cross-cultural data visualisation

project 3: city & transport & people

with James Boekbinder & Marieke de Beurs

2021 - 2022

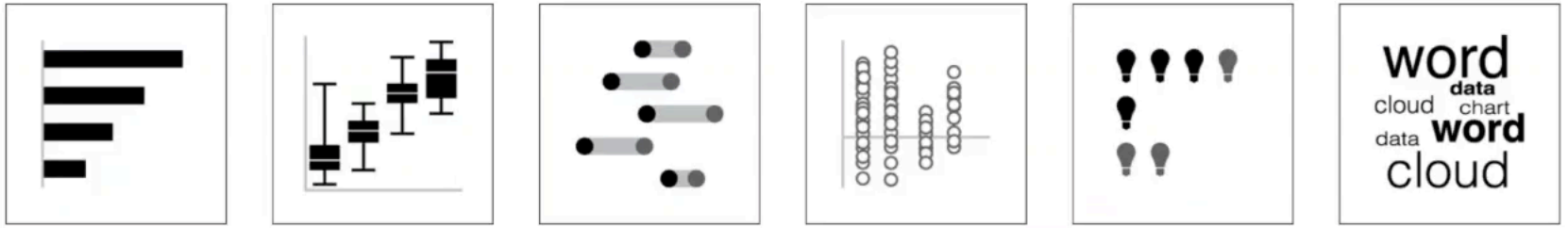
project 3

Week 3
Same data differently visualized

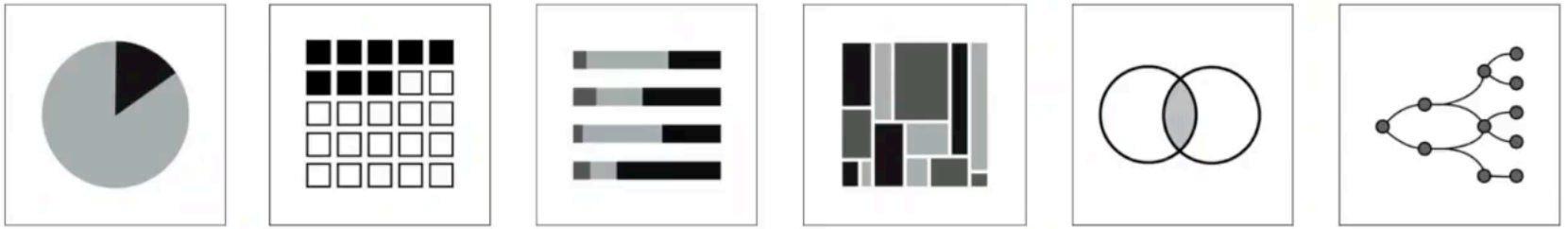
This week, you will visualize at least three of the categories of data represented in your spatial graphic in different types of graphics: hierarchical, relational, temporal, categorical.

Data representation: How to show what you want to say?

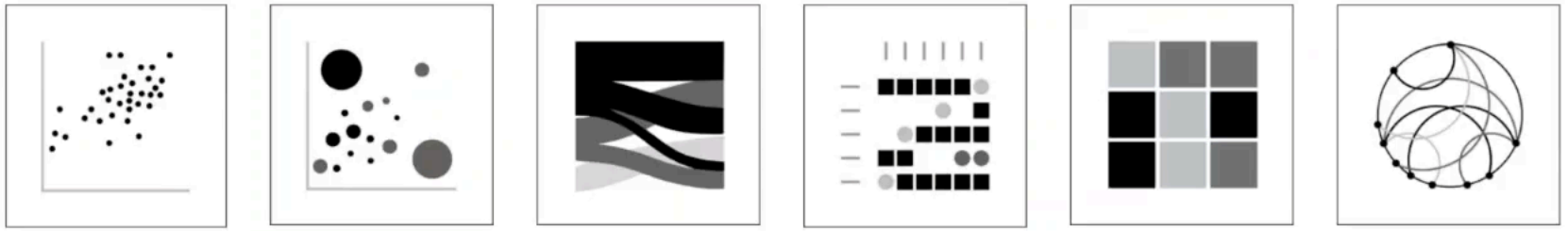
CATEGORICAL
Comparing categories and distributions of quantitative values



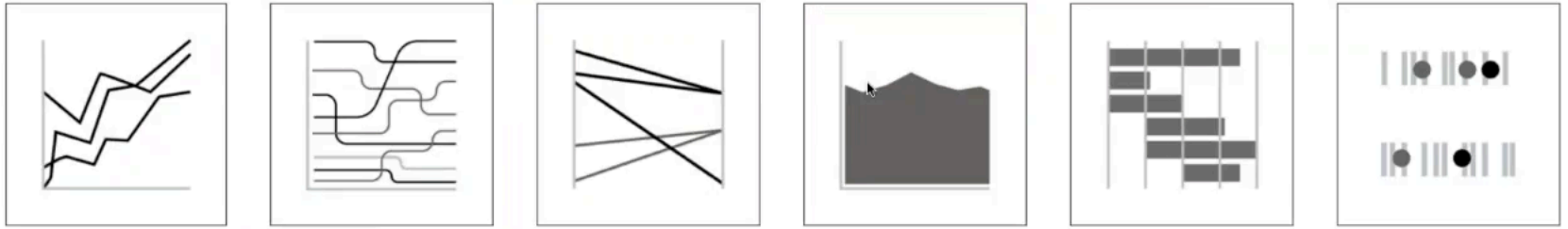
HIERARCHICAL
Charting part-to-whole relationships and hierarchies



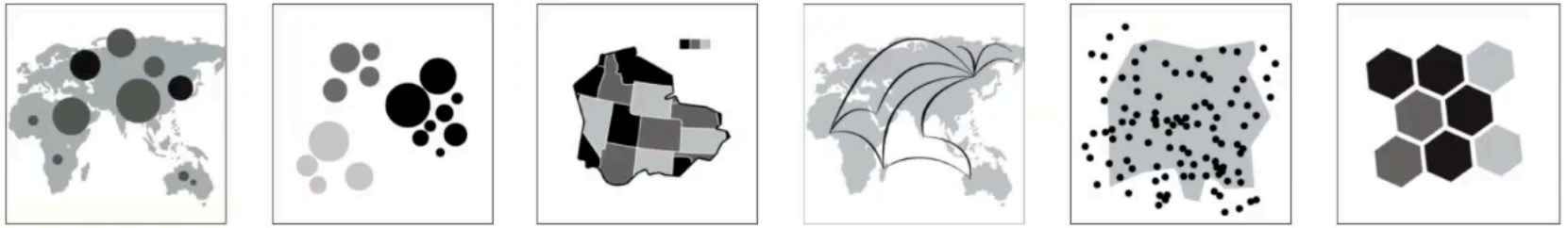
RELATIONAL
Graphing relationships to explore correlations and connections



TEMPORAL
Showing trends and activities over time

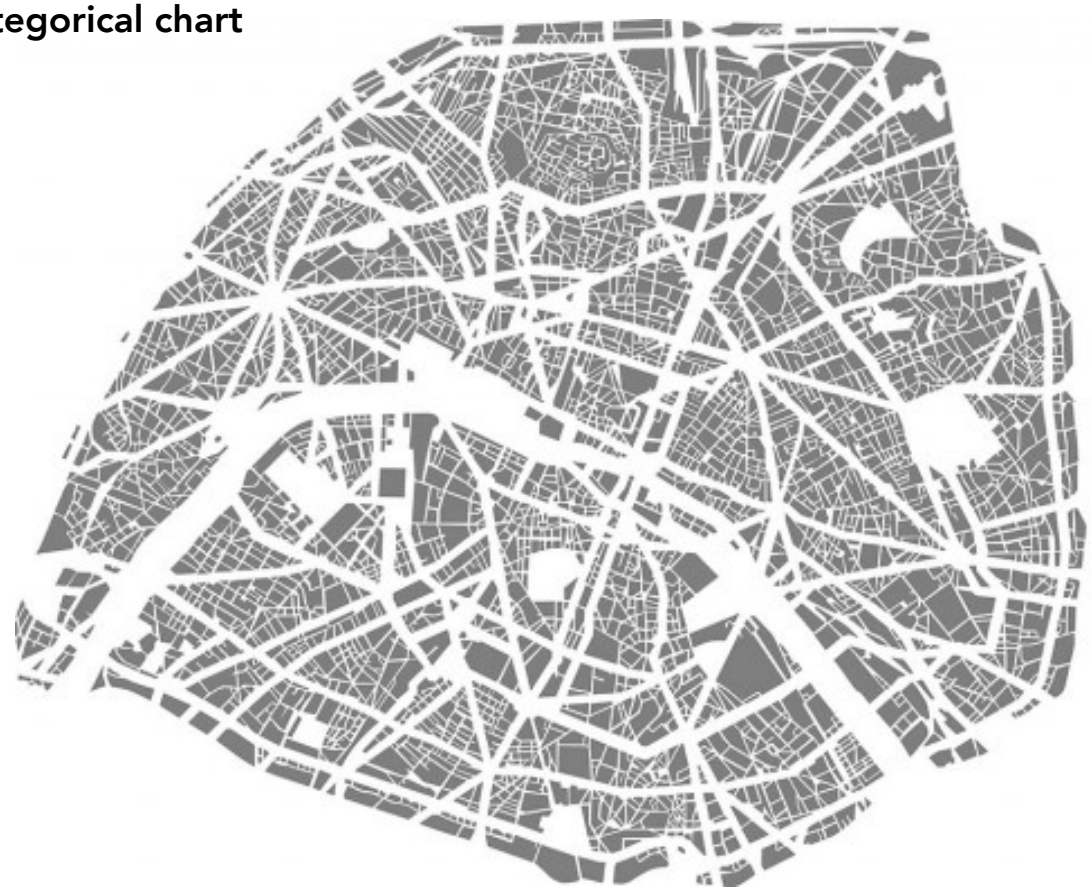


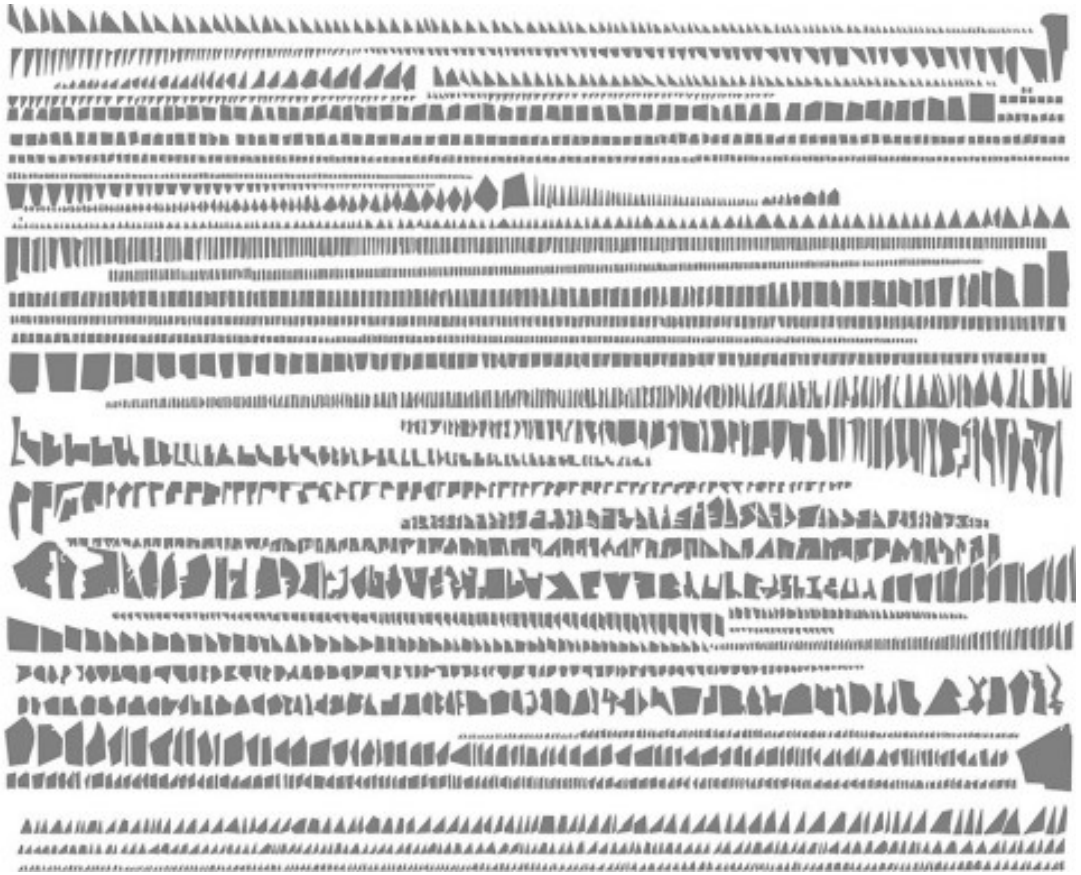
SPATIAL
Mapping spatial patterns through overlays and distortions



Andy Kirk

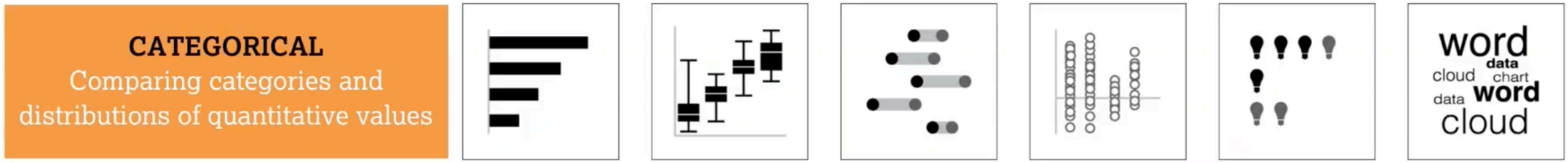
Example:
Categorical chart





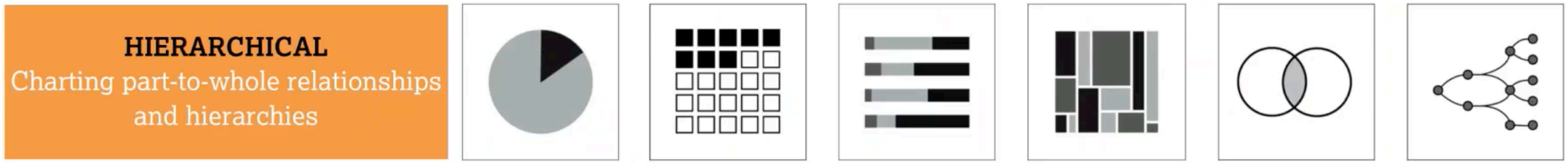
Armelle Caron

https://www.armellecaron.fr/works/les-villes-rangees/



Pie chart

Example:
Hierarchial chart



Bubble Race chart

Example:
Relational chart

Theme #1: Social

Theme #2: Physical

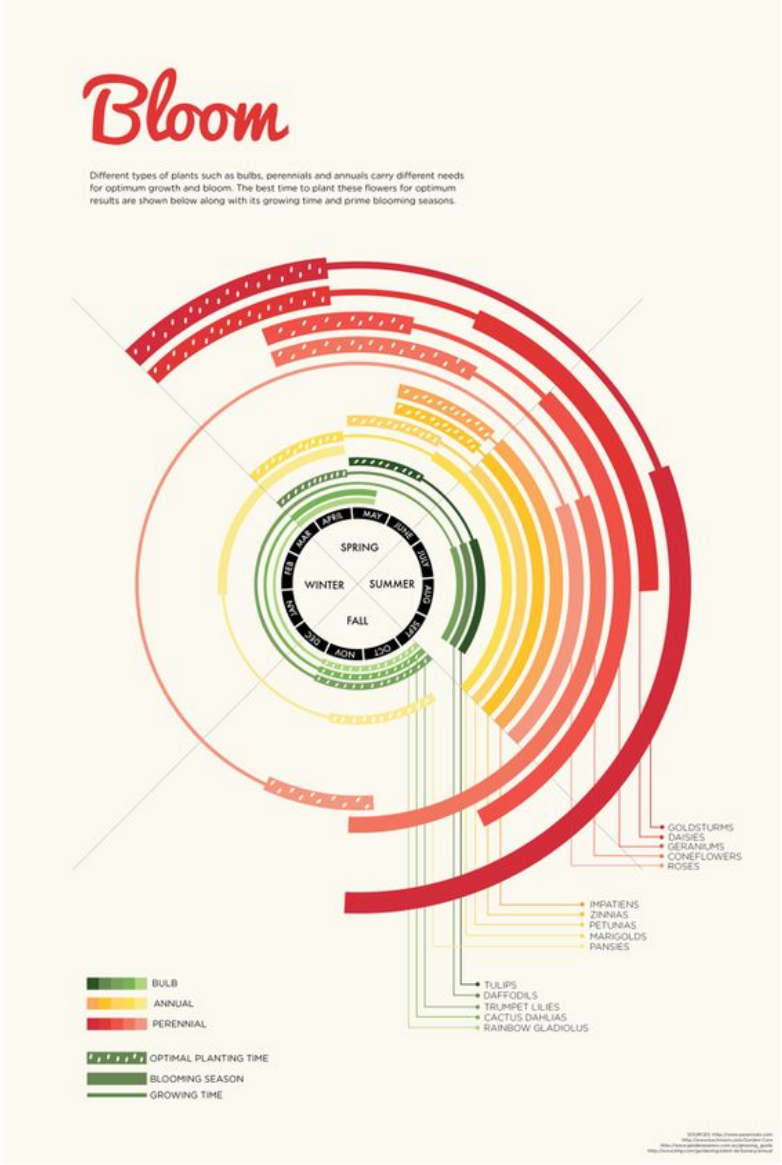
Theme #3: Personality and style

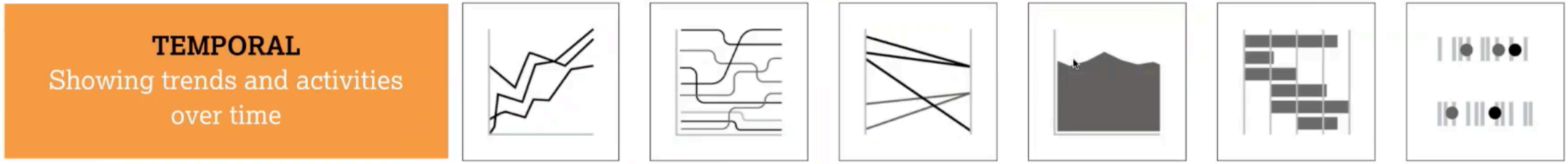
Theme #4: Thoughts and feelings

RELATIONAL
Graphing relationships to explore correlations and connections

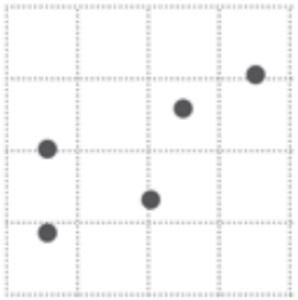
Circular chart

Example:
Temporal chart



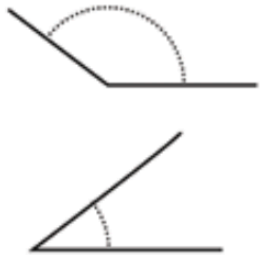


Position
Where in space the data is

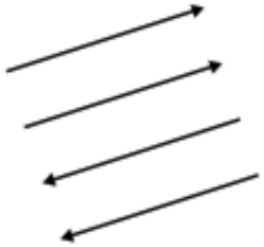


Length
How long the shapes are

Angle
Rotation between vectors



Direction
Slope of a vector in space



Shapes
Symbols as categories

Area
How much 2-D space

Volume
How much 3-D space

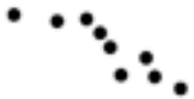
Color saturation
Intensity of a color hue

Color hue
Usually referred to as color

Visual cues

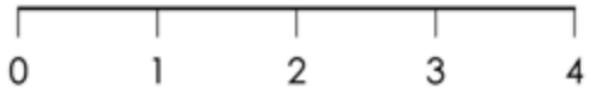
- position
- length
- angle
- direction
- shapes
- area
- volume
- color saturation
- color hue

Visual Cues

Patterns	Position	Length	Angle	Direction	Area or Volume	Color
Increase						
Decrease						
Combination						
Outlier						
Noise						

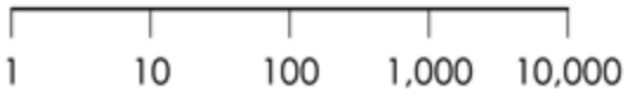
Linear

Values are evenly spaced



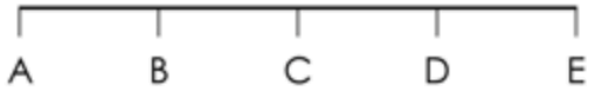
Logarithmic

Focus on percent change



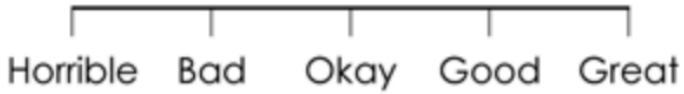
Categorical

Discrete placement in bins



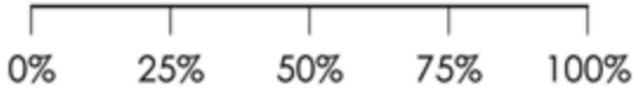
Ordinal

Categories where order matters



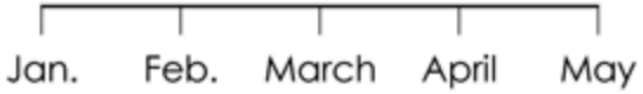
Percent

Representing parts of a whole



Time

Units of months, days, or hours



Scales

- Linear
- Categorical
- Percent
- Logarithmic
- Ordinal
- Time

Working with data: Understanding its properties and qualities

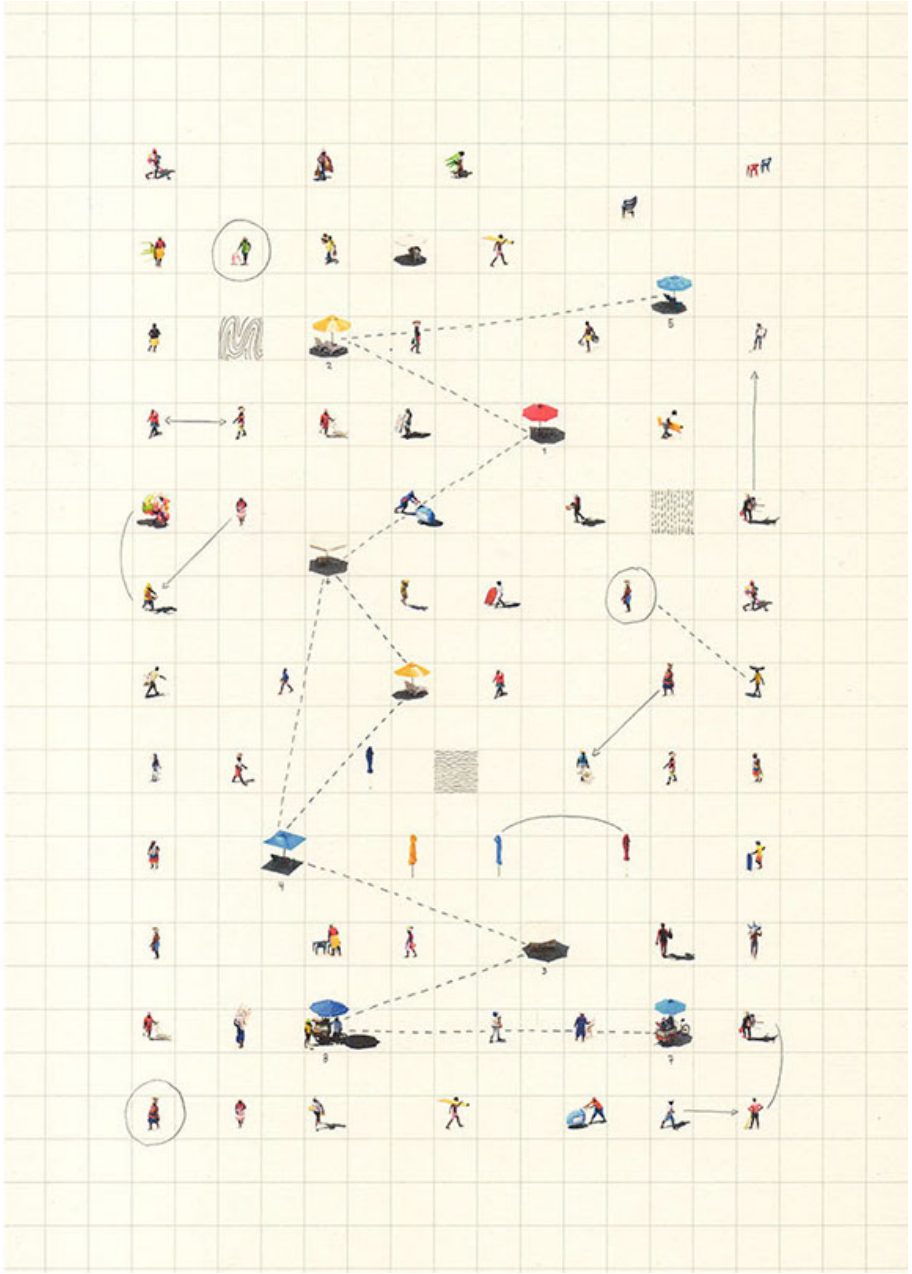
Qualitative (Textual)	Bolt quote: "**It wasn't perfect today, but I got it done and I'm pretty proud of what I've achieved. Nobody else has done it or even attempted it**"
Categorical (Nominal)	The athletics event: **Men's 100m**
Categorical (Ordinal)	The medal category: **Gold**
Quantitative (Interval)	The estimated temperature at track level during the Men's 100m: **28°C**
Quantitative (Ratio)	Usain Bolt's winning time: **9.81 seconds**

Andy Kirk

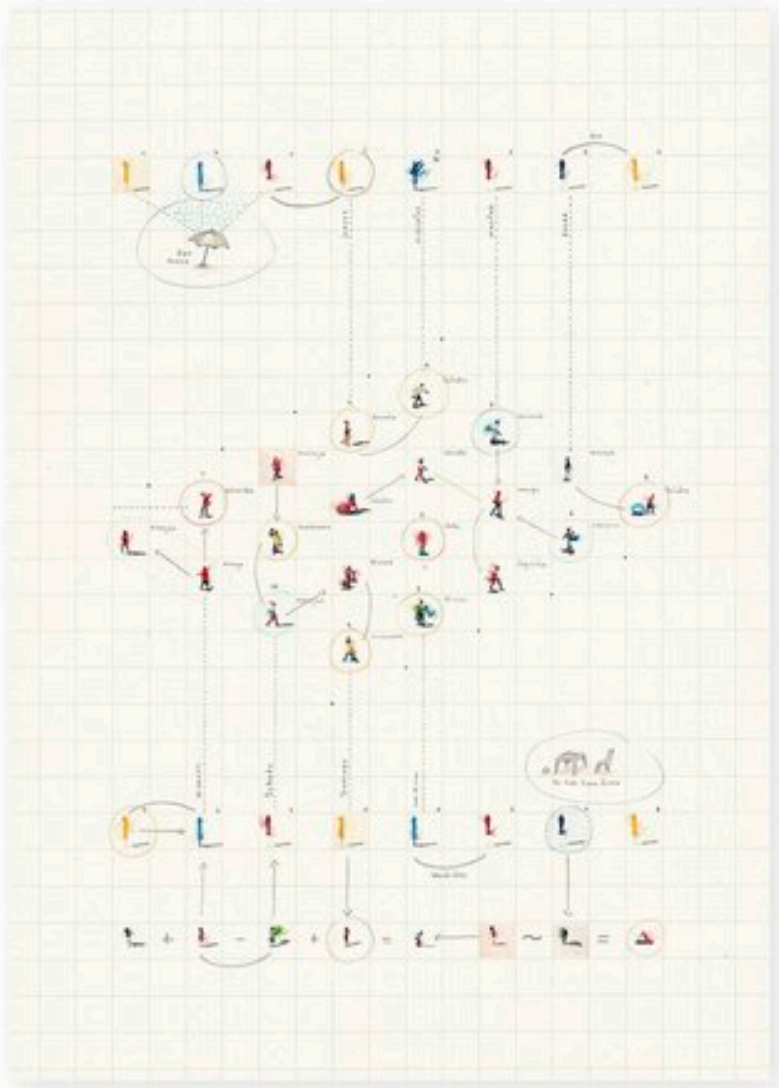
project 3

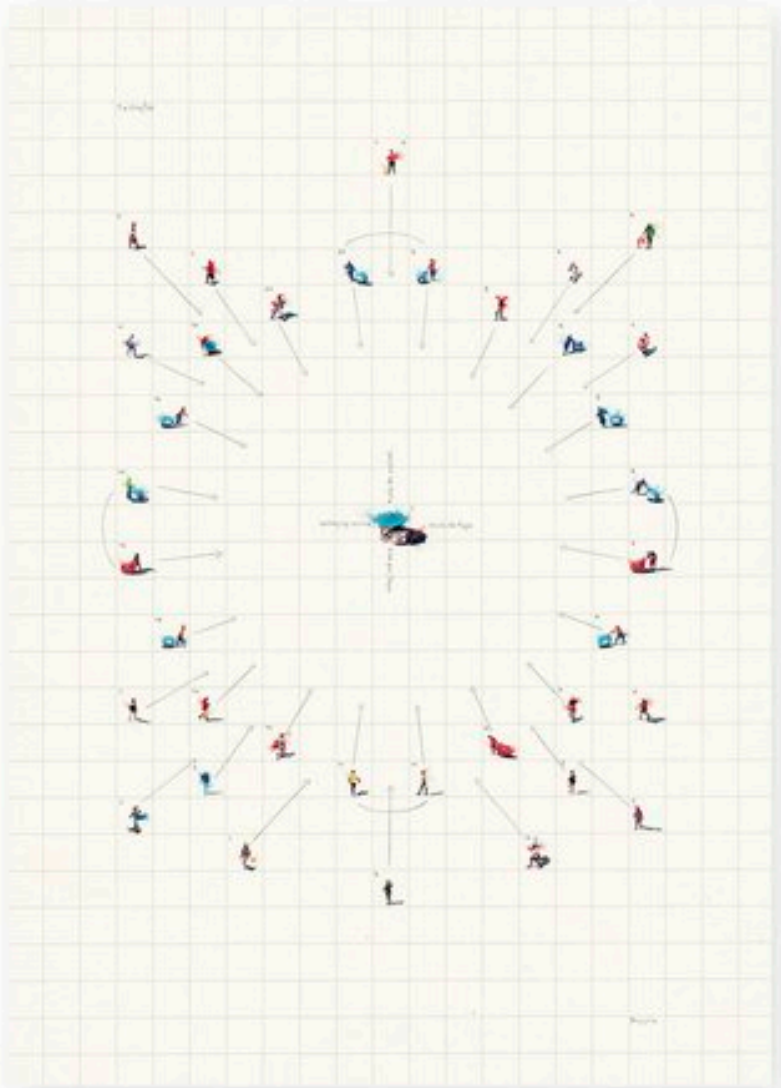
Some more examples:

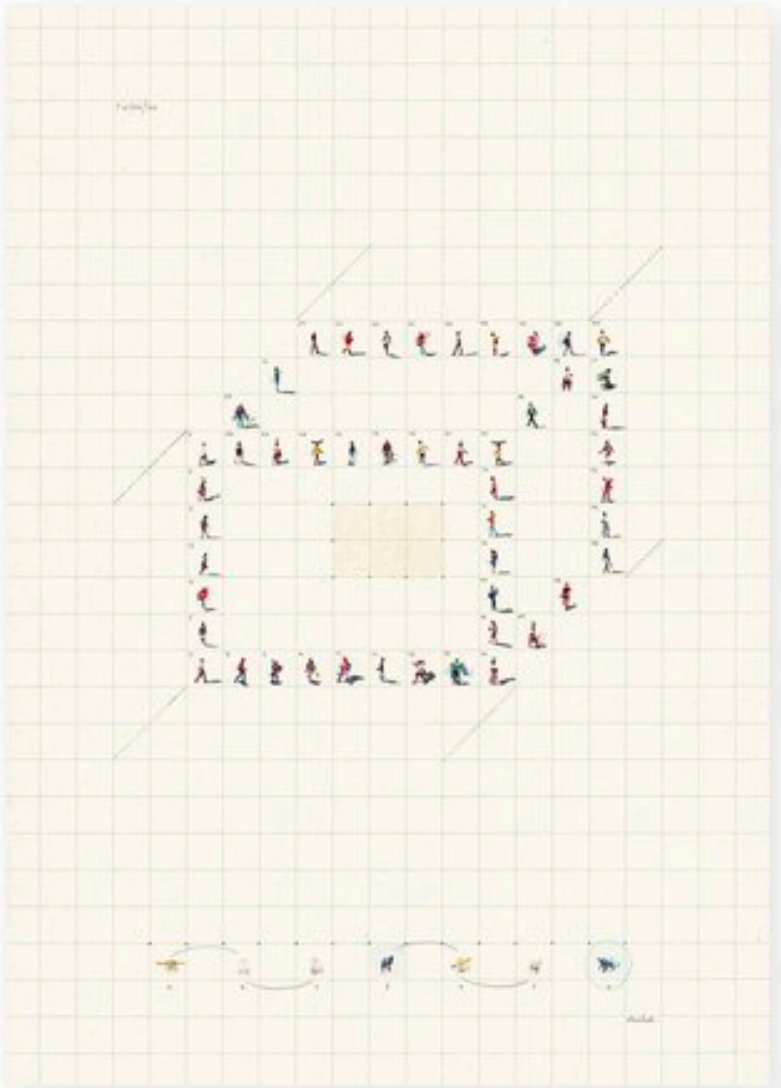
Felipe Bedoya



Felipe Bedoya

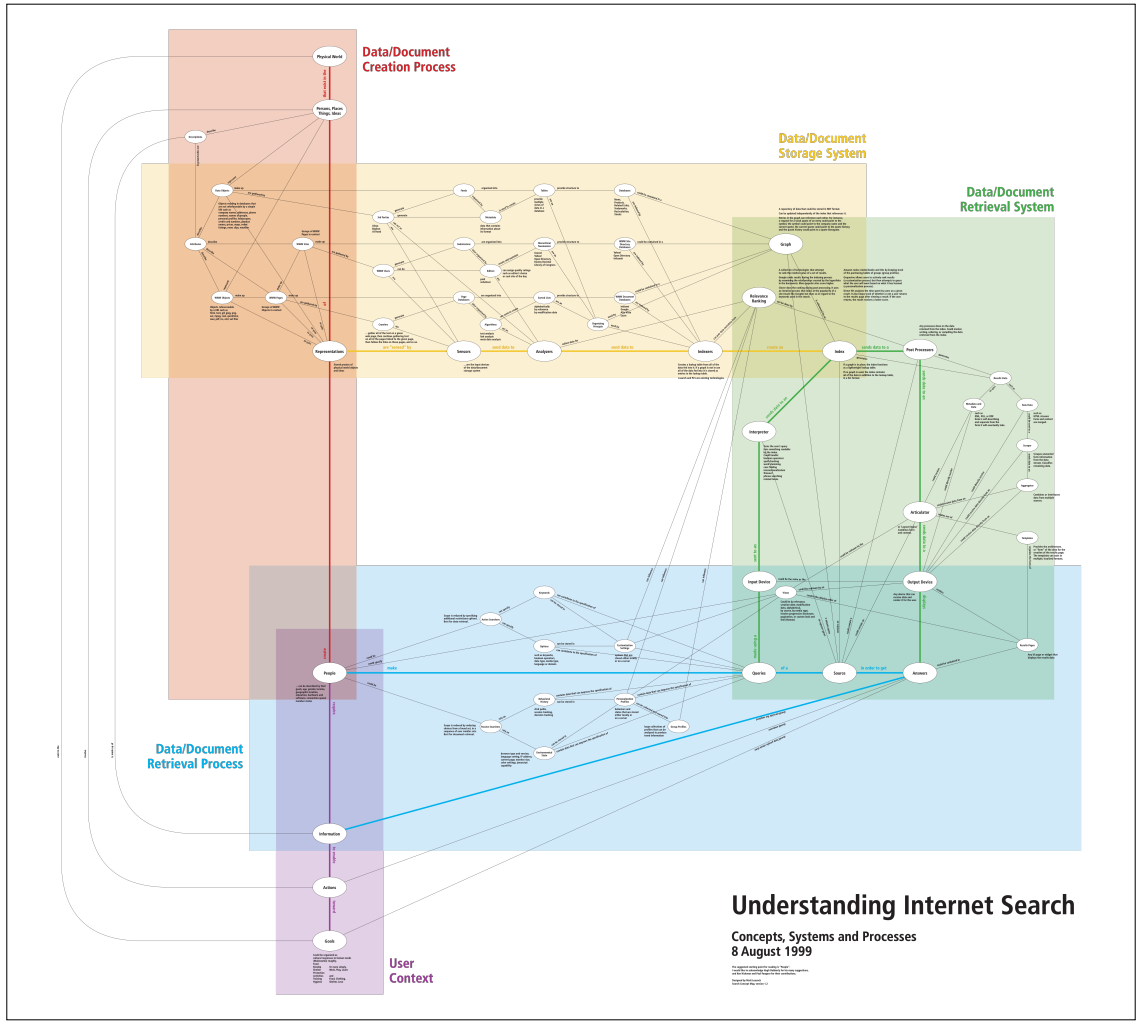




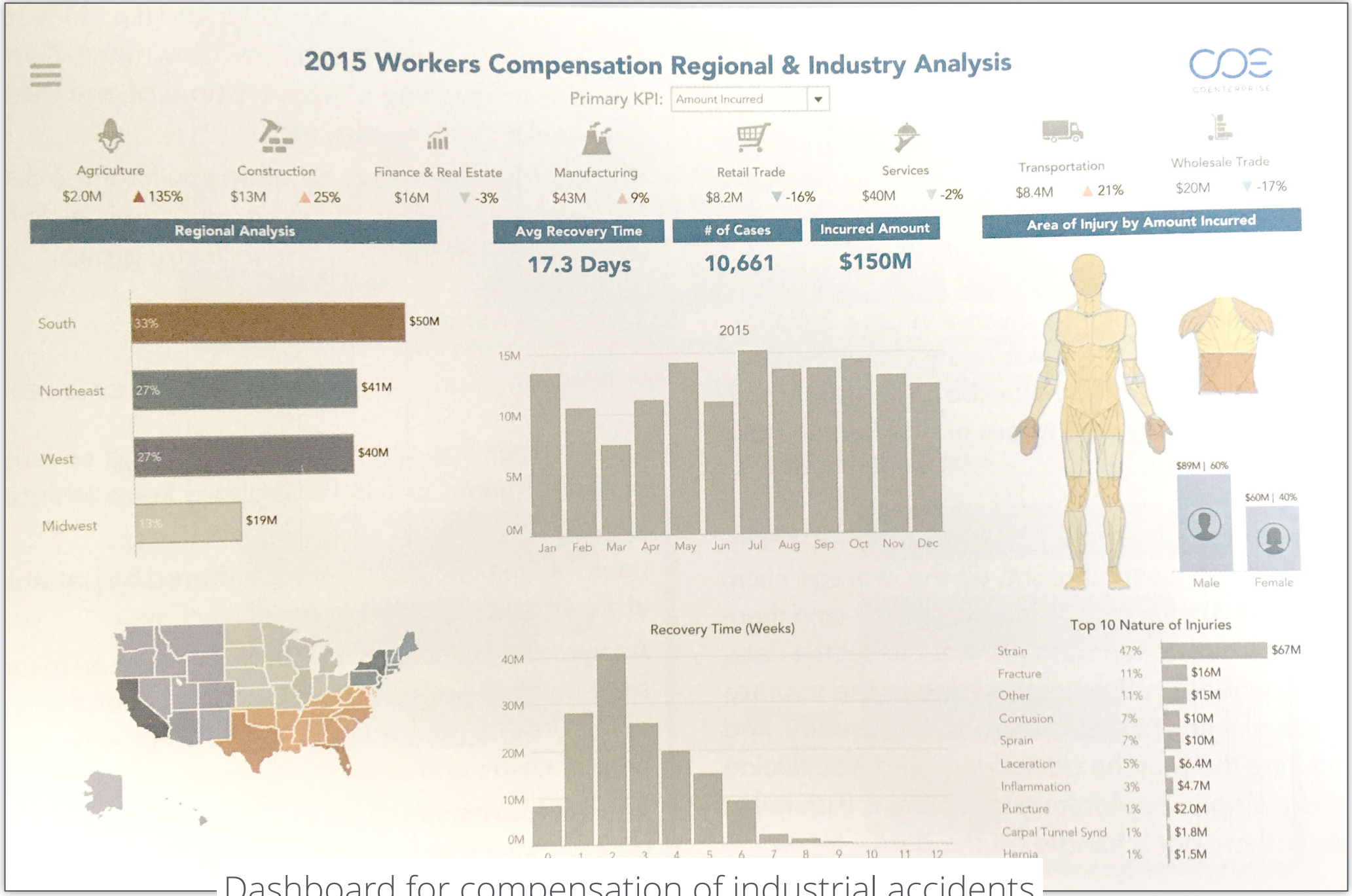


Felipe Bedoya

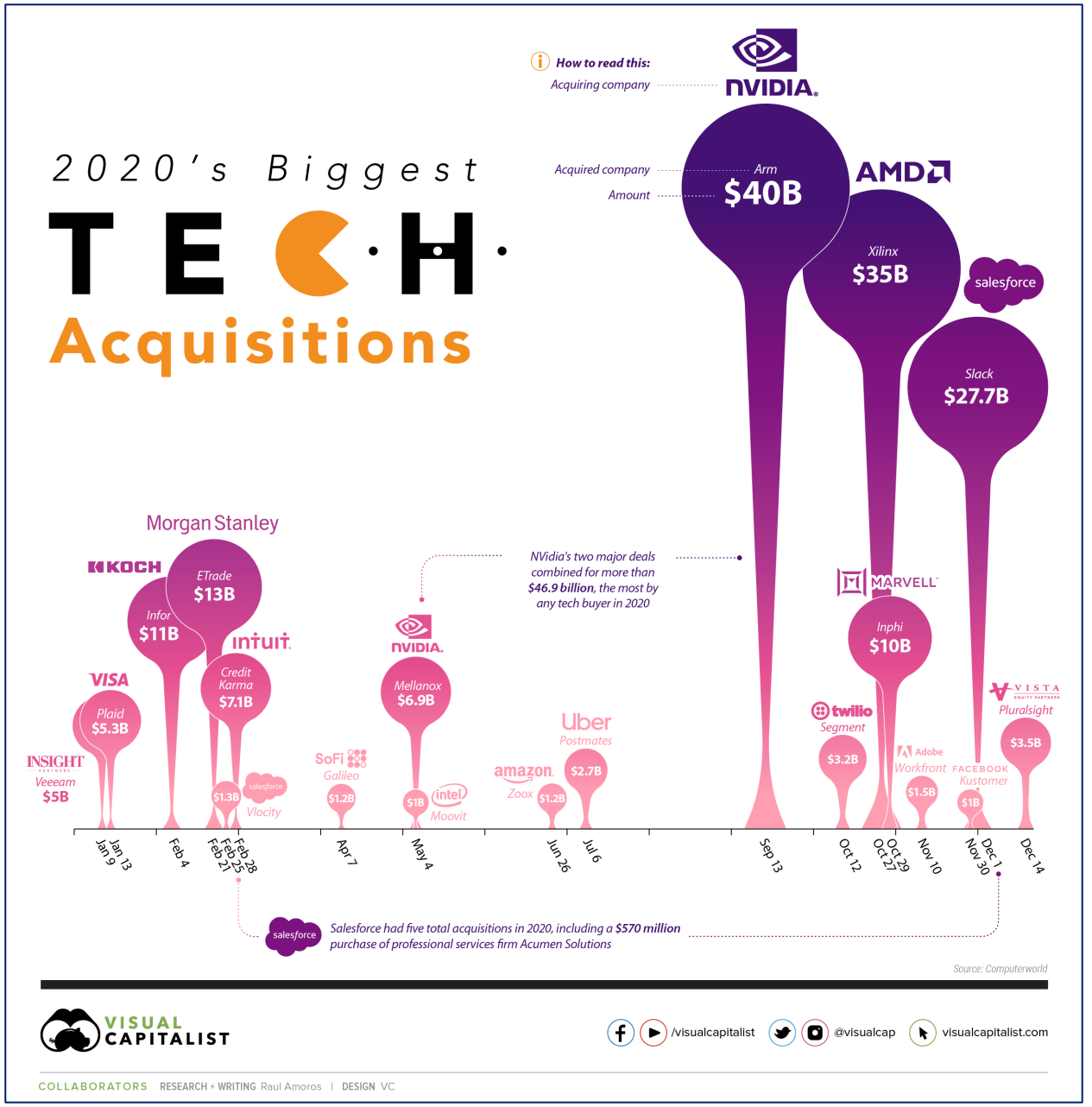
Hogeschool van Amsterdam



Dubberly Design Office: concept map



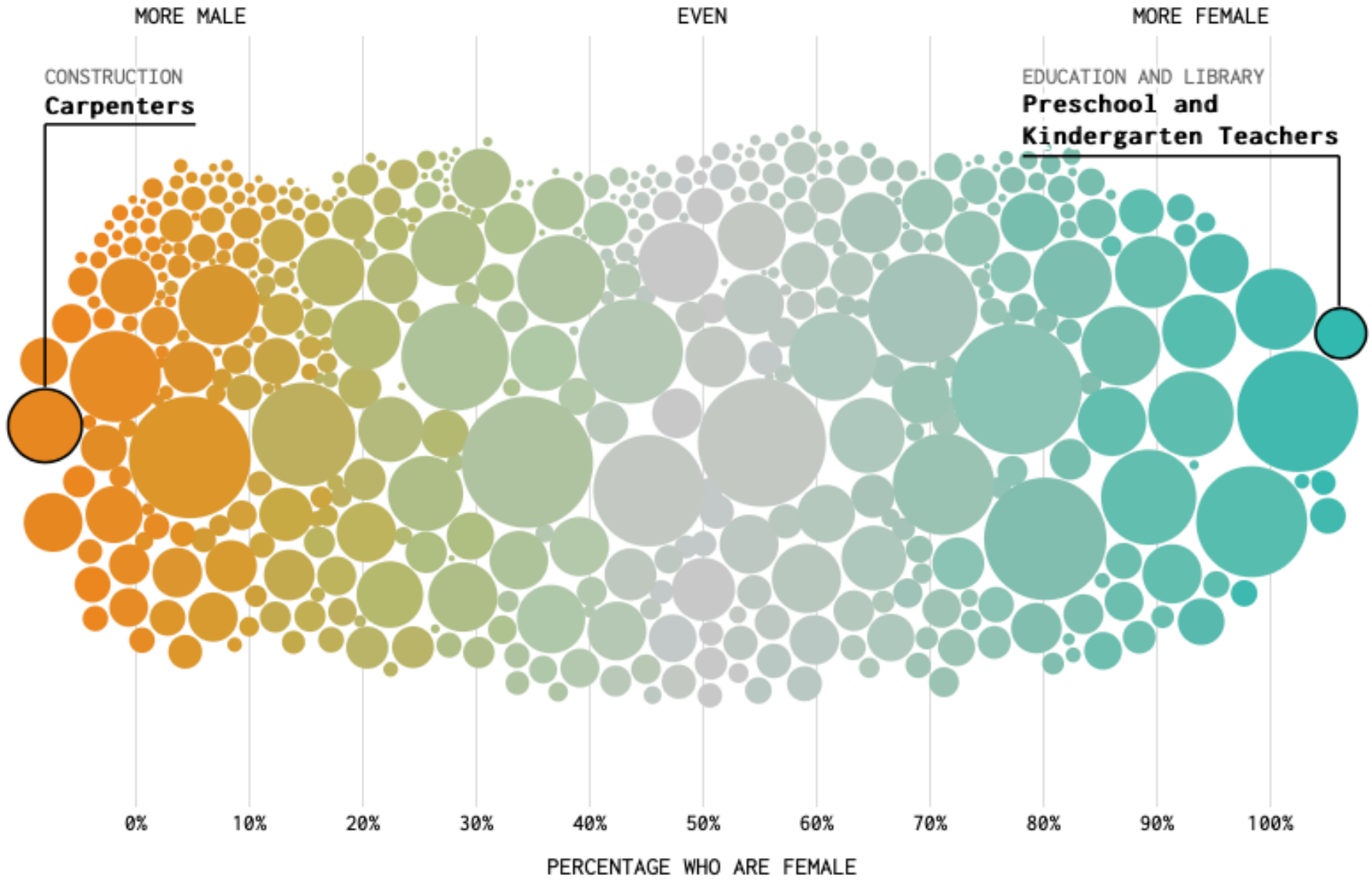
Dashboard for compensation of industrial accidents



Dashboard for building and maintenance tasks

MALE AND FEMALE OCCUPATIONS IN 2015

Larger circles represent more common jobs.



INCOME AND EXPENDITURE OF 150 NEGRO FAMILIES IN ATLANTA, GA., U.S.A.

ANNUAL INCOME.

ANNUAL EXPENDITURE FOR

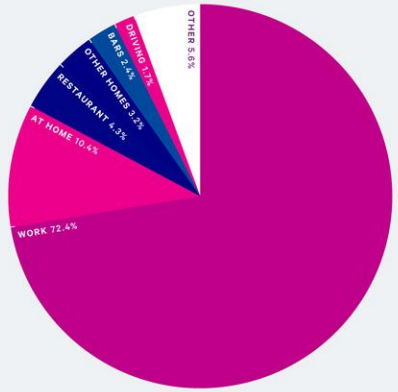
RENT.	FOOD.	CLOTHES.	DIRECT TAXES.	OTHER EXPENSES AND SAVINGS.
	DIETARY OF WELL-TO-DO NEGRO FAMILY FROM BULLETIN U.S. DEPARTMENT OF AGRICULTURE NO 71.		THE STATE TAX RATE IS: 1880 – $3.50 PER $1,000 1895 – $3.50 .. .. 1890 – $3.98 .. .. 1895 $4.56 .. .. 1899 $5.38 .. .. STATE AND COUNTY TAXES RAISE THIS TO $21 PER $1,000 IN ATLANTA.	THE HIGHER LIFE. RELIGION. ART. EDUCATION. SICKNESS. SAVINGS. AMUSEMENTS. BOOKS AND PAPERS. TRAVEL.

CLASS.	ACTUAL AVERAGE.						
$ 100-200	$ 138.10	19%	43%	28%	9.9%		
$ 200-300	$ 248.45	22%	47%	23%	4%	4%	POOR.
$ 300-400	$ 335.66	23%	43%	18%	4.5%	11.5%	FAIR.
$ 400-500	$ 433.82	18%	37%	15%	5.5%	24.5%	
$ 500-750	$ 547	13%	31%	17%	5%	34%	COMFORTABLE.
$ 750-1000	$ 880	37%	19%	8%	36%		
1,000 AND OVER	$ 1125	29%	16%	4.5%	50.5%		WELL-TO-DO

FOR FURTHER STATISTICS RAISE THIS FRAME.

With Ryan

EVERYWHERE



DAYS TOGETHER

79¾

471 different encounters

MOST TIME SPENT TOGETHER

PALO ALTO — 58½ DAYS

MANHATTAN — 11 DAYS

BROOKLYN — 2½ DAYS

SAN FRANCISCO — 1¼ DAYS

MILL VALLEY — 1¼ DAYS

MOST VISITED PLACE TOGETHER

Facebook 1601

194 visits

COFFEES ENJOYED WITH RYAN

269

92% filter coffees

SODAS CONSUMED WITH RYAN

Seven

4 Oranginas, 2 Coca-Colas and 1 Izze Soda

BARS VISITED TOGETHER

21

15 in New York City

TIME TOGETHER

DAY MOST FREQUENTLY TOGETHER

Wednesday

22% of time together

DIFFERENT CITIES VISITED WITH RYAN

12

Burlingame, Cupertino, Menlo Park, Mill Valley, New York City, Palm Desert, Palm Springs, Palo Alto, Portola Valley, San Francisco, San Rafael and Sunnyvale

TIME SPENT WITH RYAN AND...

OLGA — 4½ DAYS

BONNIE — 2¾ DAYS

MATT — 2½ DAYS

AMADOR — 2 DAYS

JESSICA — 1 DAY

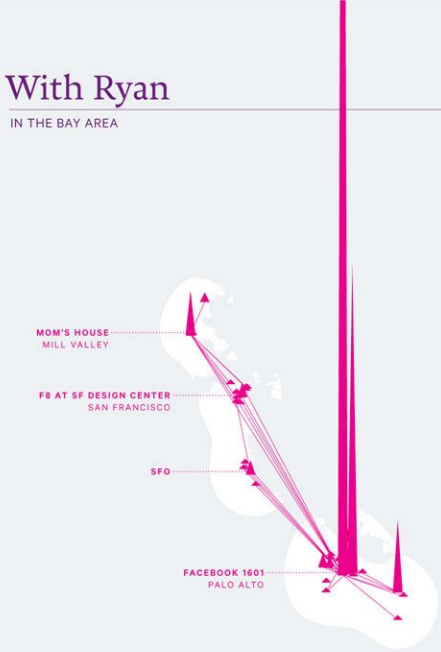
WEDDINGS ATTENDED TOGETHER

One

Aaron & Jessica's wedding

With Ryan

IN THE BAY AREA



DAYS TOGETHER IN THE BAY AREA

63¼

Approximately 79% of time together

BAY AREA PLACES VISITED TOGETHER

59

16 restaurants, 7 homes, 6 bars, 4 offices, 3 gas stations, 3 parking lots, 3 shops, 2 airports terminals, 2 open houses, 2 outdoor places, 2 venues, 2 workplaces, a bank, a bowling alley, a grocery store, a liquor store, a parking garage, a racetrack and a rental car office

MEALS TOGETHER AT FACEBOOK

197

91% of meals out together in the Bay Area

TOP BEVERAGES IN BAY AREA WITH RYAN

FILTER COFFEE — 253 SERVINGS

SIERRA NEVADA PALE ALE — 47 SERVINGS

COCONUT WATER — 38 SERVINGS

GRAPEFRUIT JUICE — 19 SERVINGS

CARROT JUICE — 18 SERVINGS

OLDEST SCOTCH ENJOYED WITH RYAN

Chieftain's Springbank 40

To celebrate the launch of timeline

TIME TOGETHER IN THE BAY AREA

MOST FREQUENTED CITY TOGETHER

Palo Alto

Approximately 92% of time in the Bay Area

MOST VISITED BAY AREA PLACES

FACEBOOK 1601 — 282 VISITS

PALO ALTO APARTMENT — 62 VISITS

STANFORD VILLAS — 24 VISITS

SUNNYVALE APARTMENT — 14 VISITS

MOM'S HOUSE — 9 VISITS

TOP SPORTING ACHIEVEMENT WITH RYAN

Five Strikes in a Row

June 1, 2011 at Bowlmor Cupertino

MOST VISITED RESTAURANT TOGETHER

Palo Alto Sol

Visited 6 times

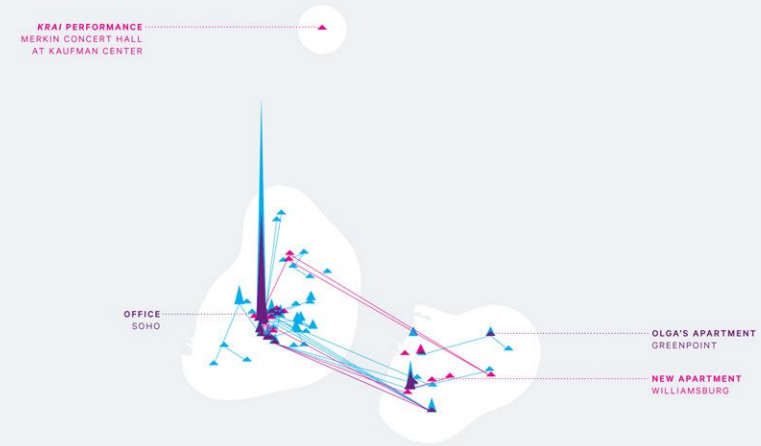
TOP SONG WITH RYAN IN BAY AREA

"Adult Goth"

By Gang Gang Dance — 36 listens

With Ryan

IN NEW YORK CITY



DAYS TOGETHER IN NEW YORK CITY

13½

Approximately 17% of time together

MOST VISITED NYC PLACES

OFFICE — 67 VISITS

LA COLOMBE SOHO — 10 VISITS

RYAN & BONNIE'S APARTMENT — 10 VISITS

SPRING STREET NATURAL — 5 VISITS

MEXICAN RADIO — 4 VISITS

TIME TOGETHER IN NEW YORK CITY

SONGS LISTENED TO WITH RYAN

1,513

2% of songs from *Reptilians* by Starfucker

NYC PLACES VISITED TOGETHER

73

30 restaurants, 15 bars, 6 homes, 5 outdoor places, 4 shops, 4 venues, 2 airport terminals, 2 delis, a cinema, a coffee shop, a hotel, an office and work

MOVIES SEEN IN NYC TOGETHER

Inception

With Olga & Bonnie — July 18, 2010

NYC BAR VISITED MOST TOGETHER

The Room

Visited 4 times

FAVORITE NYC BEER WITH RYAN

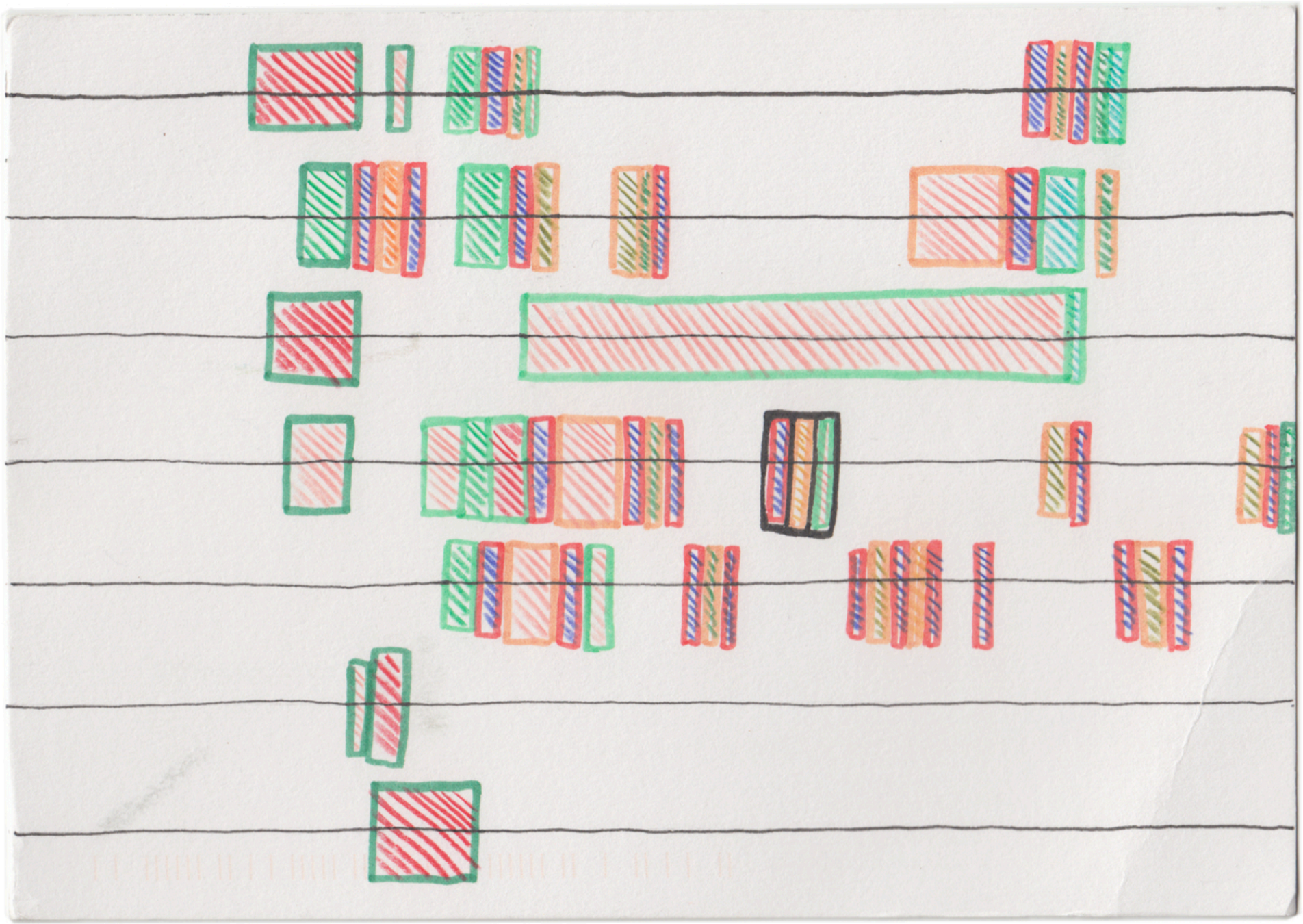
Guinness

9 servings

BEERS IN NYC AFTER MIDNIGHT WITH RYAN

2

Brooklyn IPA and a Negra Modelo

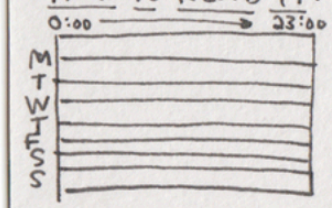


DEAR DATA - WEEK 30

A WEEK OF BEING ALONE

THE DATA: I COUNTED MOMENTS WHEN I WAS ALONE, ALONE BEING THAT I WAS IN A PLACE FILLED WITH STRANGERS OR IN A PLACE WHERE I WAS PHYSICALLY ALONE. I'VE ALSO DIFFERENTIATED BETWEEN BEING ALONE AND FEELING ALONE.

HOW TO READ IT:



EACH REPRESENTS A TIME I WAS ALONE.

THE WIDTH OF THE BAR INDICATES THE LENGTH OF TIME I WAS ALONE IN THIS PARTICULAR SITUATION, SCALED TO THE WIDTH OF THE CARD (= 24 HOURS.)

WAYS I WAS ALONE:

- IN HOUSE WITH HUSBAND ASLEEP
- PHYSICALLY ALONE IN A SPACE
- ALONE IN A SPACE FILLED W/ STRANGERS
- ALONE IN A CITY OF STRANGERS (OUTSIDE)
- THE ONLY TIMES I FELT EMOTIONALLY ALONE

WHAT I WAS DOING WHEN I WAS ALONE:

- EXERCISING
- SHOPPING
- WORKING
- DEAR DATA!
- WASTING TIME ON INTERNET
- MORNING/ EVENING ROUTINES
- WALKING
- TRAVELLING (PUBLIC TRANSPORT)
- BUYING/ PREPARING FOOD, GETTING COFFEE

TOP 3 ACTIVITIES I DID WHILE ALONE THIS WEEK:

1. WORK - 17:11 (I WORK FROM HOME WHEN I'M LAZY)
2. DEAR DATA - 6:56 (I GET UP EARLY TO DRAW)
3. WALKING - 5:46 (I WALK TO/FROM MY STUDIO)

FROM:
S POSAVEC

[redacted]
UK

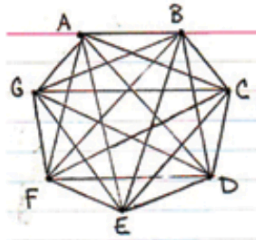
Royal Mail
Mount Pleasant
Mail Centre
07-04-2015
44016000

97p

TO: GIORGIA LUPI

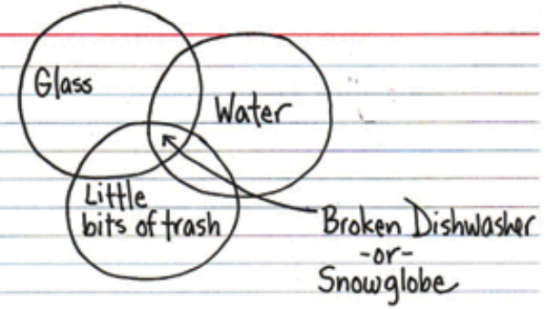
[redacted]
BROOKLYN, NY 11249
USA

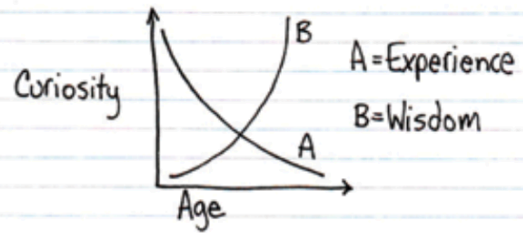
BY AIR MAIL
par avion
Royal Mail®

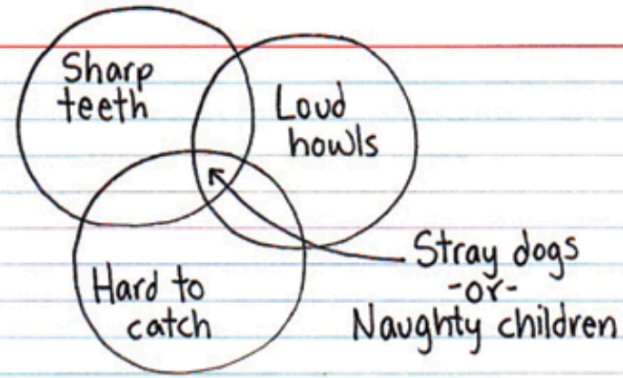


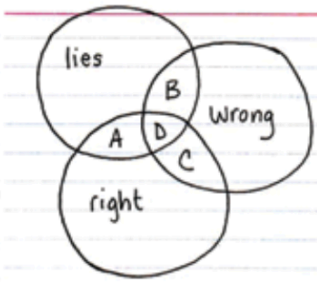
A = Lust
B = Gluttony
C = Greed
D = Sloth
E = Wrath
F = Envy
G = Pride

$\overline{AB}$ = Edible Undies
$\overline{AC}$ = Prostitution
$\overline{AD}$ = Quickie
$\overline{AE}$ = Domestic Abuse
$\overline{AF}$ = Adultery
$\overline{AG}$ = Trophy Wife
$\overline{BC}$ = Last Donut
$\overline{BD}$ = Saturday
$\overline{BE}$ = Bulimia
$\overline{BF}$ = High Metabolism
$\overline{BG}$ = Fat men in Speedos
$\overline{CD}$ = Get Rich Quick Scams
$\overline{CE}$ = Muggings
$\overline{CF}$ = Advertising
$\overline{CG}$ = Status Symbols
$\overline{DE}$ = Passive Aggression
$\overline{DF}$ = Welfare
$\overline{DG}$ = Slackers
$\overline{EF}$ = Cattiness
$\overline{EG}$ = Boxing
$\overline{GF}$ = 2nd Place

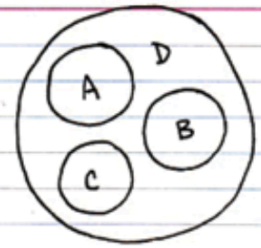




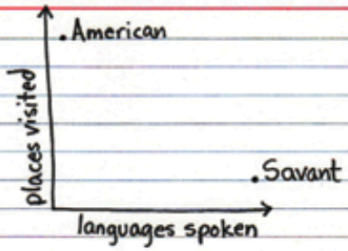


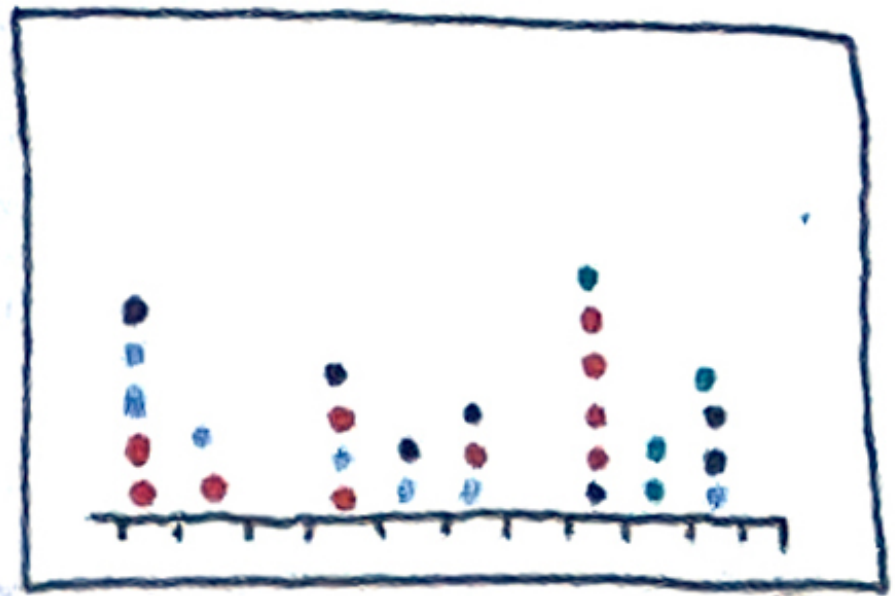


A = "You don't look fat at all"
B = "I'm not drunk, ocifers"
C = turning on red in London
D = "We're winning in Iraq"

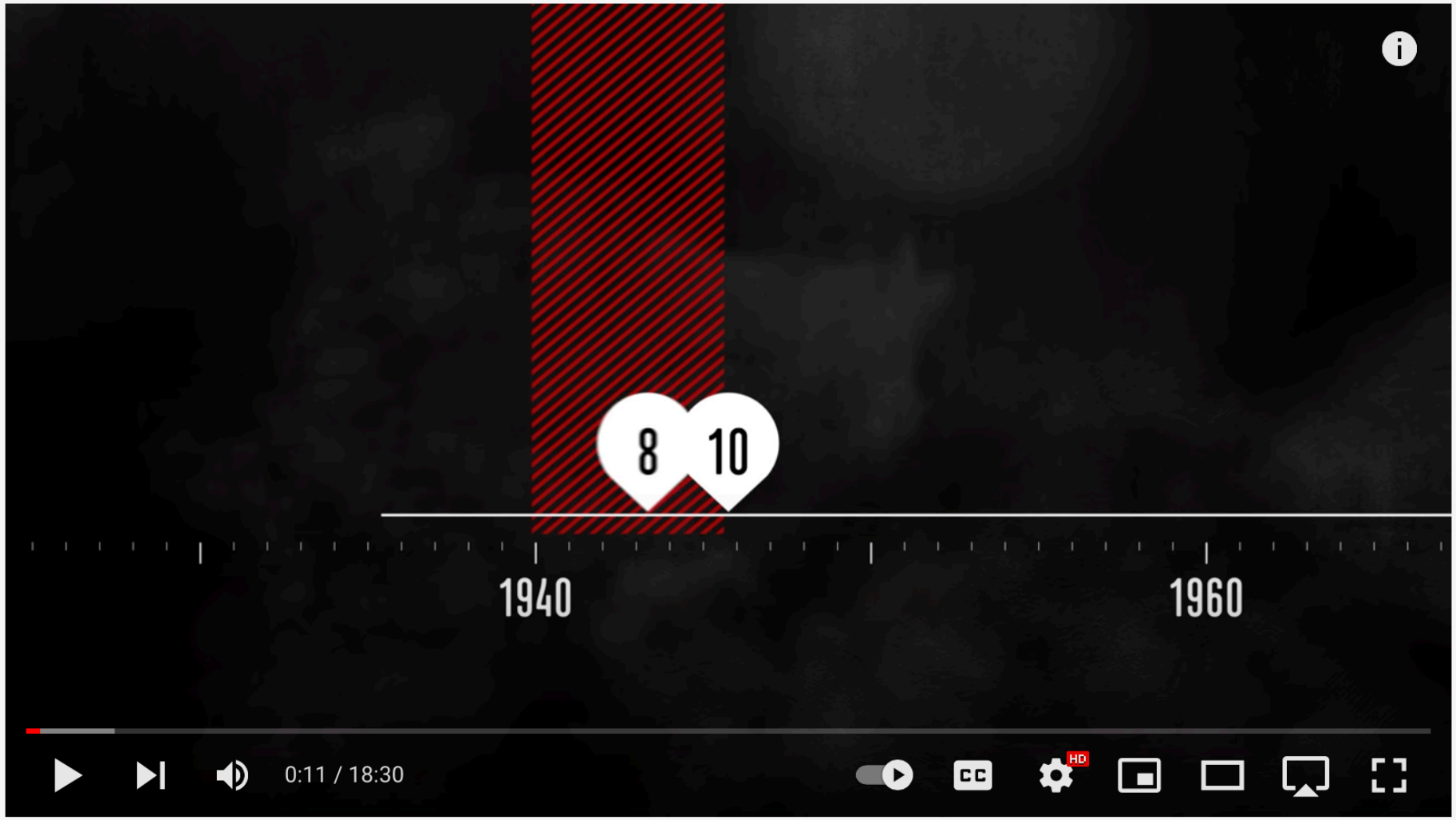


A = Striptease
B = Limbo
C = Polka
D = Dances involving Poles



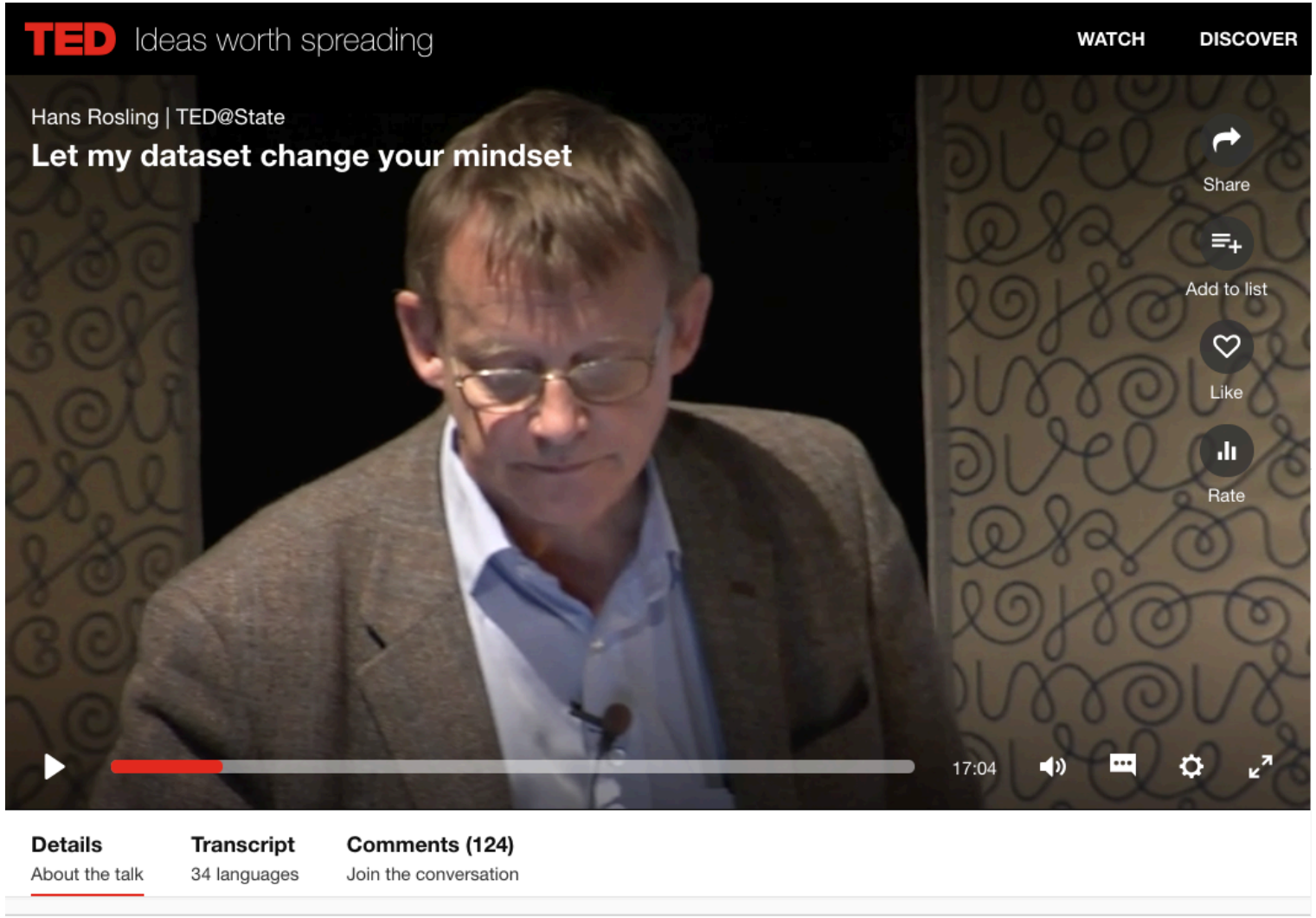


... IN CHRONOLOGICAL ORDER...



The Fallen of World War II

Watch on youtube: https://www.youtube.com/watch?v=DwKPFT-RioU



[Watch on TED: https://www.ted.com/talks/hans_rosling_at_state#t-153592](https://www.ted.com/talks/hans_rosling_at_state#t-153592)

The deadline to deliver a complete first version of two or three new graphics representing data from your spatial graphic is: Friday, June 3, 2022. 17:00 hours.

Add your work to the Miro board:

https://miro.com/app/board/uXjVO8fTpio=/?share_link_id=995166510691

project 3

Have fun!