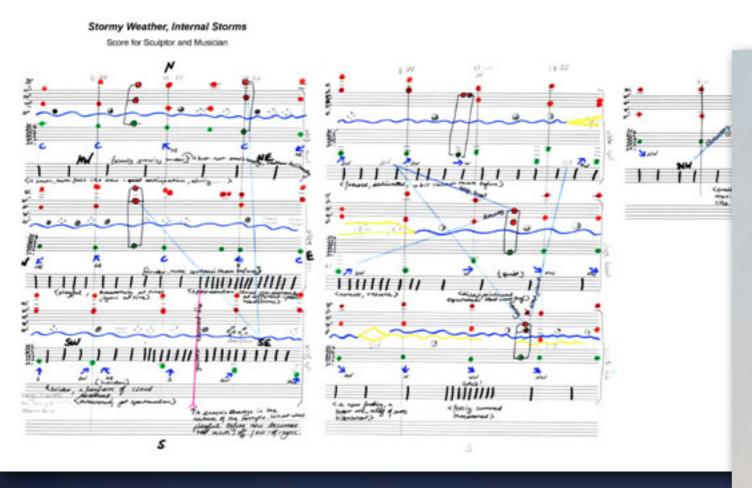
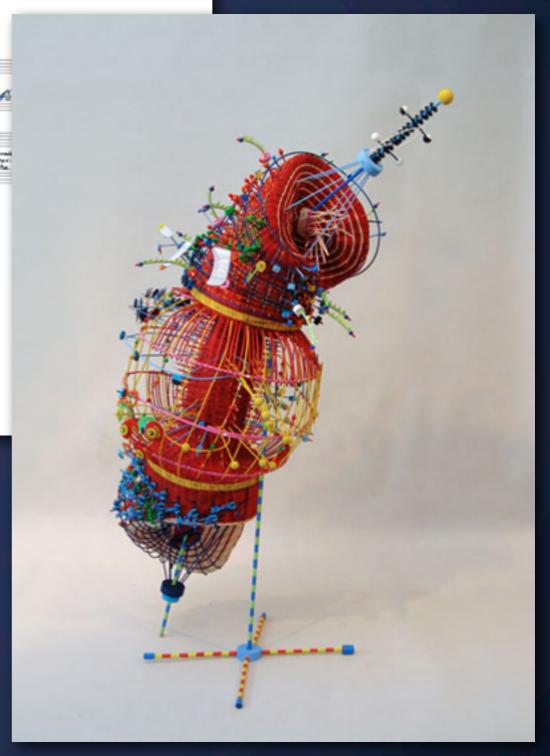
# Potpourri Of Edges, Emotions, and Serendipity.

# Edges of Data Visualization

## Music Score Sculptures

Natalie Miebach (2009)





## Analysis – Communication

What's the objective?

Discover

Make sense

mulate Educate

Convince Entertain

Analysis

Communication

Exploratory

Explanatory

## Analysis – Communication

What's the objective?

## Touch?

Make sense simulate

Educate

**Analysis** 

Communication



Explanatory

## Analysis – Communication

What's the objective?

Touch?

Inspire?

Make sense simulate

Educote

**Analysis** 

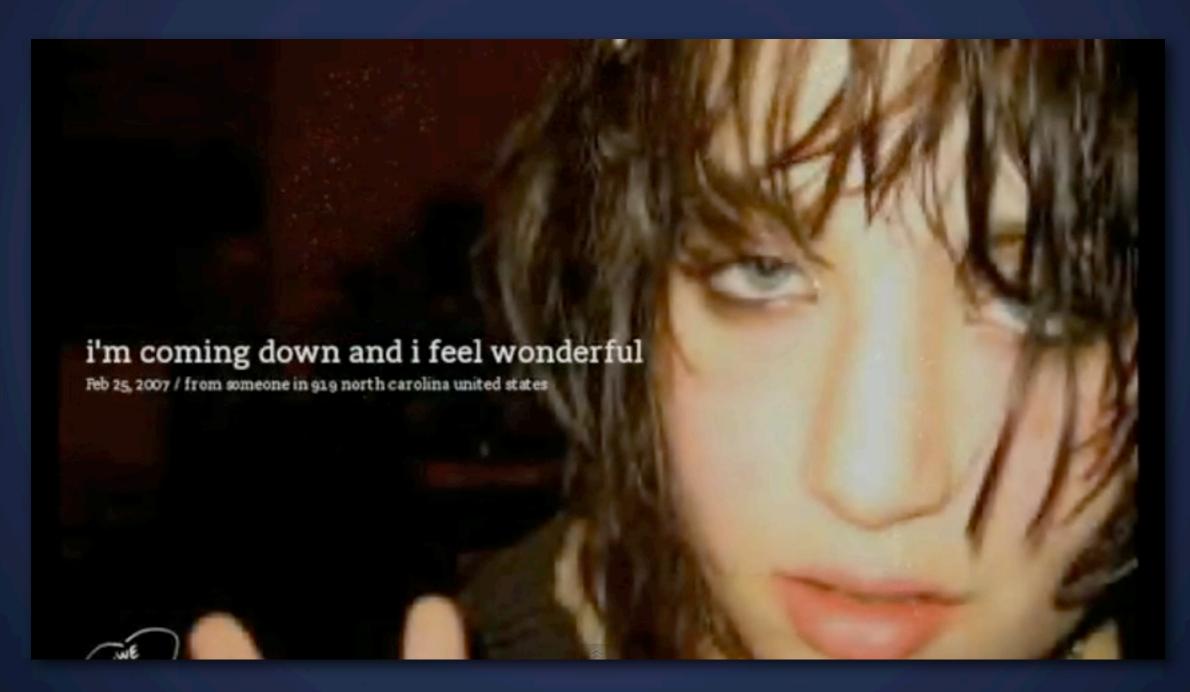
Communication

Exploratory

Explanatory

# Emotional

**Emotions in Data Visualization** 



https://www.youtube.com/watch?feature=player\_embedded&v=95Qm4lJUGjA#!

6 Movements

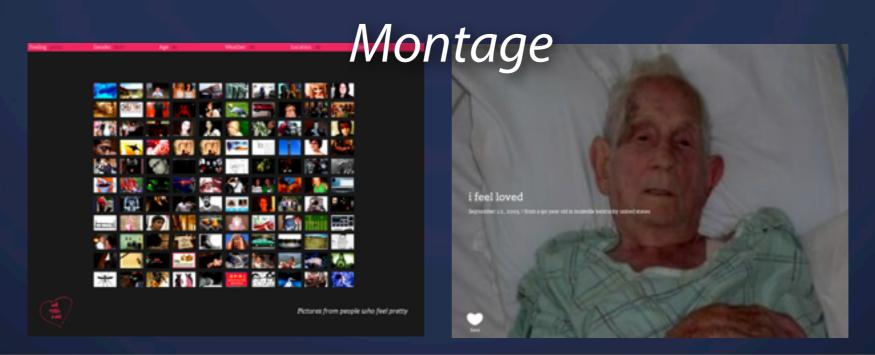


i feel very lonely and unoticed and that I am poised in a point of my life when I am able to do great things but just can't quite get them started.

I feel lonely recently.

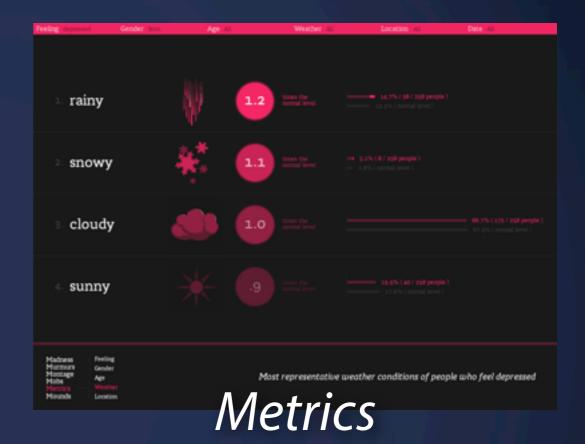
I feel lonely recently.

I feel lonely recently but a great all good but I miss the way things used to be leften an able to do great things are all good but I miss the way things used to be leften an able to recent and the second of t



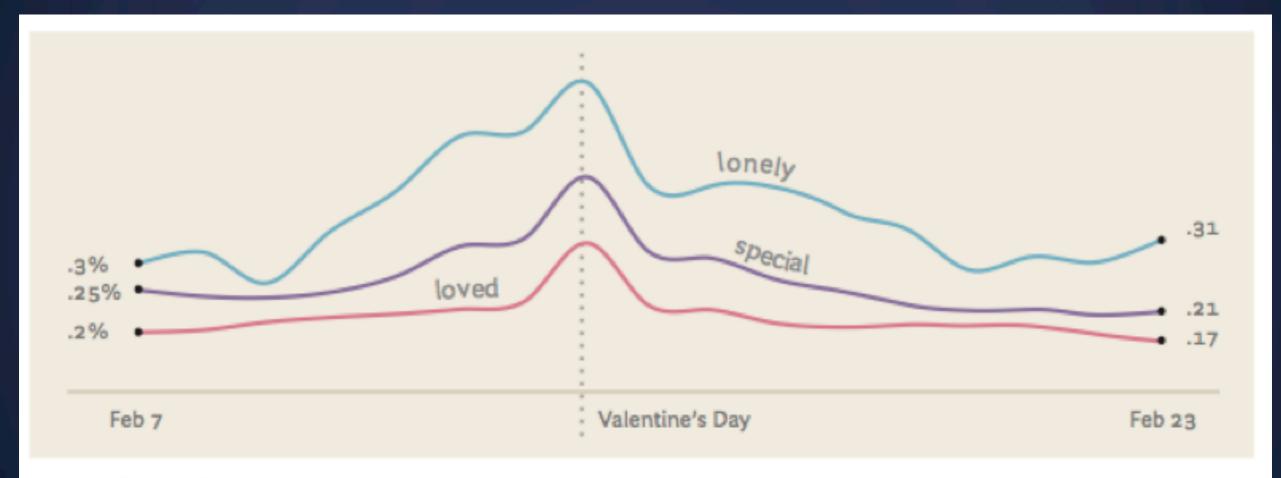
6 Movements







Findings

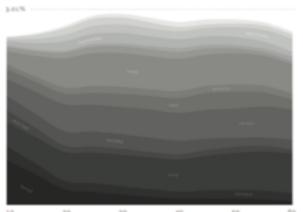


#### Valentine's Day / 2006–2008 average

Loneliness sees the biggest rise, starting a few days before Valentine's Day and remaining high for a few days afterwards. Feeling special and loved is also typical of the holiday.

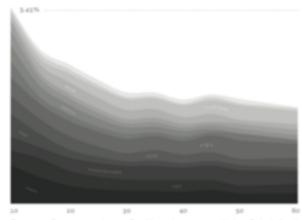
#### Findings

#### ANTICIPATION



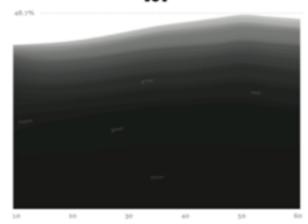
Anticipation contains: bored, nervous, sure, worried, excited, certain, calm, anxious, ready inspired boneful motivated polimietic prepared threatened

#### ANGER



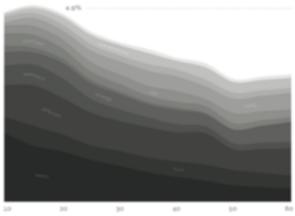
Anger contains: mean, used, uncomfortable, mad, upset, angry, jealous, fucked, pissed,

#### JOY



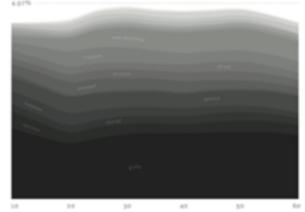
Joy contains: better, good, happy, well, special, loved, great, safe, proud, nice, fine, best, wanted, complete, warm, super, alive, high, confident, happier, perfect, excited, relieved, content, beautiful, secure, lucky, blessed, awesome, wonderful, relaxed, liked, inspired, energetic, amazing, loving, glad, glddy, hopeful, accepted, satisfied, refreshed, honored, fortunate, fantastic, optimistic, grateriul, fulfilled, incredibte, peaceful

#### SURPRISE



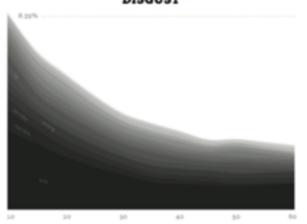
Surprise contains: weind, hunt, different, swkward, strange, fucked, confused, odd, lucky, disposointed, overwhelmed, screwed, embarrassed

#### FEAR



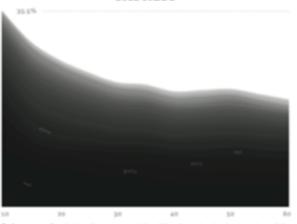
Fear contains: guilty, nervous, helpless, scared, behind, worried, stressed, anxious, afraid, trapped, overshelmed, tense, desperate, unprepared, queaey, uneasy, threatened, unsure

#### DISGUST



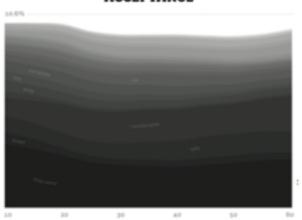
Disguet contains: sick, horrible, terrible, wrong, bored, awful, fat, miserable, selfish, ugby, sahamed, pathetic, icky, worthless, gross, evil, disgusting, nauseous, yucky, nausested, disgusted

#### SADNESS



Sadness contains: bad, guilty, sorry, sad, horrible, sione, lonely, depressed, terrible, lost, worse, wrong, empty, sedul, hurt, dead, crappy, used, uncomfortable, useless, miserable, helpiess, broken, shitty, lealous, confused, ashamed, weak, unloved, numb, ignored, drained, worst, hopeless, worthless, stuck, low, disappointed, violated, rejected, crushed, melancholy, incomplete, frustrated, unhappy, lousy, homesick, embarrassed, deprived, blue, hollow, abandoned, lacking, isolated, inadequate, defeated

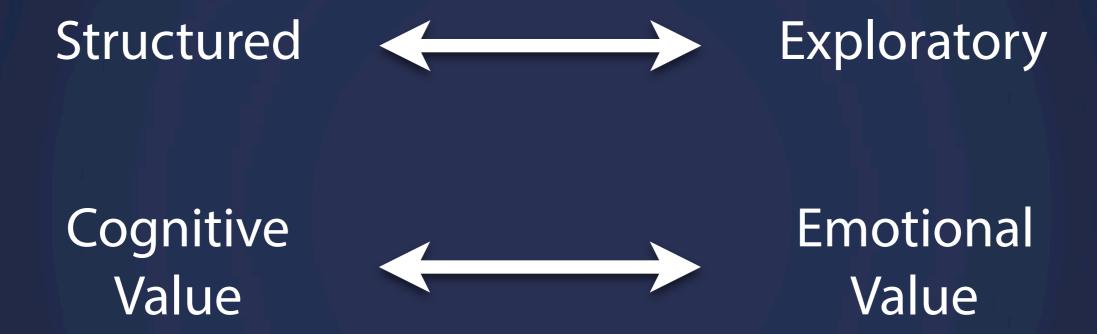
#### **ACCEPTANCE**



Acceptance contains: (the) same, loved, safe, comfortable, dead, okay, lazy, complete, ok, relieved, numb, drained, hopeless, alright, content, secure, normal, best, relaxed, loving, satisfied, fulfilled, pesceful, defeated

Figure 9: The Emotions of Aging

Dichotomies

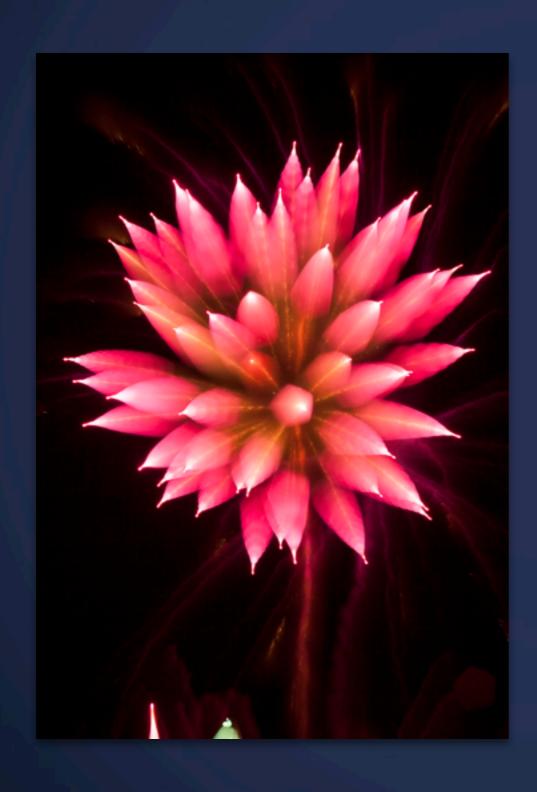


"[Visitors felt] greater emotional self-awareness, an increased sense of connection to others, and a greater sense of calm."

# Generative

## Fireworks

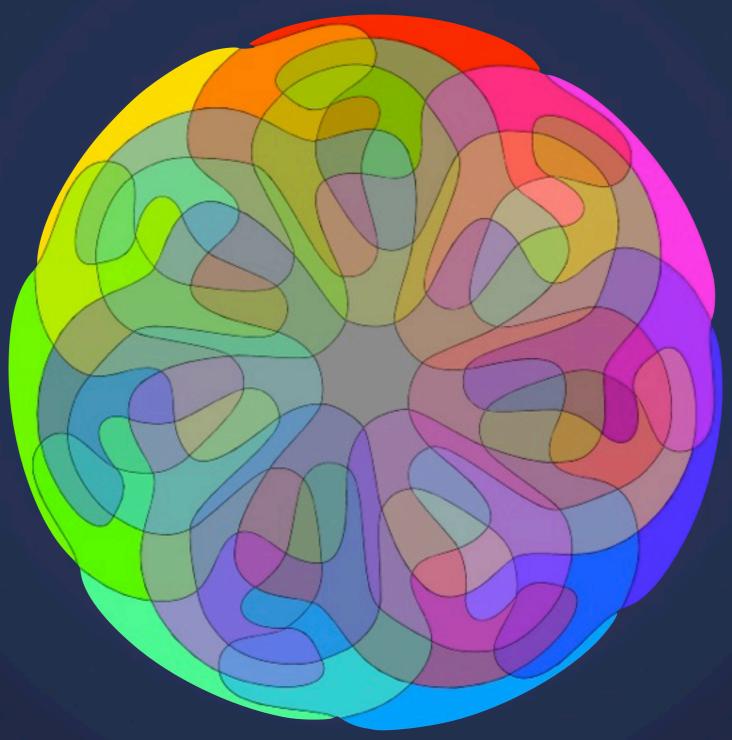
Long exposure





### Seven Sets Venn

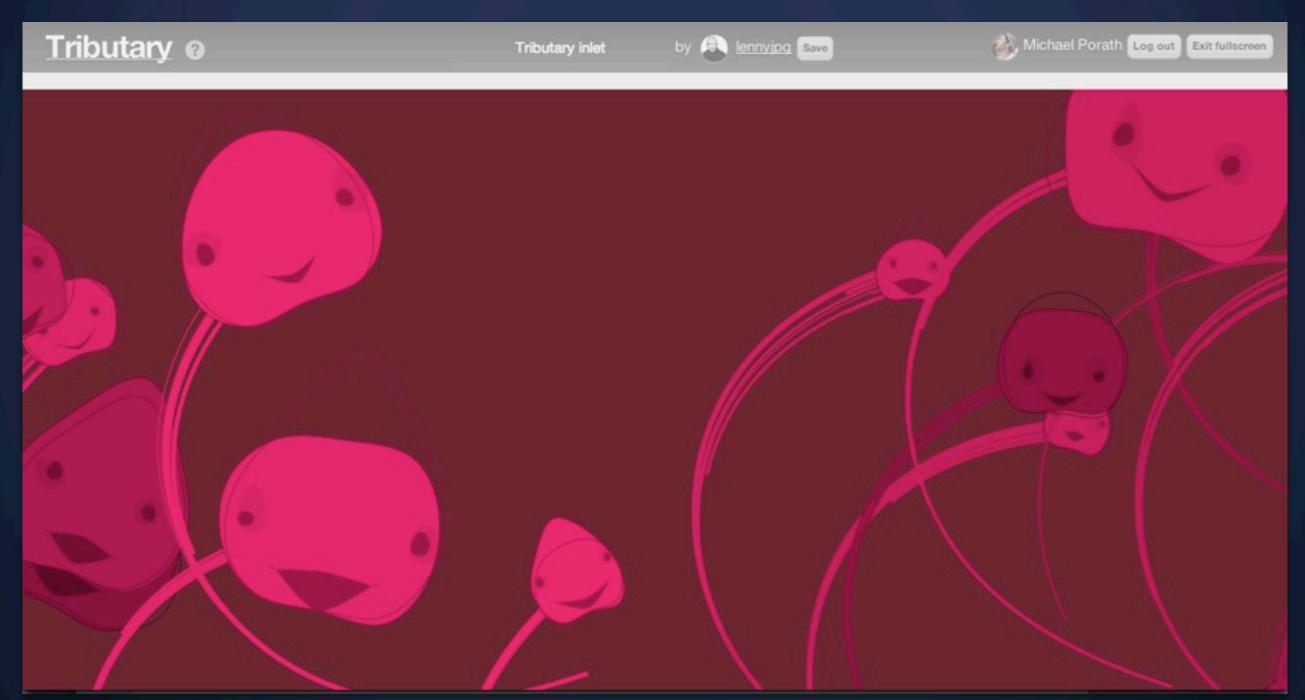
by @moebio



http://moebio.com/research/sevensets/

### Generative Art

Chernoff... Octopusses?



## Process Compendium

Casey Reas

```
F1: Circle
F2: Line
B1: Move in a straight line
B2: Constrain to surface
B3: Change direction while touching another Element
B4: Move away from an overlapping Element
B5: Enter from the opposite edge after moving off the surface
B6: Orient toward the direction of an Element that is touching
B7: Deviate from the current direction
E1: F1 + B1 + B2 + B3 + B4
E2: F1 + B1 + B5
E3: F2 + B1 + B3 + B5
E4: F1 + B1 + B2 + B3
E5: F2 + B1 + B5 + B6 + B7
```

## Process Compendium

Casey Reas



# Serendipitous

# Byproducts

... can be beautiful



# Byproducts

... can be beautiful



# Byproducts

... can be beautiful



# Recap The last one.

# Final Project

A few things...

#### Deliverables

To hand in today

Title and 2 sentences (to gpanger@ischool)

http://blogs.ischool.berkeley.edu/i247s13/assignments/final-project/

#### Deliverables

To hand in by 5/5/13, 11.59pm

hosted version of your final visualization artifact your source code

1,500-2,000 word report about visualization and process

entry to the blog

http://blogs.ischool.berkeley.edu/i247s13/assignments/final-project/

## Presentation Schedule

Tuesday, 5/7	Thursday, 5/9
Alec, Andrew, Kelly and Taek	Kristin, Divya K, Kiran and Kate
Karthik and Taeil	Sandra, Morgan and Sonny
Vimal, Gaurav and Jen	David, Christina and Jacob
Seema, Priya and Julia	Fred, Raymon and Charles
Sara, Chris, Suhani and Aksel	Divya A, Evie, Shreyas and Sonali

# Project Presentation

12-15 minutes / team, including Q&A

You'll present the project, process, and give a demo.

Presentations have to be PDF, Powerpoint, Keynote, or accessible online.

Send to gpanger@ischool the morning of the presentation (by 12pm). Include special fonts.

# Evaluations

It's YOUR turn

# Thanks

A few things...