

Recap Week 9



"The purpose of visualization is insight, not pictures"

- Ben Shneiderman

#1 TO SEE

1	4	5	7	8	3	8	3	2
6	3	2	6	1	5	3	8	3
4	6	7	8	8	8	7	5	7
6	8	3	4	5	5	6	8	9
2	1	4	9	6	4	2	5	6

#1 TO SEE

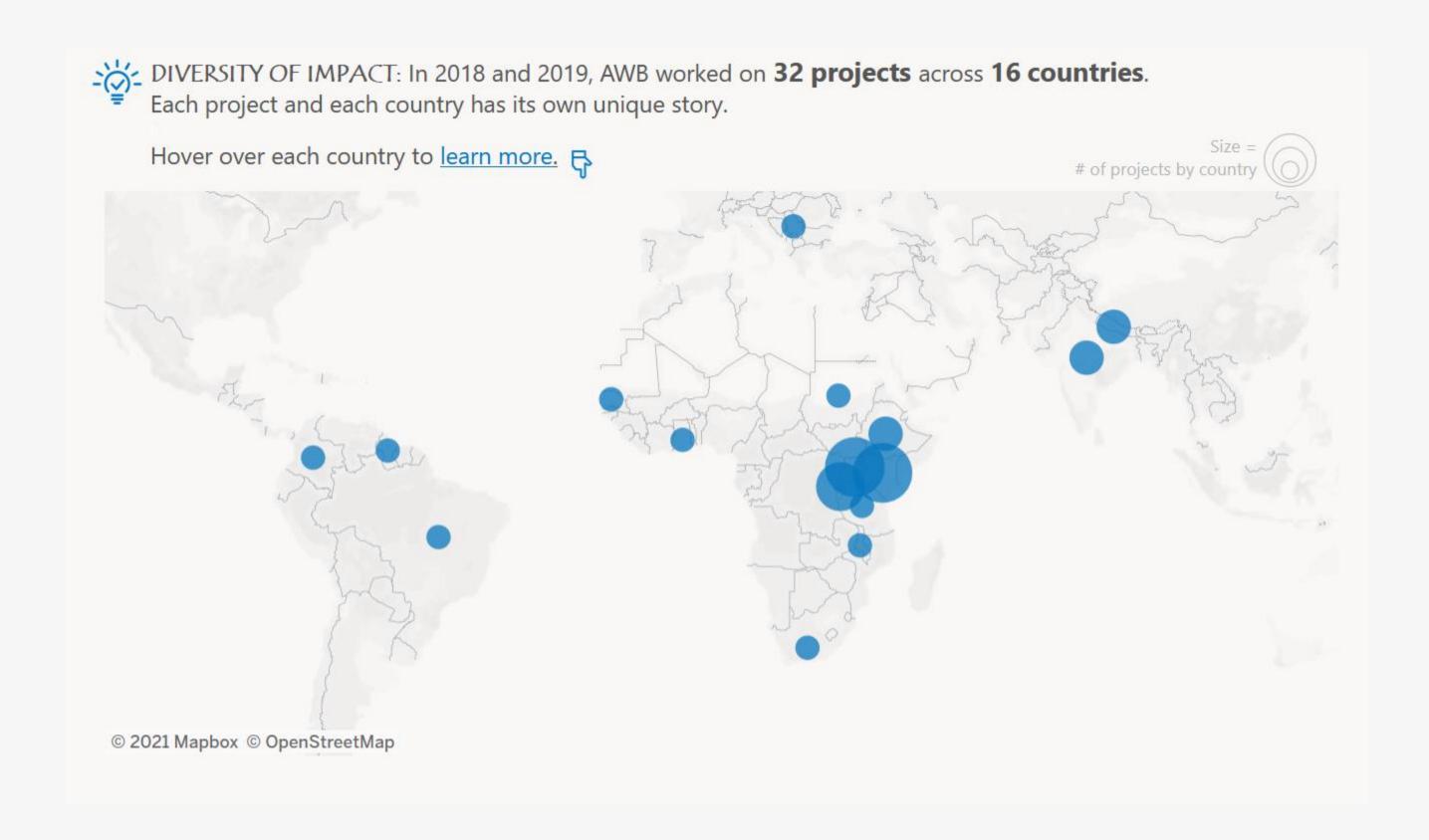
1	4	5	7	8	3	8	3	2
6	3	2	6	1	5	3	8	3
4	6	7	8	8	8	7	5	7
6	8	3	4	5	5	6	8	9
2	1	4	9	6	4	2	5	6

-

#2 TO REMEMBER

Row Labels	→ Count of Partner Institution
Kenya	21
Ghana	15
Liberia	13
Rwanda	9
Nepal	8
Ethiopia	8
Uganda	7
Tanzania	5
Indonesia	4
Ethiopia	2
Colombia	2
Namibia	2
India	2
Guyana	2
Sierra Leone	2
Bhutan	2
Kyrgyzstan	1
Tanzania	1
Serbia	1

#2 TO REMEMBER



#3 TO PERSUADE

The Persuasive Power of Data Visualization

Anshul Vikram Pandey, Anjali Manivannan, Oded Nov, Margaret Satterthwaite, and Enrico Bertini, *Member, IEEE*

Table 4. Persuasion likelihood of participants (who answered all the attention check questions correctly) in the NWP category.

Corporate Income Tax

Treatment	Total	(+) change	No change	(-) change
Charts	54	36/54 (66.67%)	18/54 (33.33%)	0/54 (0%)
Tables	45	20/45 (44.44%)	22/45 (48.88%)	3/45 (6.66%)

Incarceration

Treatment	Total	(+) change	No change	(-) change
Charts	50	36/50 (72%)	13/50 (26%)	1/50 (2%)
Tables	56	27/56 (48.21%)	26/56 (46.43%)	3/56 (5.36%)

Video Games

Treatment	Total	(+) change	No change	(-) change
Charts	55	35/55 (63.63%)	19/55 (34.54%)	1/55 (1.81%)
Tables	63	23/63 (36.51%)	38/63 (60.32%)	2/63 (3.17%)

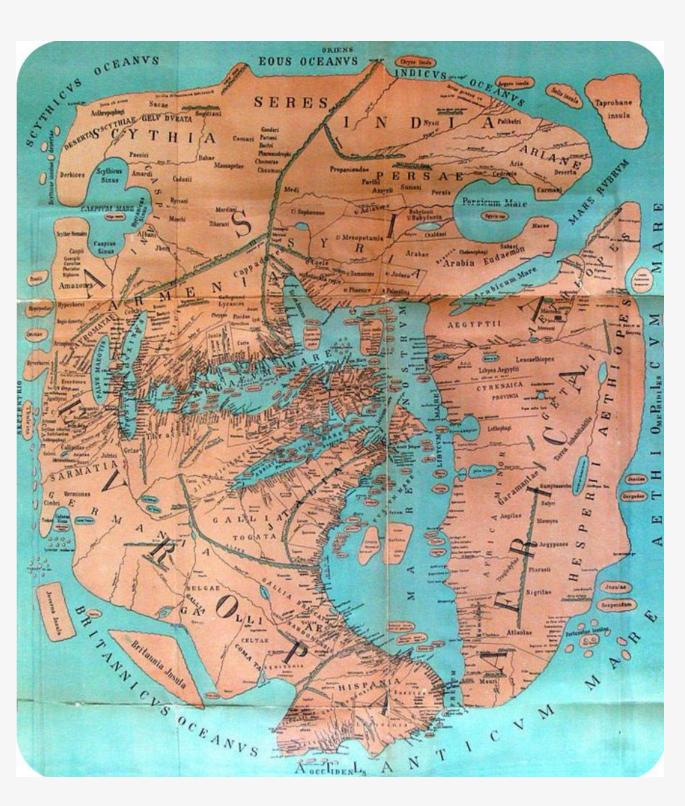
DATA VIZ HISTORY

PRE-HISTORY



- · Babylonians, Egyptians, Greeks and Chinese
- · Clay, papyrus

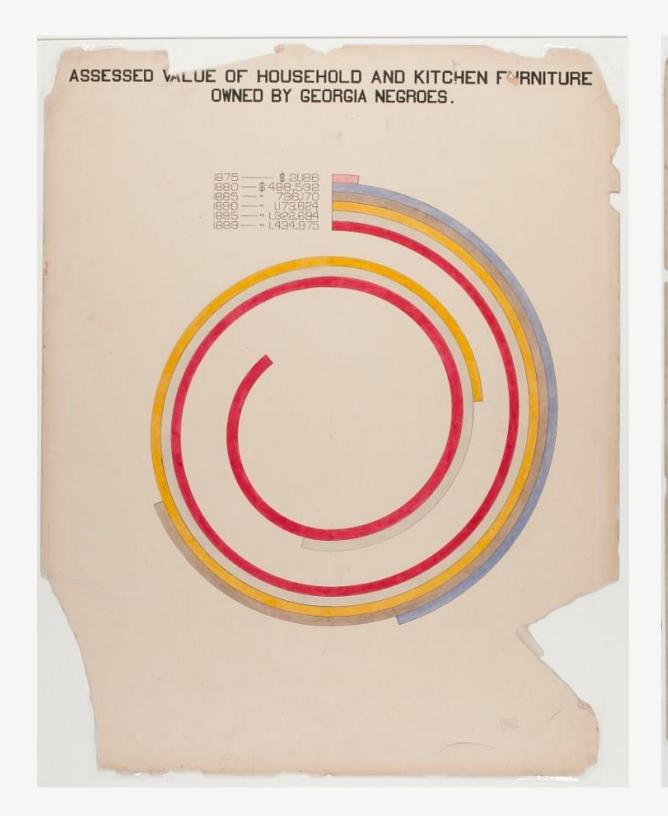
MAPS (1-2 AD)

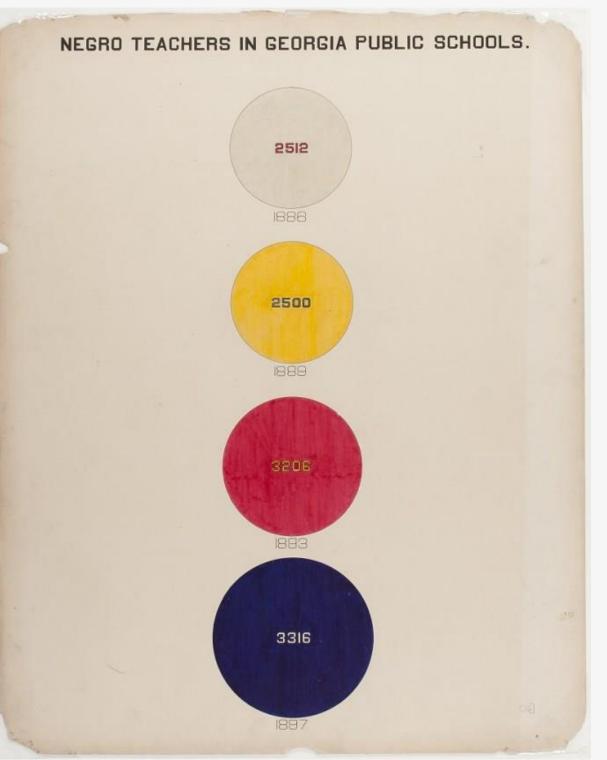


1st century AD Rome

W. E. B. DU BOIS (1868-1963)

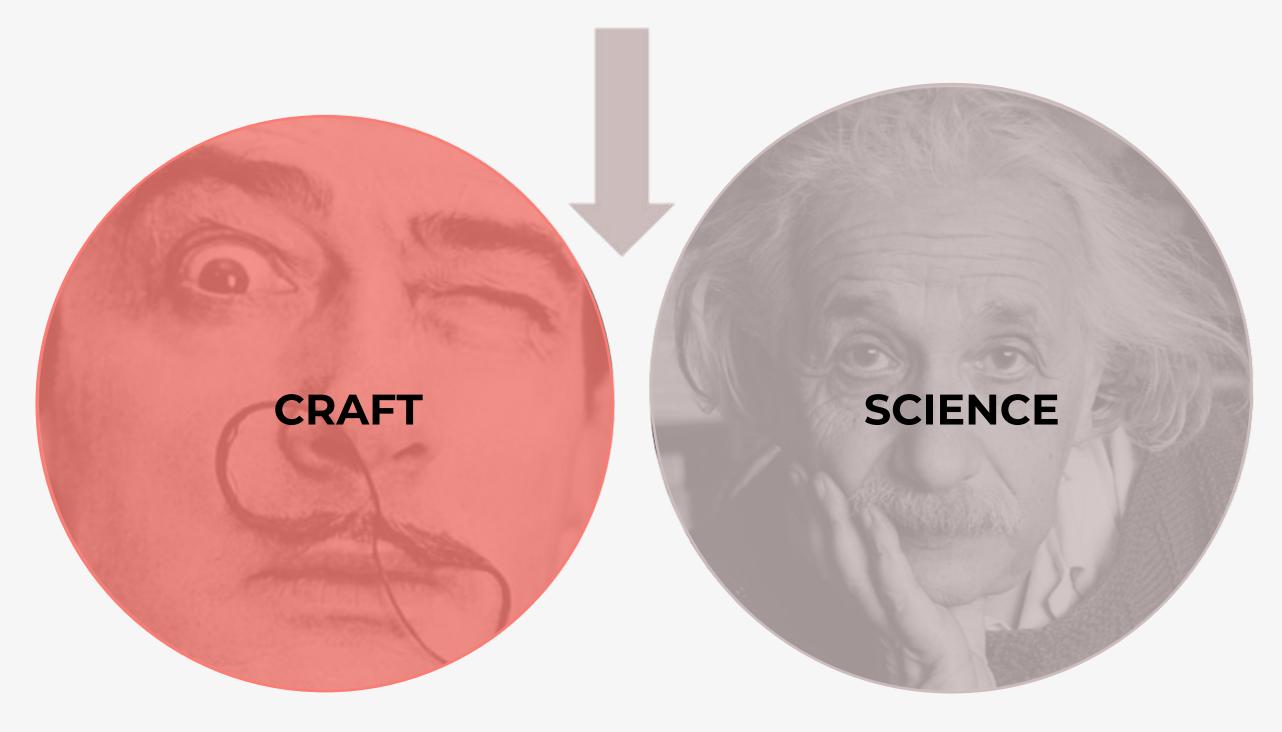




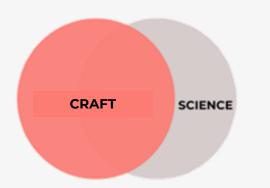




Picture Yourself Somewhere Here



JOURNALISM





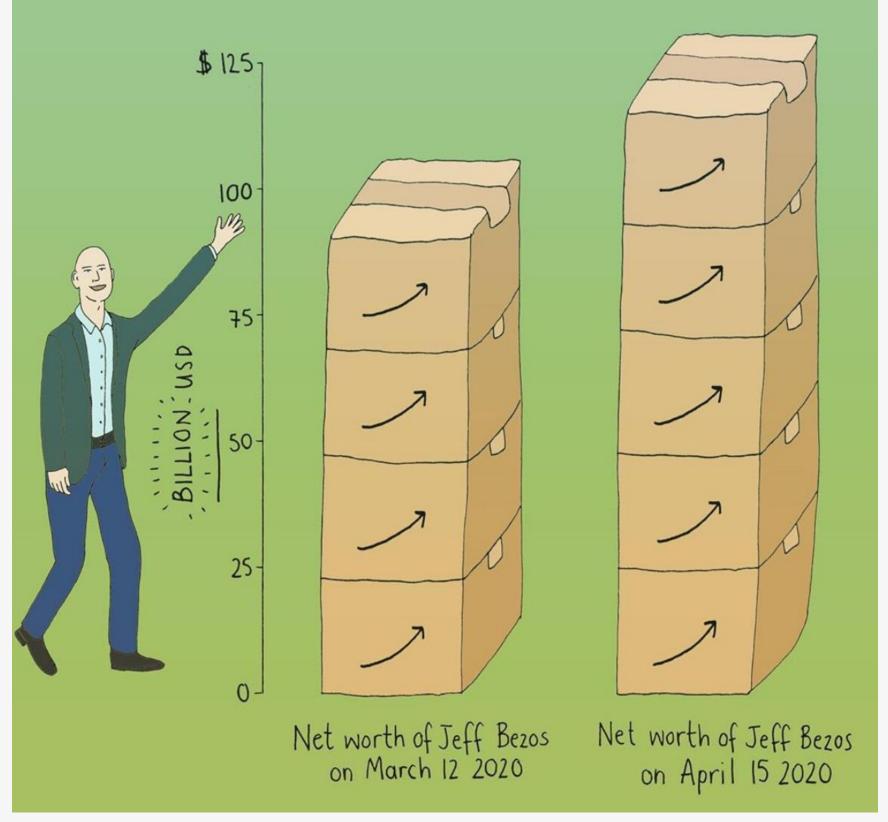
BUSINESS DASHBOARDS (EXPLORATORY)



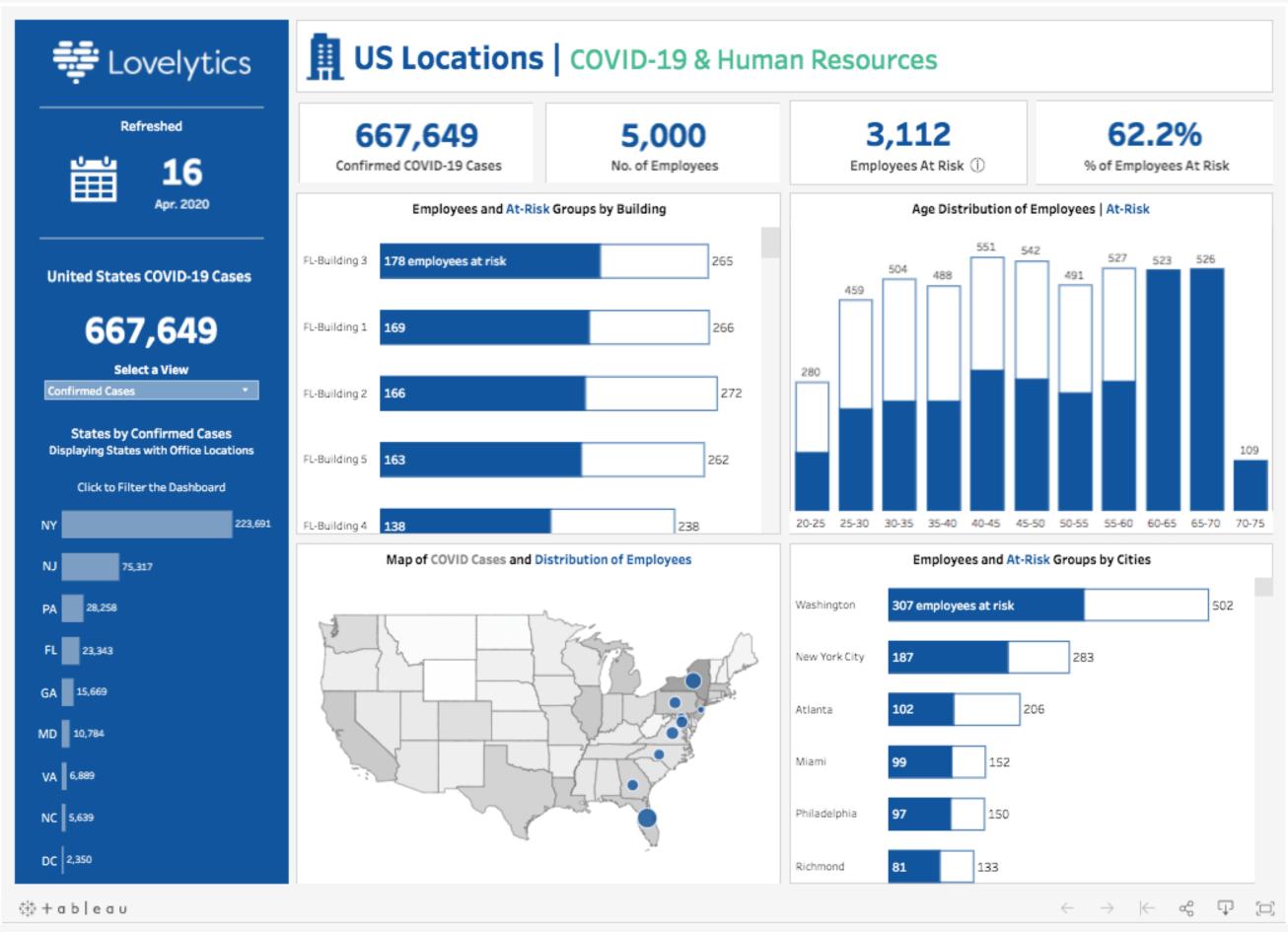
BUSINESS DATA VISUALIZATION (EXPLANATORY)







Author: Mona Chalabi

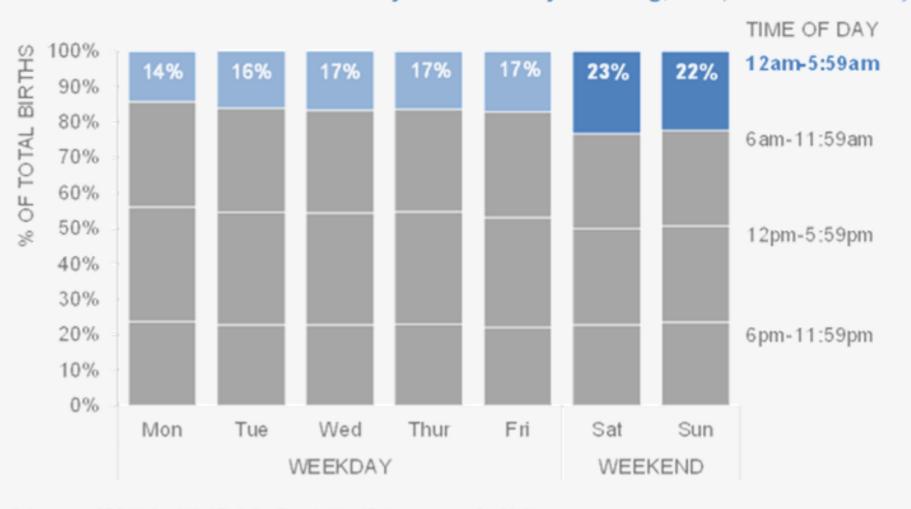


Source: Lovelytics

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When babies are born

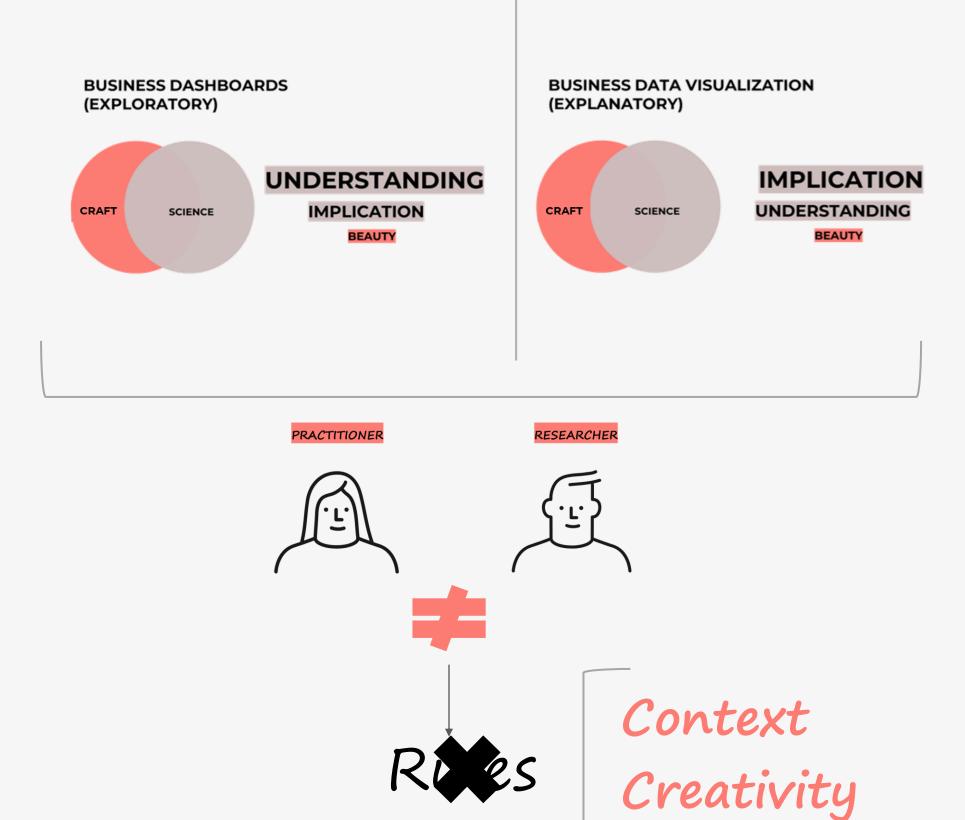
Weekend deliveries are more likely to be in early morning, compared to weekdays



Data source: CDC (National Vital Statistics Reports, Vol. 67, No. 1, January 31, 2018)

Source: www.storytellingwithdata.com

Rules in Data Visualization







Iconic memory

Working memory

Long-term memory

PREATTENTIVE PROCESSING

- Very FastAttributes can be used to capture attention



Iconic memory

Working memory

ATTENTIVE PROCESSING

- TemporaryLimited capacity (3-4 chunks of info)

Long-term memory

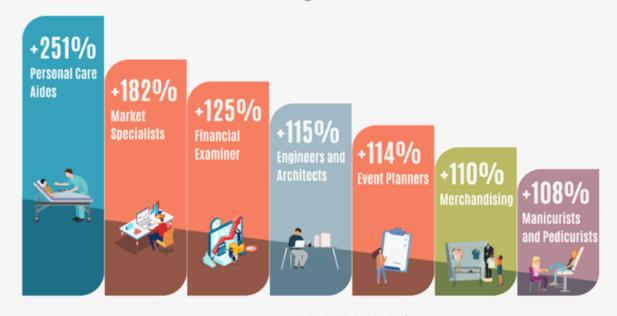


BEFORE

Personal Care Aide Jobs Almost Triple in a Decade

The graph below shows the seven jobs that experienced growth of over 100% in the last 10 years.

Fastest Growing Jobs in the US



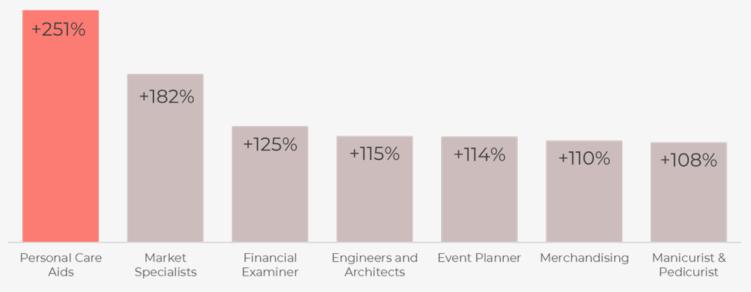
Brought to you by COMMERCIAL Cafe

Personal Care Aide jobs rose 251% in the last 10 years, reaching over 2.2 million jobs. As the US population ages and the Baby Boomer generation retires, more jobs in healthcare will continue to be needed.

AFTER

Personal Care Aide Jobs Almost Tripled in the Last Decade

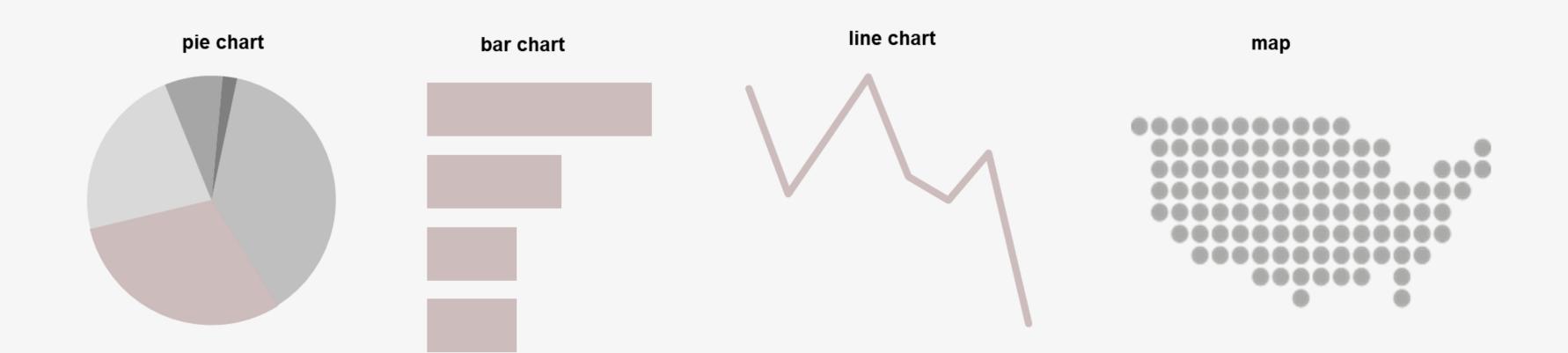
Top seven jobs that experiences growth over 100% in the last 10 years



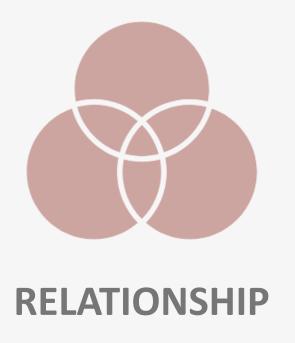
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Personal Care Aide jobs rose 251% in the last 10 years, reaching over 2.2 million jobs. As the US population ages and the Baby Boomer generation retires, more jobs in healthcare will continue to be needed.

LONG-TERM MEMORY





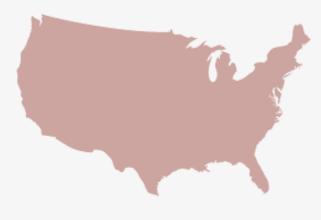












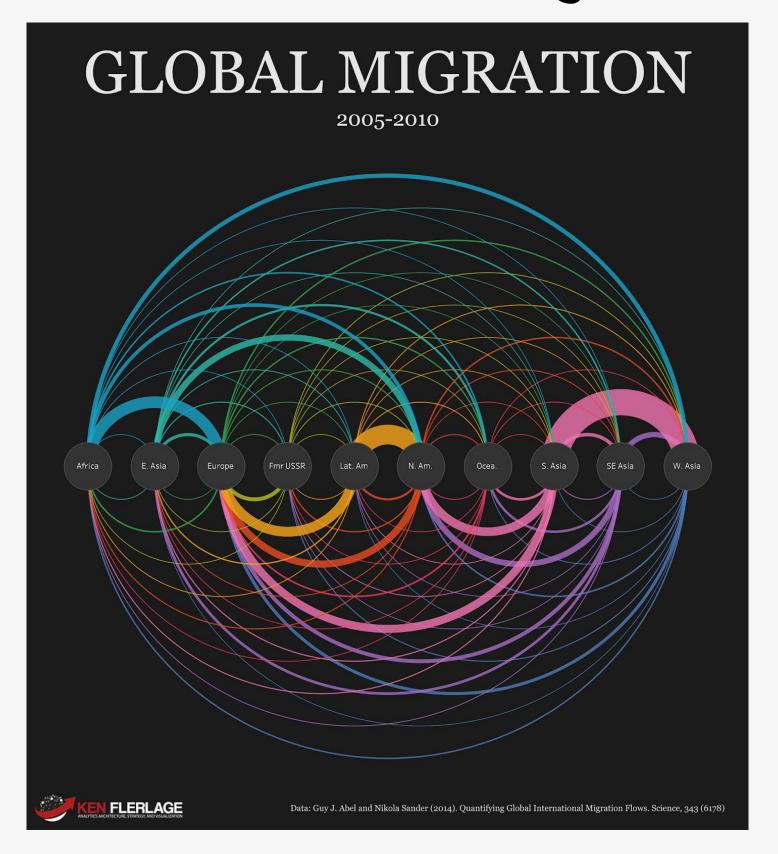
TIME

PART-TO-WHOLE

GEOSPATIAL

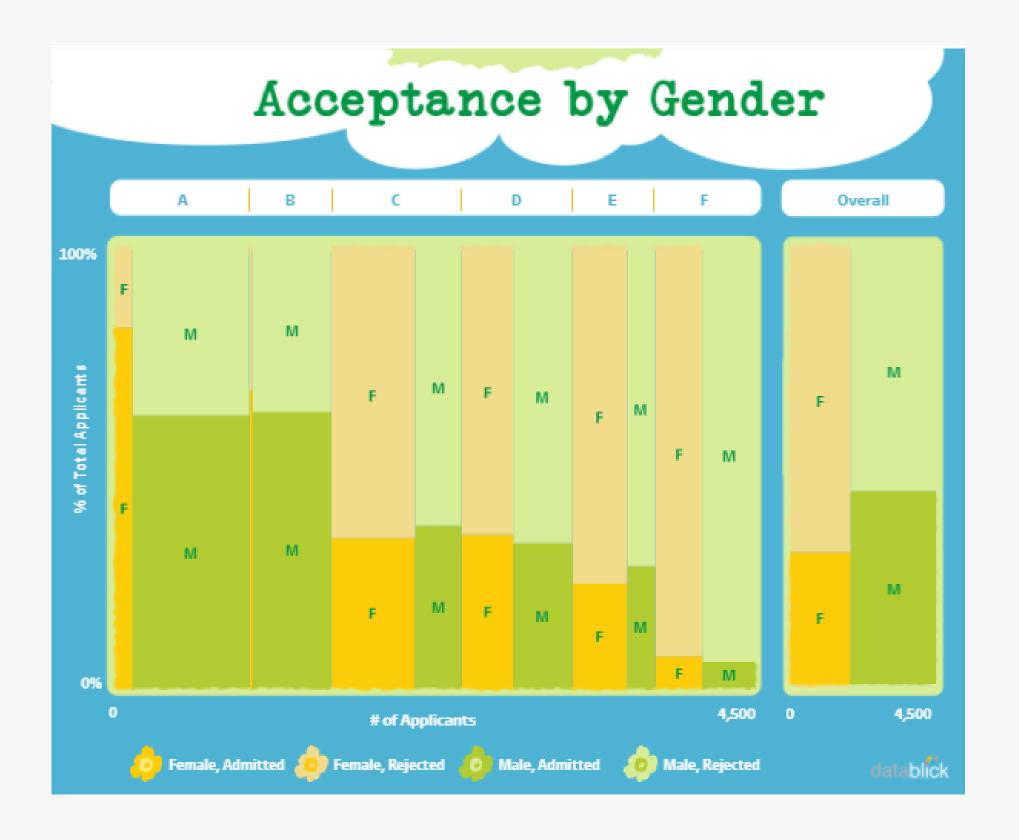


Arc Sankey





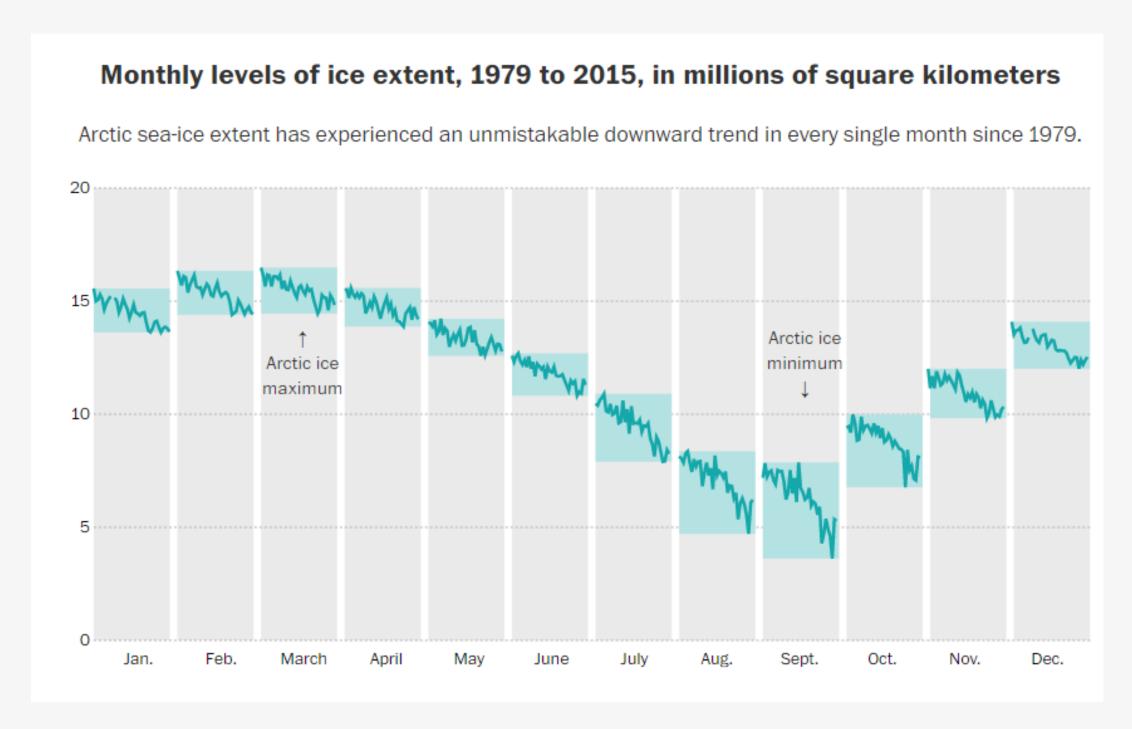
Marimekko







Cycle Graph

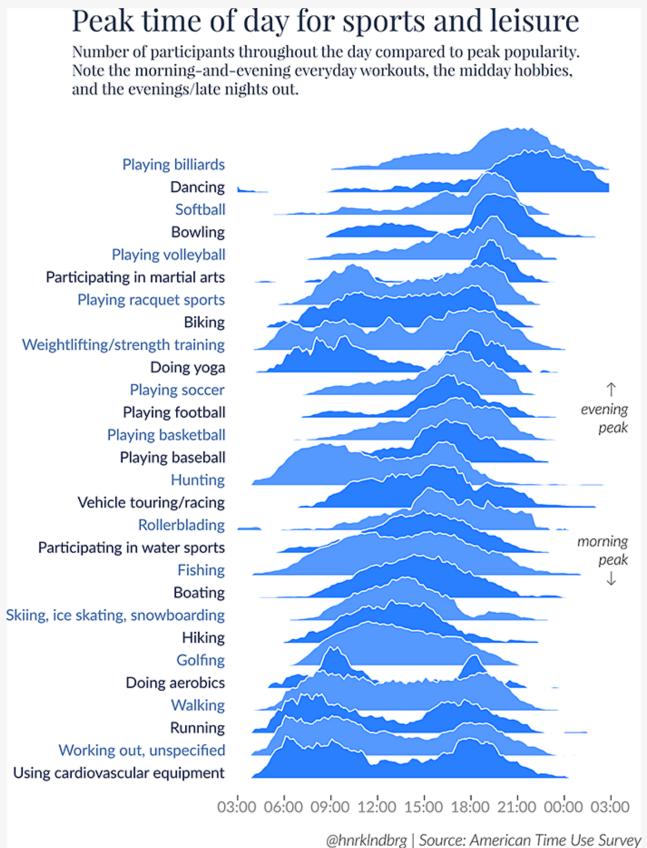


Source: https://www.washingtonpost.com/graphics/national/arctic-ice-2015/





Joy (Ridgeline) Plot

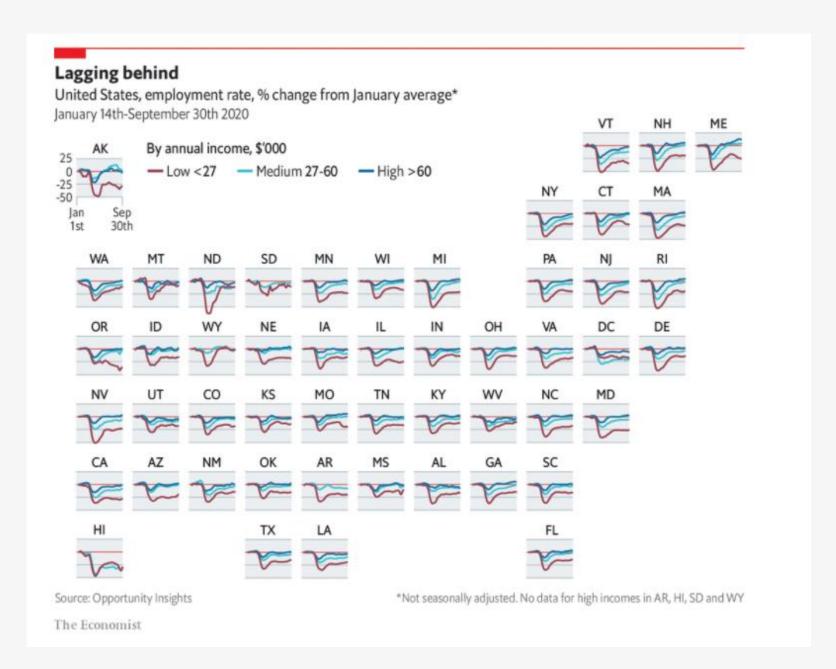


Source: https://eagereyes.org/blog/2017/joy-plots

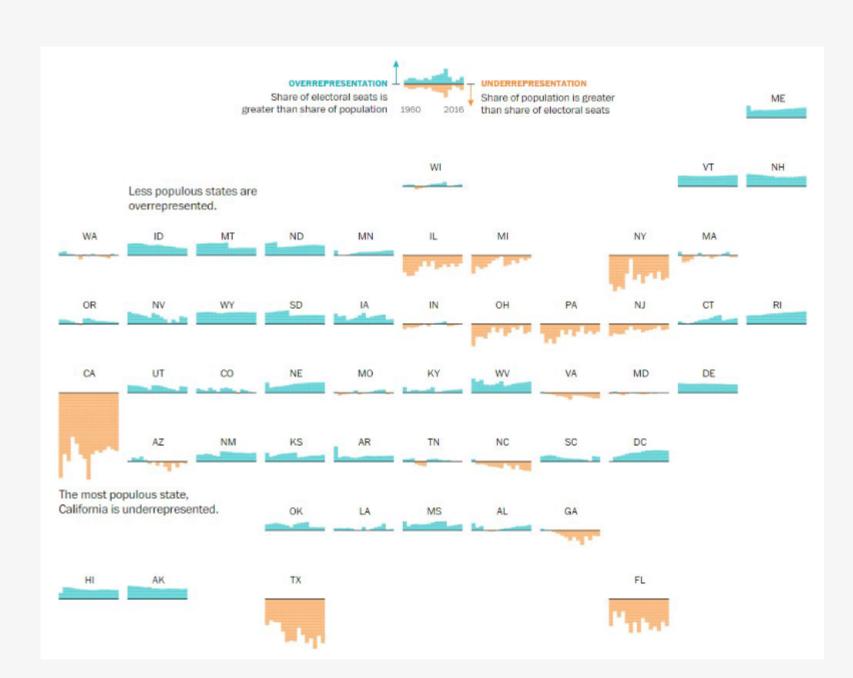




Tile Grid Map



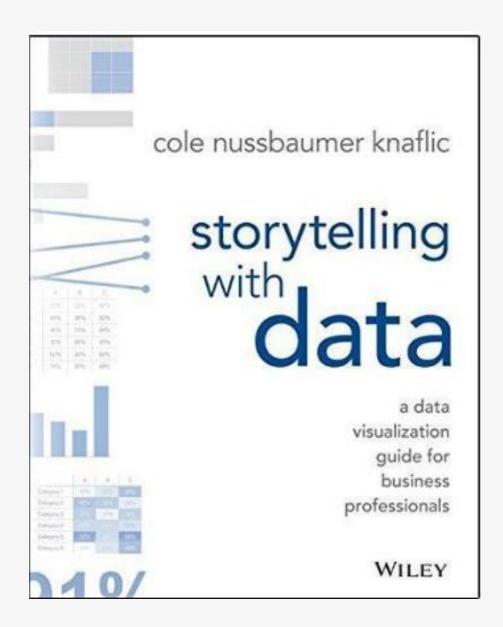
Source: https://www.economist.com/qraphic-detail/2020/12/01/the-recovery-of-low-wage-jobs-in-america-from-covid-19-has-halted

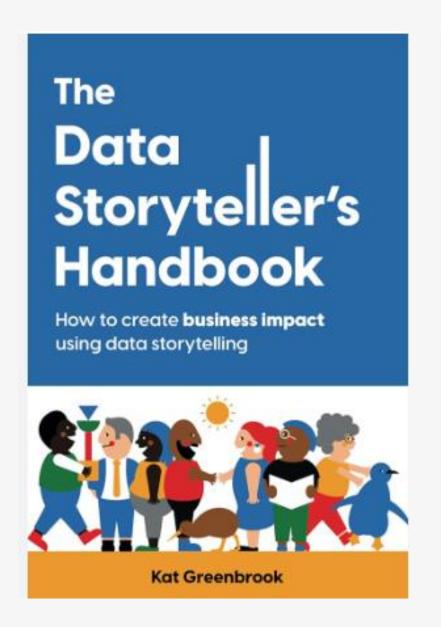


Source: https://www.washingtonpost.com/graphics/politics/how-fair-is-the-electoral-college/

Additional resources

Books







Podcasts

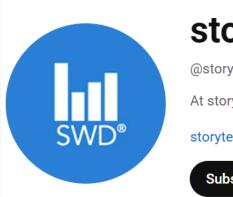
storytelling Mildata®



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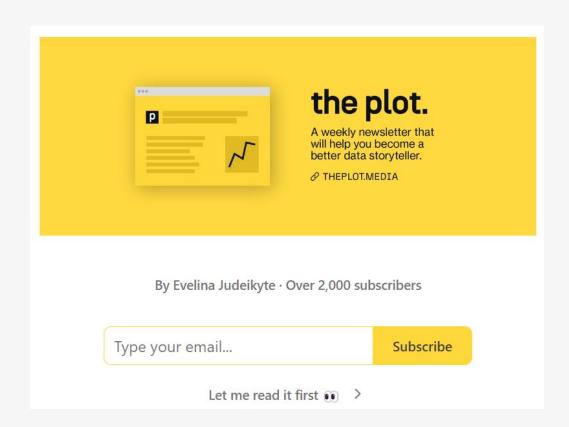


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Newsletters

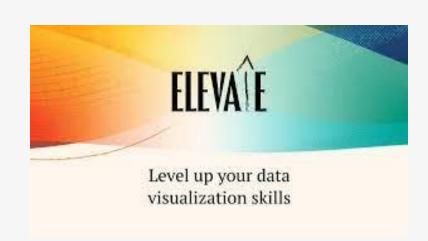


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Communities





Final tips