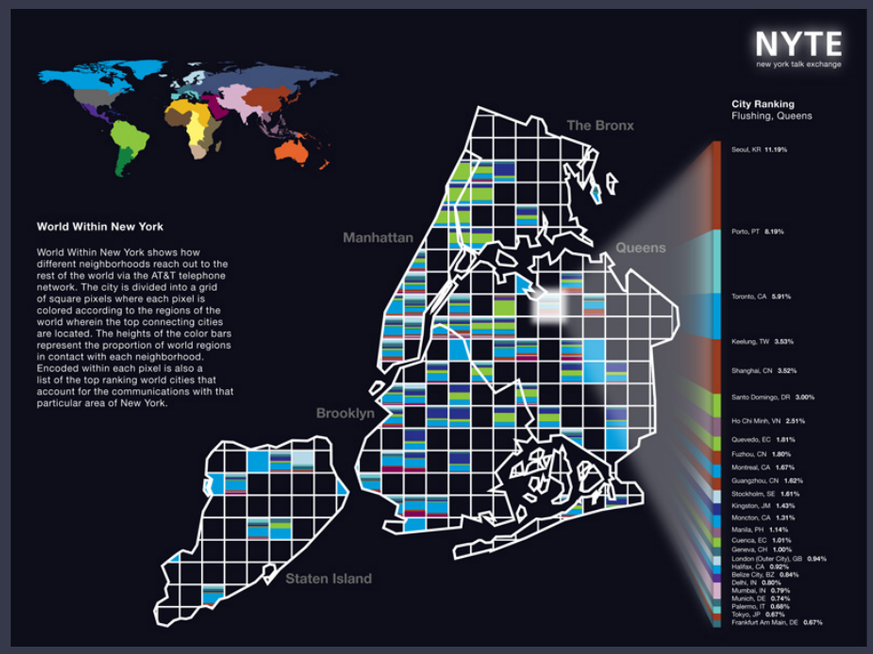
Data Art

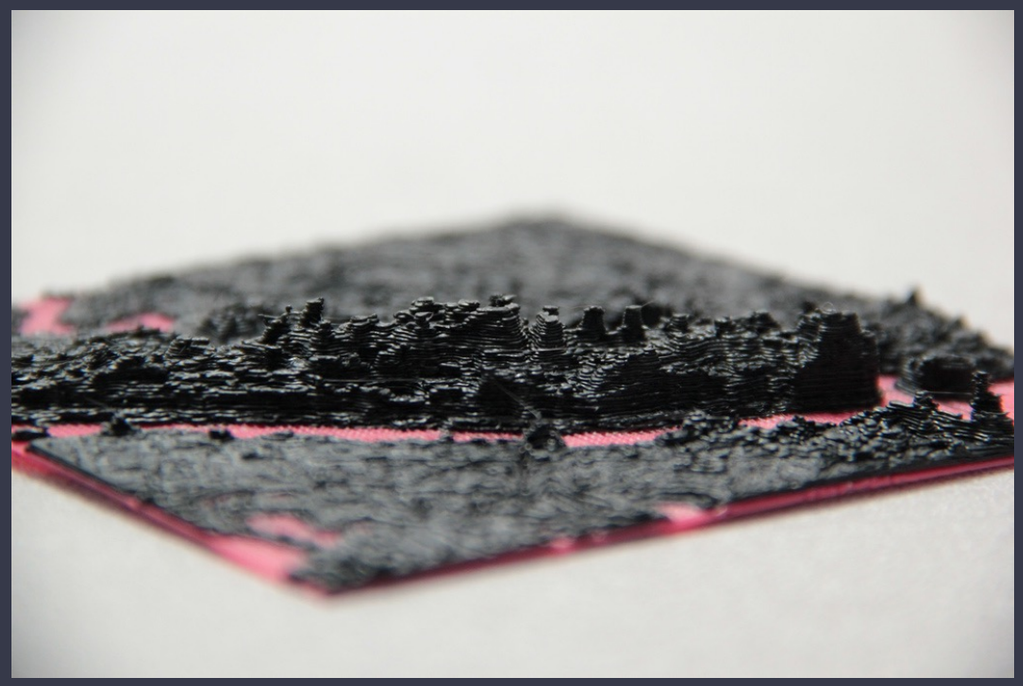
http://www.facebookstories.com/stories/2200/data-visualization-photo-sharing-explosions

Moritz Stefaner: Crowdsourced



Aaron Koblin: Analysis

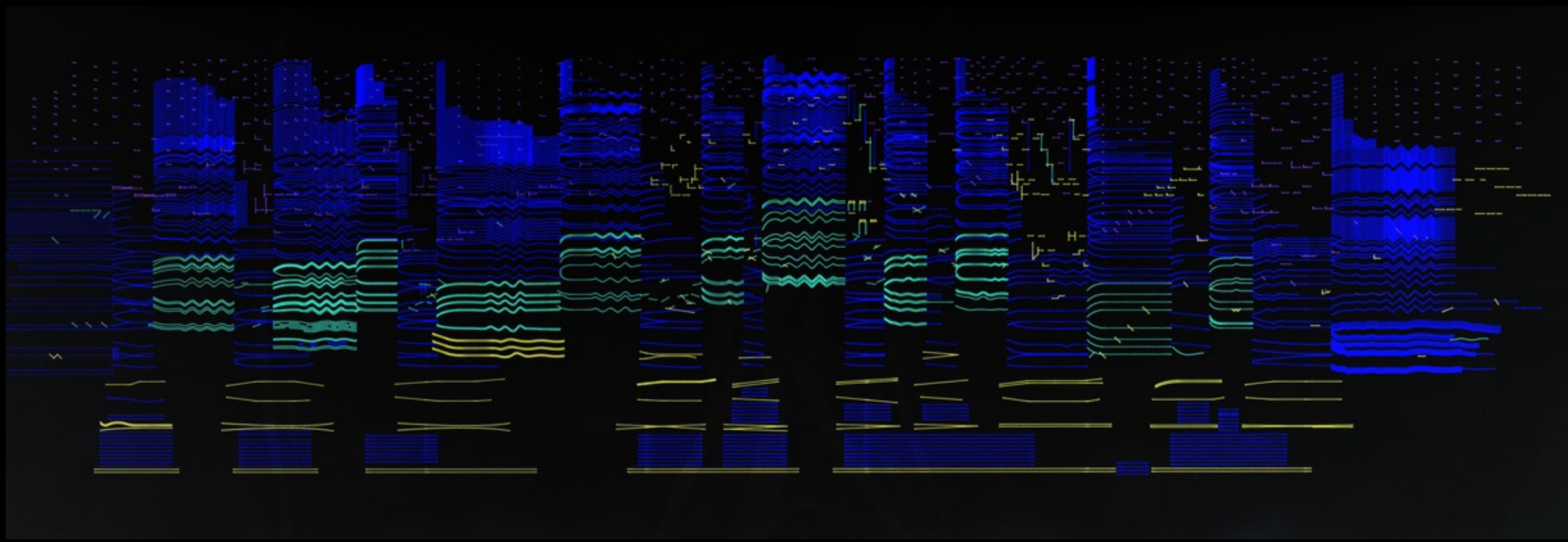




Kyle McDonald: Physical

Casey Reas: Generative

John Keston & Jasio Stefanski

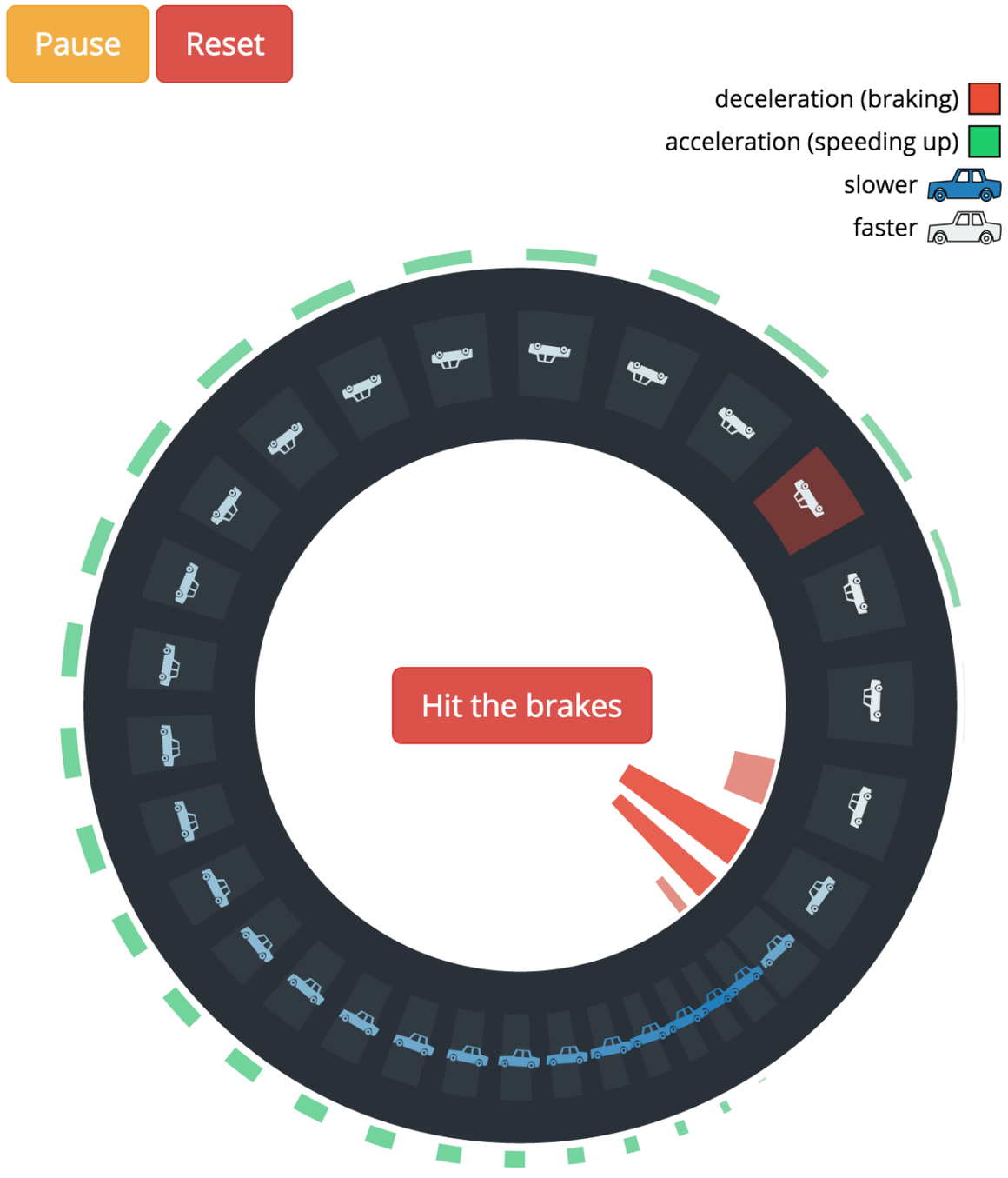


Original

Reprise

http://johnkeston.com/news/synthetic-skyline/

Explaining Complexity (through Simulation)



http://blogs.kqed.org/lowdown/2013/11/12/traffic-waves

Questions? tweet @clearspandex

Homework

- Find 1-3 datasets you would want to visualize
- Come up with 3 potential "thesis" questions
  - For each, come up with 2 exploratory questions
  - Sketch a visualization that explores each thesis question

https://gist.github.com/Jay-Oh-eN/0dbc15c90b680df50819