

photos  
+  
algorithms



# #1 Pager

- 
- what: visualizing millions of ig & flickr vancouver photos
  - [github.com/rtanglao](https://github.com/rtanglao)
  - repos: algosplusphotosequalsart, rtgram, ig-ggmap, ig-r-leaflet
  - stack: ruby, R, HTML5, MongoDB, imagemagick, shape collage
  - sermon: narrate your work & have mentors

#thanks  
OS X, BSD, Linux, C, POSIX, homebrew,  
emacs, find, xargs, xxd, Photoshop,  
IA Writer, ruby, bash, R, ggmap,  
ggplot2, leaflet, imagemagick,  
graphicsmagick, webshot, phantomJS,  
**R Studio**, [zazzle.com](#), Art of Wear, git,  
flickr, dropbox, github, js, Firefox

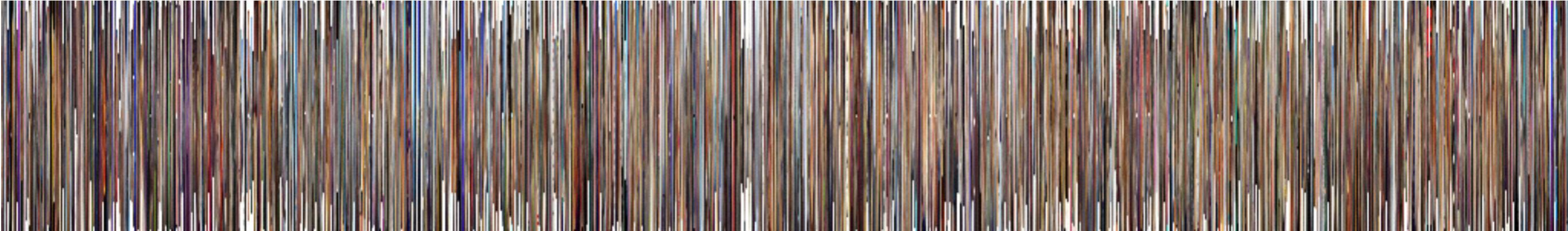
# #narrateYourWork

- 
- document what you tried TODAY
  - document what you'll do TOMORROW
  - because you will forget!
  - do it EVERY DAY!

# #getMentors

- Everybody needs help and inspiration
- Mine is @kearwoodgilbert
- Can I help you or can you help others?

# #stack

- 
- ruby: call the instagram API & write to MongoDB
  - ruby: read MongoDB & create JSON & CSV
  - R: read CSV and visualize w/ggmap and ggplot2
  - JS: read JSON and visualize w/leaflet
  - visualizations: top colour maps, “barcodes”, 4 minute bins top colors

# #everythingBreaks



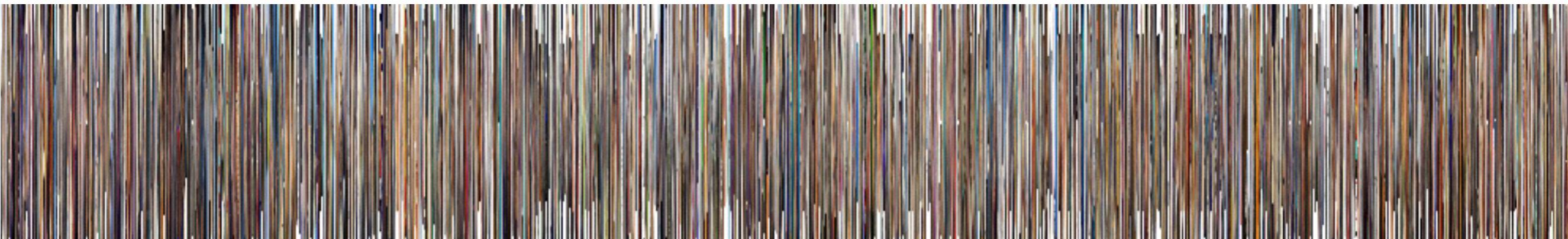
- ruby 1.x to 2.x breaks MongoDB driver
- OS X can't handle millions of files: find & args
- tools break: JPG breaks w>65535px
- APIs break: ig doesn't support 1 year;  
just 7 days & will break my code in June 2016

# #dataMustBeCleaned



- 100,000 photos' metadata missing lat & long
- 400,000 photos out of 1.4 million couldn't be downloaded! (deleted or made private?)

# #next



- ggvis? shiny? ganimate? VR?
- sound: sonicPI, tidal
- everything on the web!
- continuous visualization
- “real” wearables
- visualize Mozilla volunteer support data