

# Visualization & Visual Analytics 1

Angus Forbes

[creativecommons.evl.uic.edu/courses/cs424](https://creativecommons.evl.uic.edu/courses/cs424)

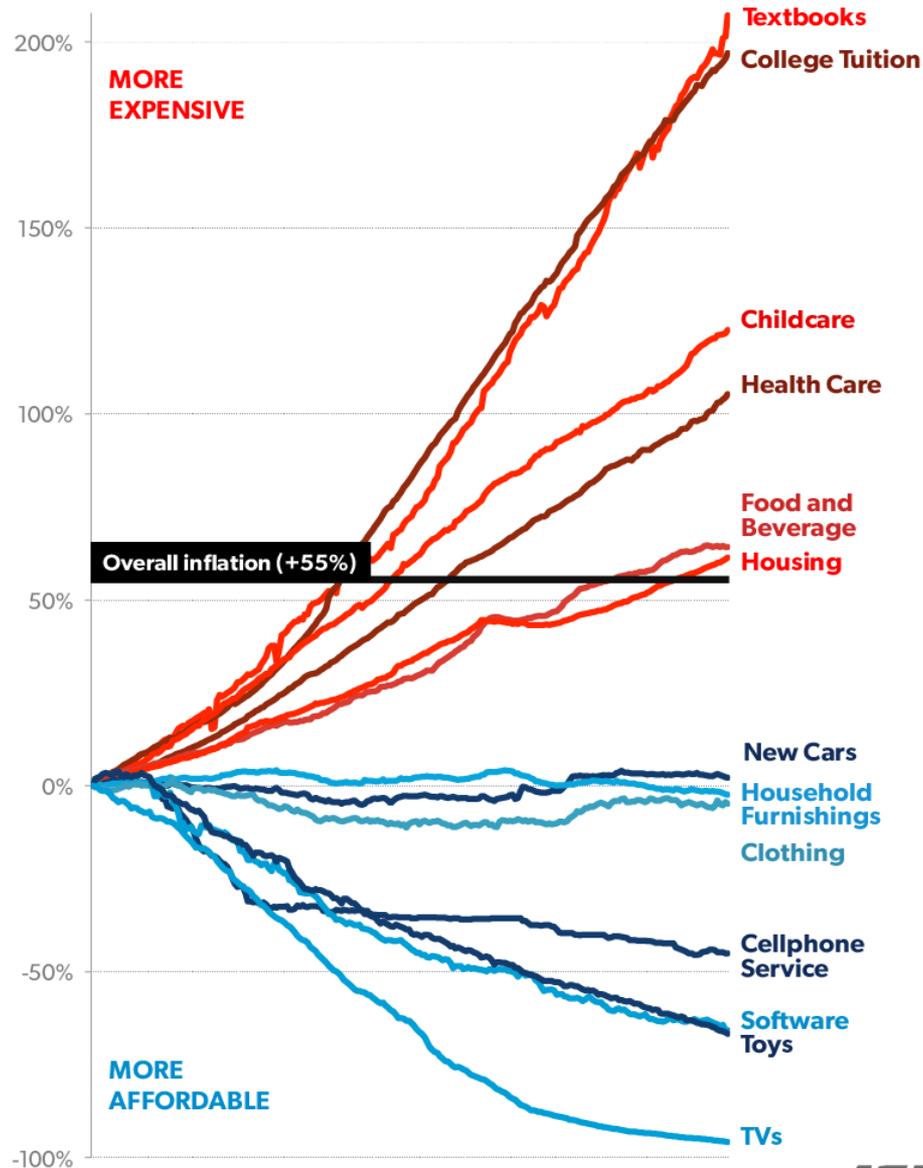
# Share visualizations

Groups of 3 or 4 - Introduce yourselves to each other – Spend a few minutes each describing the visualization you've chosen.

- Where did you find it?
- Who is its intended audience?
- What kind of data does it visualize?
- What do you like about it?

# Price changes (1996-2016)

Selected Consumer Goods and Services



Source: BLS

# HOW CONCERNED ARE YOU ABOUT THE ZIKA VIRUS?



# Project 1

For this assignment, creativity more important than accuracy...

Grading like a diving or gymnastics competition – difficulty and originality of dive or routine is taken into consideration...

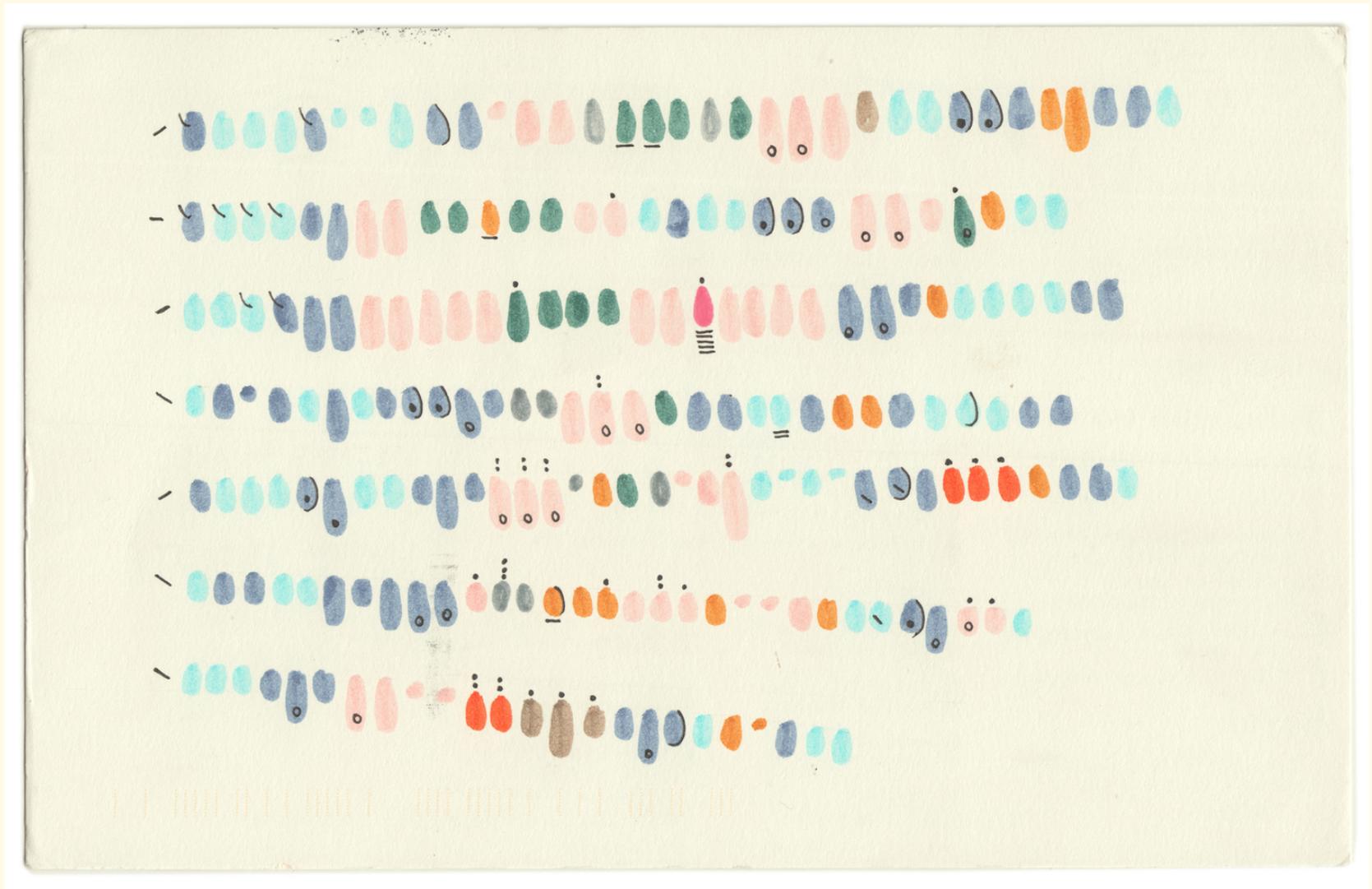
# Project 1

Ideas for how to think of an interesting data set to collect:

- Find something meaningful that: piques your curiosity, that constantly annoys you, that amuses you, that you tend to notice
- What is a special skill or set of experiences unique to you? What thoughts or perspectives do you have that are not shared by everyone?



# Giorgia Lupi, 2015 "Dear Data"



# G. Lupi, 2015 "Dear Data"

66 DEAR DATA  
WEEK 04: MIRROR MIRROR ON THE WALL

FROM:  
NEW YORK NY 100  
07 OCT 2015  
BROOKLYN  
-NY- USA



HOW TO READ it:



Each "drop" represents a single "look" at myself reflected.

- Each horizontal line is a day of the week. "Looks" are ordered chronologically.  
- The inclination of the line represents whether that day is above or below the average in n. of "looks"

- COLOR = where I saw myself
- mirror of my Bedroom
  - mirror of my Bathroom
  - window / shop-window
  - mirror of hairdresser while having a hair-cut
  - mirror of café / restaurant's Bathroom
  - mirror of the Bathroom at work.
  - screen of iPhone or Mac
  - others
  - camera of my iPhone while doing a selfie.

- LENGTH indicates the intention:
- tried to AVOID not to report
  - seen myself while not thinking of it
  - purposely checking how I looked like

- ATTRIBUTES:

- thought I should cut my hair
- thought I should change dress
- thought I was cool!
- didn't see myself
- seen myself with others
- spent some time looking
- did something (like change dress or adjust my hair)

SEND TO:  
STEFANIE POSAVEC  
LONDON  
[UK]  
ENGLAND

001223

# S. Posavec, 2015 "Dear Data"



# S. Posavec, 2015 "Dear Data"

**DEAR DATA - WEEK 42**

**A WEEK OF LAUGHTER**

FOR A CARD ABOUT LAUGHTER I AM SAD ABOUT HOW THIS CARD TURNED OUT

ABOUT THE DATA: I TRIED TO CAPTURE MY LAUGHS WHICH WAS REALLY HARD + GOT IN THE WAY OF ENJOYING LIFE, HENCE THE DATA VOIDS ☺

FROM: S POSAVEC  
London  
UK/dogawareness

Mail Centre  
03-07-2015  
14014000

£1.00

TO: GIORGIA LUPI  
BROOKLYN, NY 11249  
USA

**HOW TO READ IT:**  
IN CHRONO ORDER  
START → END  
EACH REPRESENTS A LAUGH OR MOMENT OF LAUGHTER.  
WHO I WAS WITH  
ALL LAUGHS ARE DRAWN IN CHRONOLOGICAL ORDER FROM L-R AS IF YOU'D READ A BOOK.  
MARKERS INDICATE END OF ONE DAY + BEGINNING OF OTHER. IF MARKER IS IN 'PEN', IT MEANS I HAD A DATA VOID DUE TO THE FOLLOWING:  
DRINKING W FRIENDS, MY BDAY!!, MY B-DAY DINNER ☺

**SIZE OF LAUGH:**

TO MYSELF: REGULAR, LARGE + HEARTFELT!

A DOT MEANS YOU KNOW LAUGHING WITH PEOPLE (GENERALLY IN FUN!!)

LAUGHING AT PEOPLE THEM!

LAUGHING WITH PEOPLE (GENERALLY IN FUN!!)

**I WAS LAUGHING WITH:**

- MYSELF
- MY HUSBAND
- FRIEND
- STUDIO MATES
- GROUP OF FRIENDS
- PROFESSOR
- CONTACT

**I WAS LAUGHING ABOUT:**

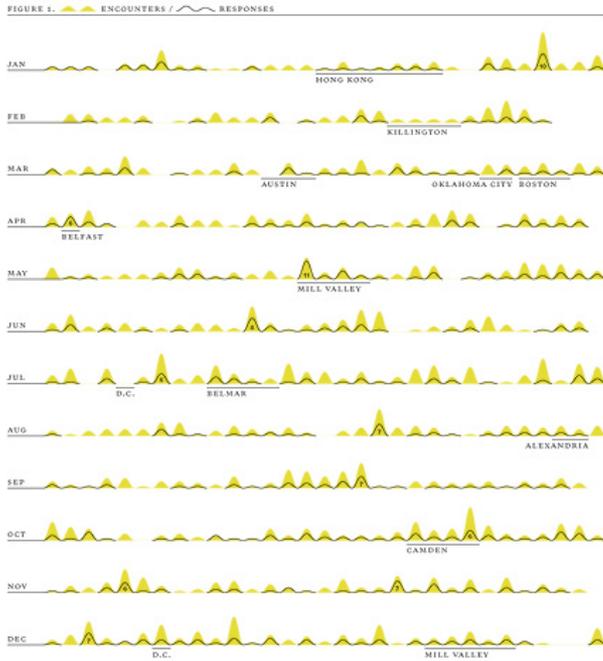
- BEING IN A GOOD MOOD, GENERAL TV SHOW
- FRIENDS QUIZ SUCCESS! (WE GOT 2ND)
- STRANGERS BEHAVIOUR
- MYSELF (TRYING TO MESS W/ MY DATA!)
- BEING TICKLED!
- DEAR DATA
- HUSBAND
- ANIMAL
- PARENT
- SCHADENFREUDE
- PHONE AUTO-CORRECT
- YOU!!

**AIRMAIL!**

# N. Felton, 2009

## Distribution

Date and location of encounters.



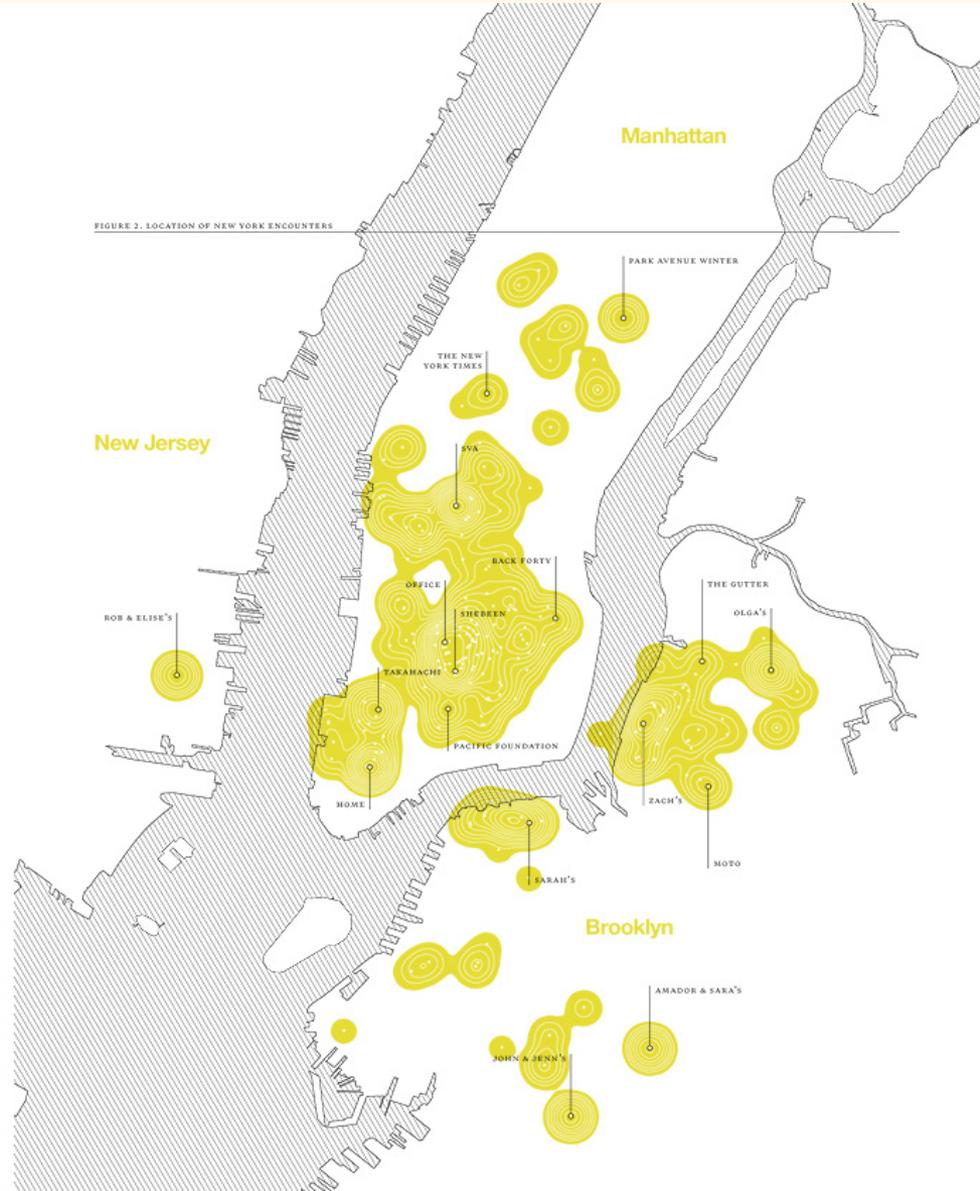
TOTAL ENCOUNTERS	AVERAGE ENCOUNTERS PER DAY	SURVEYS COMPLETED	CUMULATIVE RESPONSE RATE
<b>1,761</b>	<b>4.8</b>	<b>560</b>	<b>32%</b>
COUNTRIES INCLUDED	STATES INCLUDED	DAYS WITH REPORTS	CONTRIBUTORS
<b>Three</b>	<b>Nine</b>	<b>254</b>	<b>210</b>
<small>U.S.A., HONG KONG AND NORTHERN IRELAND</small>	<small>CALIFORNIA, MAINE, MASSACHUSETTS, NEW JERSEY, NEW YORK, OKLAHOMA, TEXAS, VERMONT, VIRGINIA, PLUS WASHINGTON D.C.</small>	<small>70% OF THE YEAR</small>	<small>AVERAGE 2.66 REPORTS PER PERSON</small>

### METHODOLOGY

Throughout 2009, friends, family, co-workers and acquaintances of Nicholas Felton were asked to report on his activities whenever they met.

All data on the following pages was compiled from the responses of these participants to a variety of questions concerning their encounter.

FIGURE 2. LOCATION OF NEW YORK ENCOUNTERS



# N. Felton, 2010

AN ACCOUNTING OF THE YEAR IN

## Subways

A SURVEY OF 109 UNIQUE ROUTES

SUBWAY TRIPS:

561

FOREIGN SUBWAY TRIPS:

22

JAPAN & BEIJING

AN ACCOUNTING OF THE YEAR IN

## Taxis

A SURVEY OF 74 UNIQUE ROUTES

NYC TAXI TRIPS:

138

FOREIGN TAXI TRIPS:

13

JAPAN, CHINA & NEPAL

AVERAGE FARE:

\$1.53

52 STANDARD FARE

MILES TRAVELLED:

1,075

NEARLY THE DISTANCE FROM NYC TO MIAMI, FL

AVERAGE FARE:

\$9.35

MOST EXPENSIVE FARE:

\$50

JFK TO HOME

TAXI ROUTES

AN ACCOUNTING OF THE YEAR IN

## Walking

AROUND THE BOROUGHS OF MANHATTAN & BROOKLYN

RELATIVE NUMBER OF MANHATTAN BLOCKS WALKED:



RELATIVE NUMBER OF BROOKLYN BLOCKS WALKED:



STREETS WALKED

AN ACCOUNTING OF THE YEAR IN

## Buses

NYC BUS TRIPS:

5

MIS ROUTE

MILES TRAVELLED:

7.4

BROOKLYN

MANHATTAN

BROOKLYN

MANHATTAN

# Homework for Tuesday

- Complete quiz (if you didn't finish in class)
- Read Munzner, chapters 1 & 2
- Set up D3.js environment and pick one example of your choice from [bl.ocks.org](http://bl.ocks.org) to explain in class 8/30
- Begin data collection for Project 1