EQUALS EU

IDENTIFYING THE GENDER GAP THROUGH DATA VISUALIZATION

VALÈNCIA

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EQUALS EU

IDENTIFYING THE GENDER GAP THROUGH DATA VISUALIZATION

Cristina Portalés & Laya Targa

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IDENTIFYING THE GENDER GAP THROUGH DATA VISUALIZATION

1. SCHEDULE
2. ONLINE QUESTIONNAIRE – PRE
3. INTRODUCTION TO DATA VISUALIZATION (GRAPHS AND MAPS)
4. EXAMPLES OF VISUALIZING THE GENDER GAP
5. THE EU GENDER EQUALITY INDEX
6. WORKSHOP: EXPLORE THE EU GENDER EQUALITY INDEX DATA AND PROPOSE SOME VISUALIZATIONS
7. WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN'
8. RESULTS AND DISCUSSION
9. ONLINE QUESTIONNAIRE – POST

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SCHEDULE

13:30 – 15:00

- Online questionnaire – pre
- Introduction to data visualization (graphs and maps)
- Examples of visualizing the gender gap
- The EU gender equality index

15:15 – 16:45

- Workshop: Explore the EU gender equality index data and propose some visualizations
- Workshop: A thematic map on 'Nobel Prize Awarded Women'
- Results and discussion
- Online questionnaire – post

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INTRODUCTION TO DATA VISUALIZATION: GRAPHS & MAPS

The following examples have been extracted from:

Claus O. Wilke. Fundamentals of Data Visualization,

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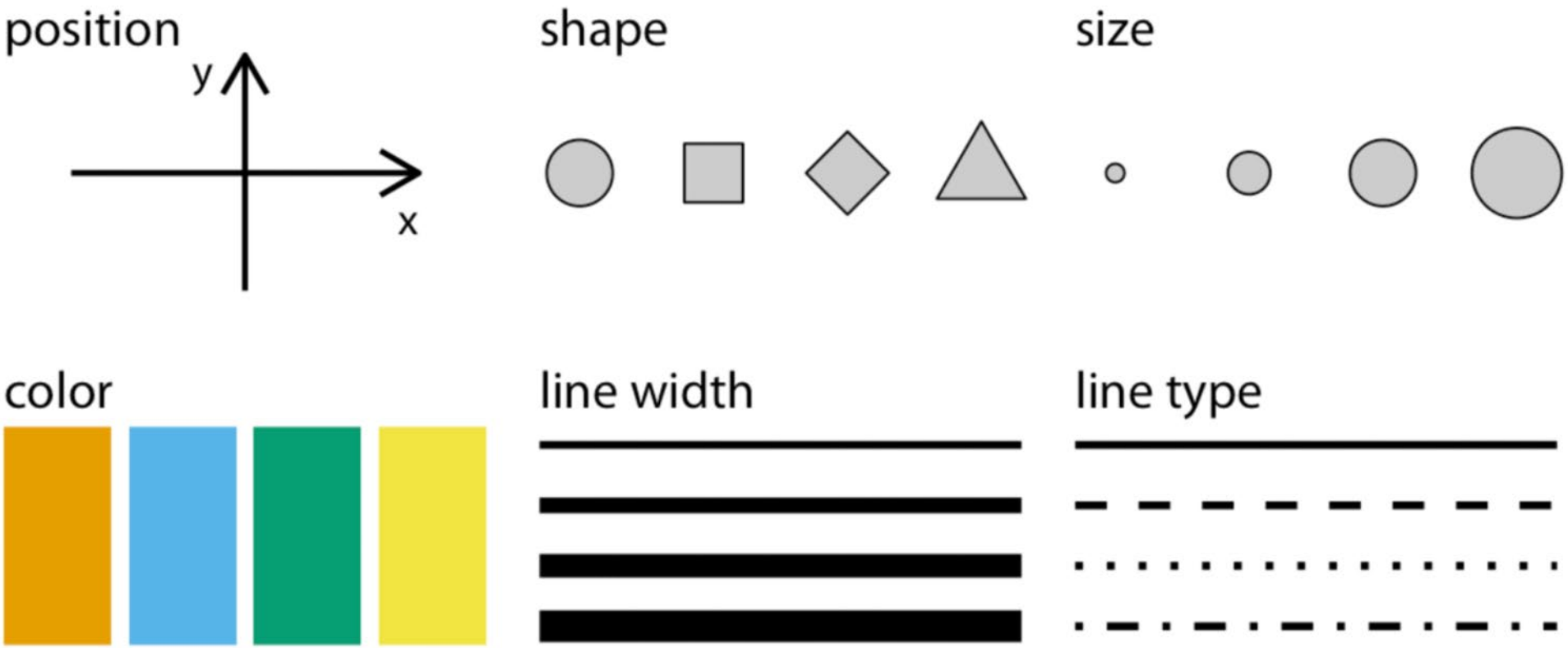
VISUALIZING DATA: MAPPING DATA ONTO AESTHETICS



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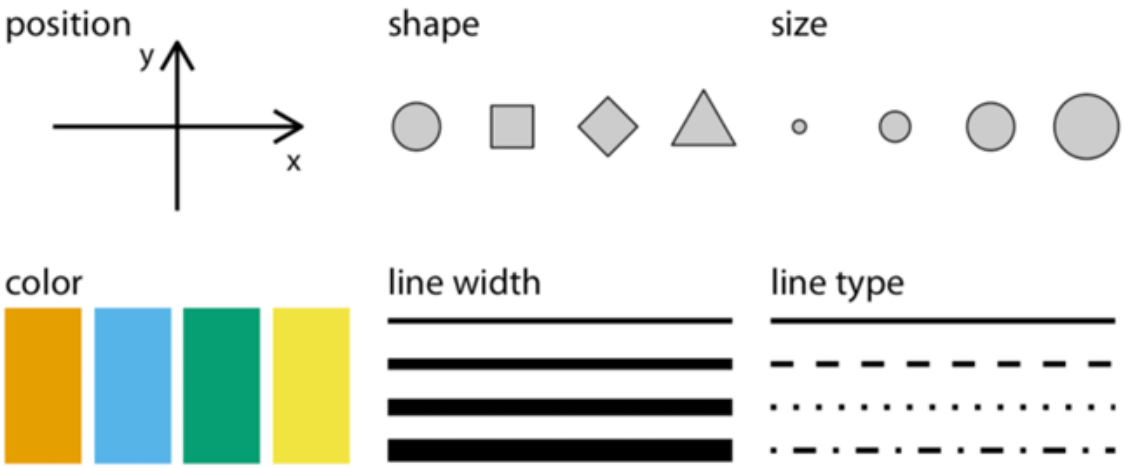

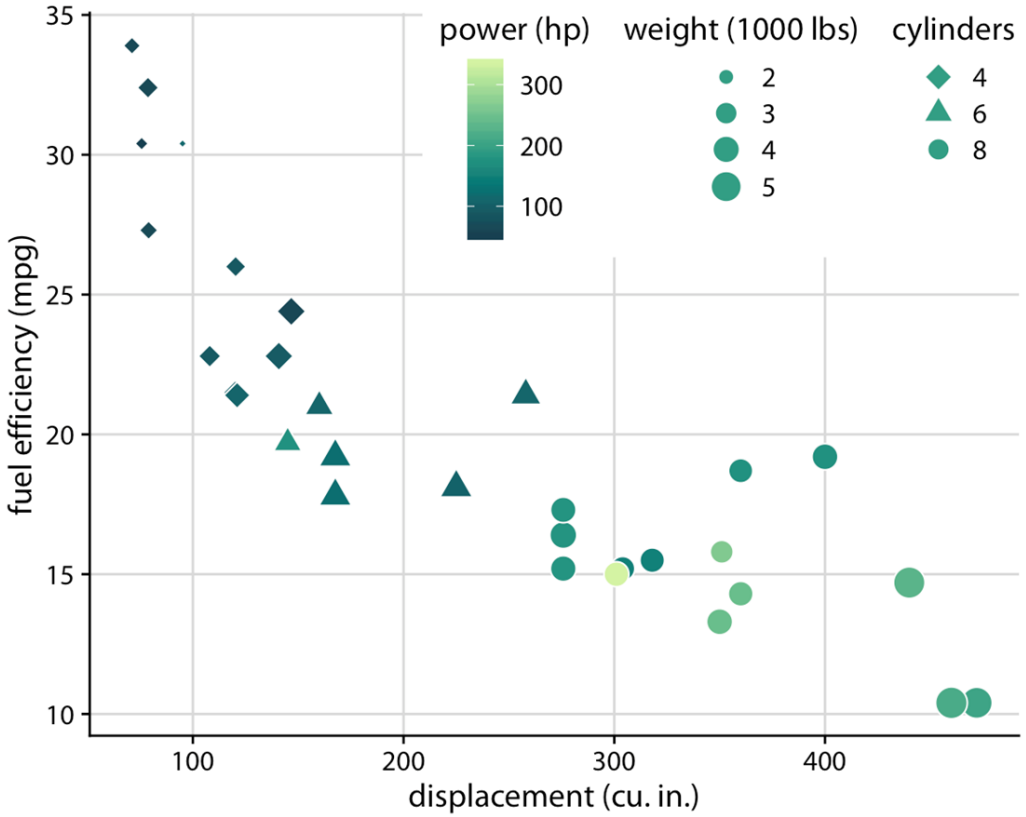

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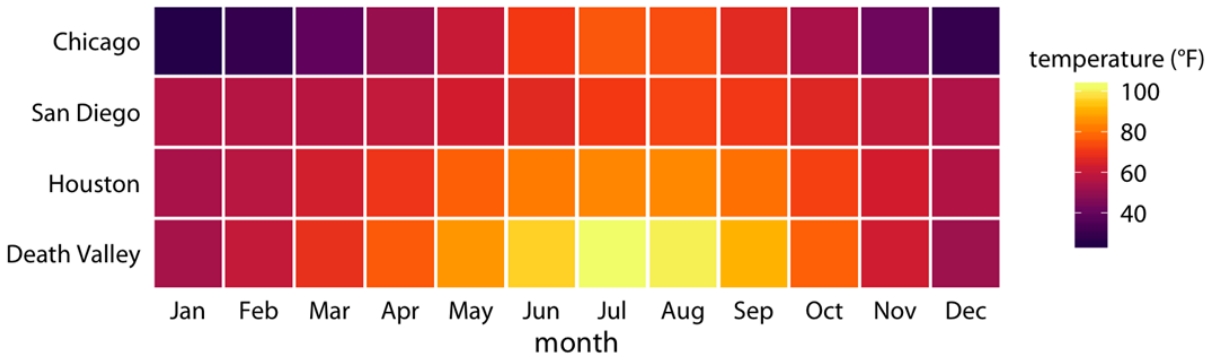

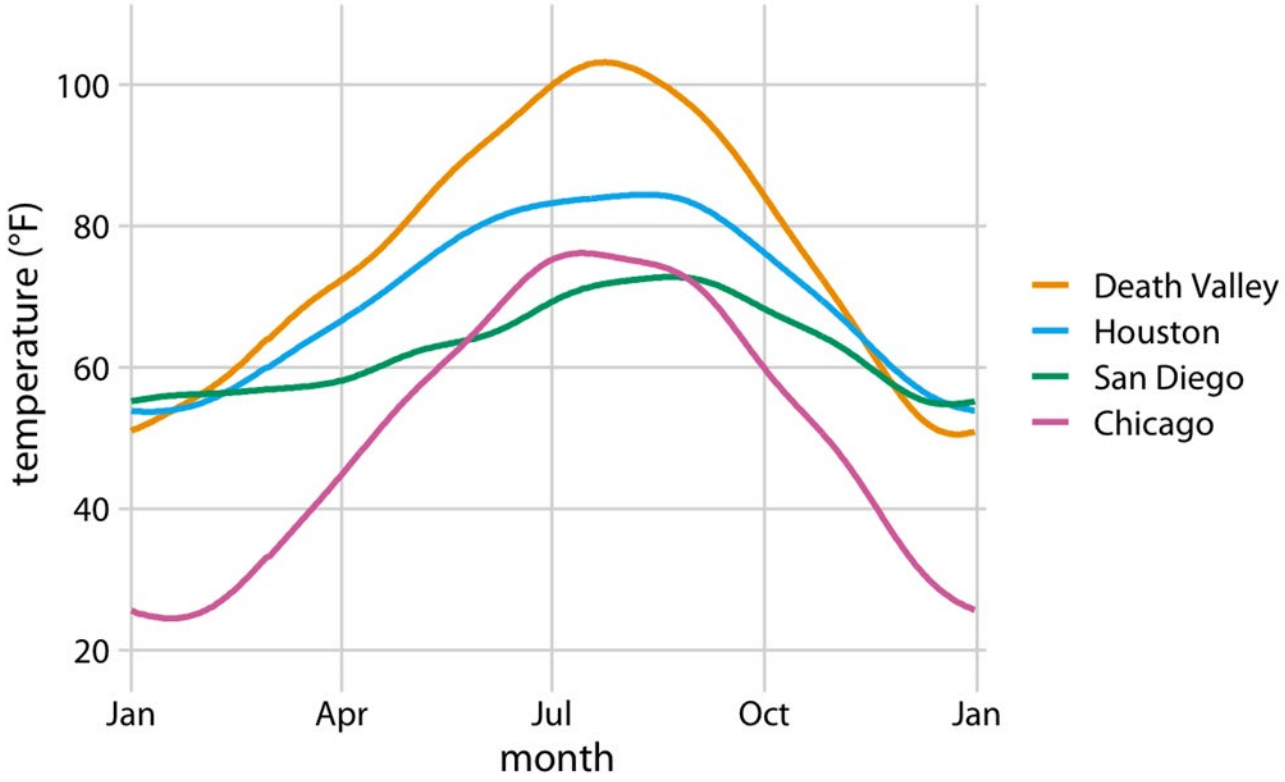

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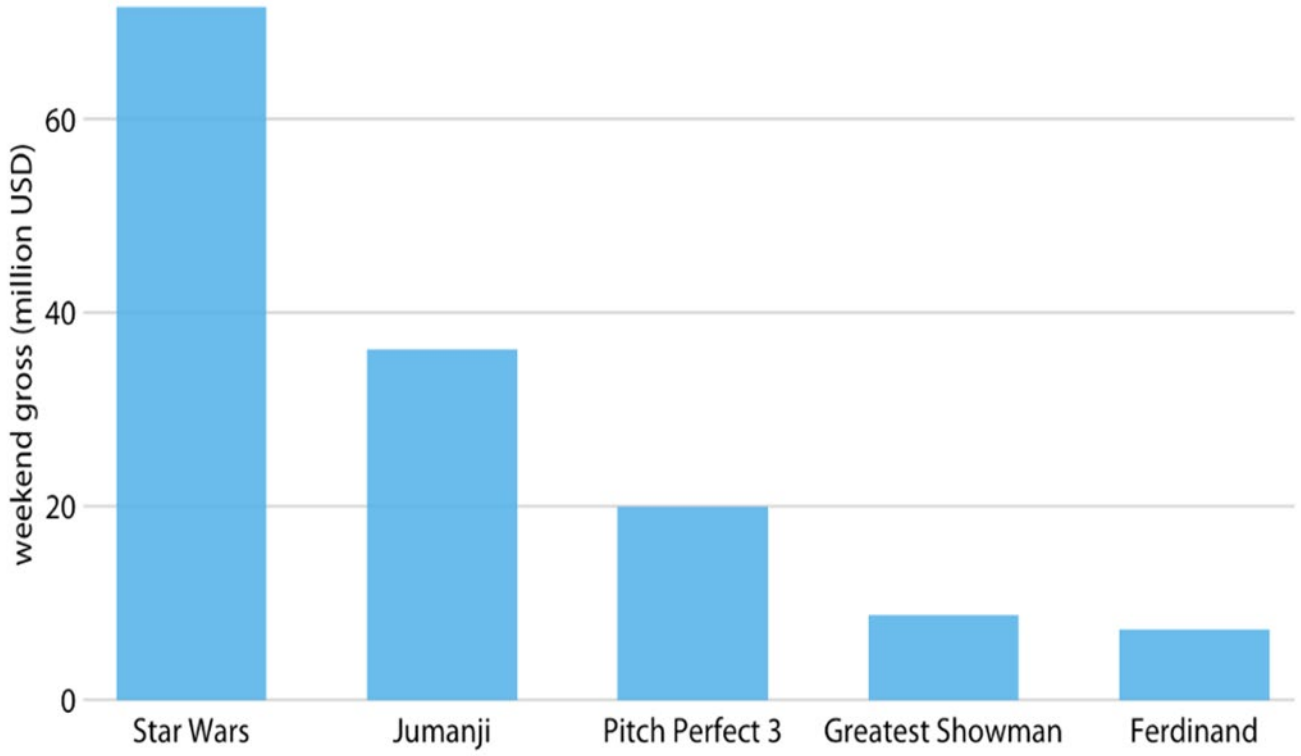
INTRODUCTION TO DATA VISUALIZATION: GRAPHS & MAPS

VISUALIZING AMOUNTS

Rank	Title	Weekend gross
1	Star Wars: The Last Jedi	$71,565,498
2	Jumanji: Welcome to the Jungle	$36,169,328
3	Pitch Perfect 3	$19,928,525
4	The Greatest Showman	$8,805,843
5	Ferdinand	$7,316,746



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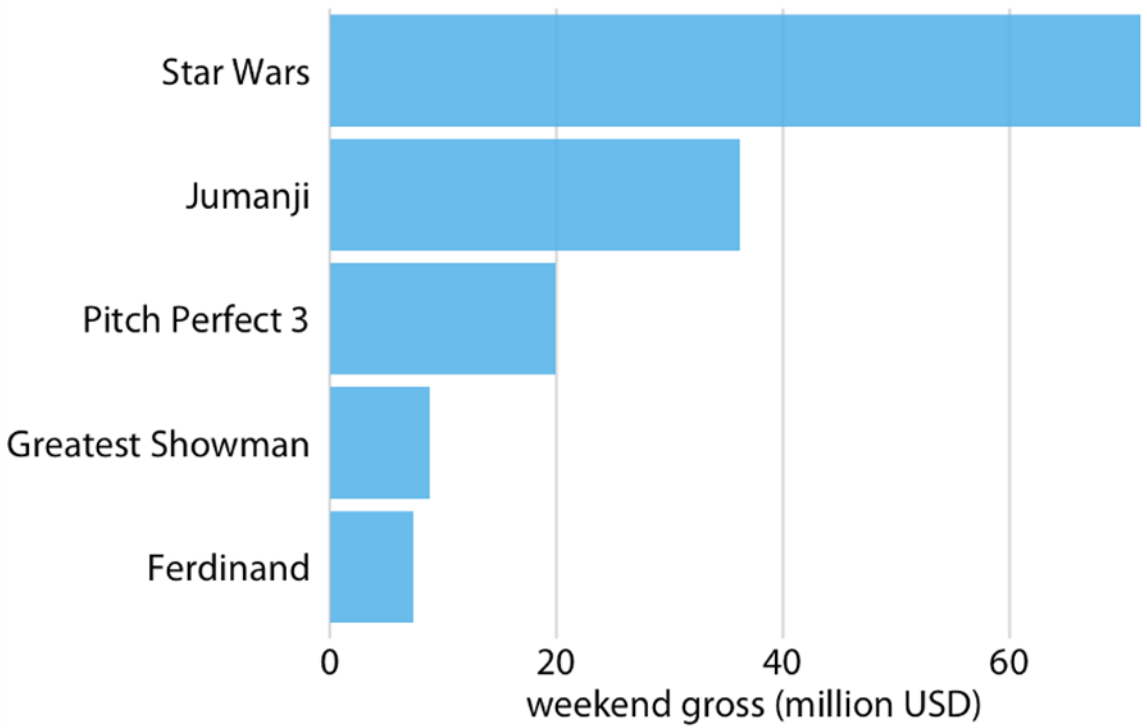

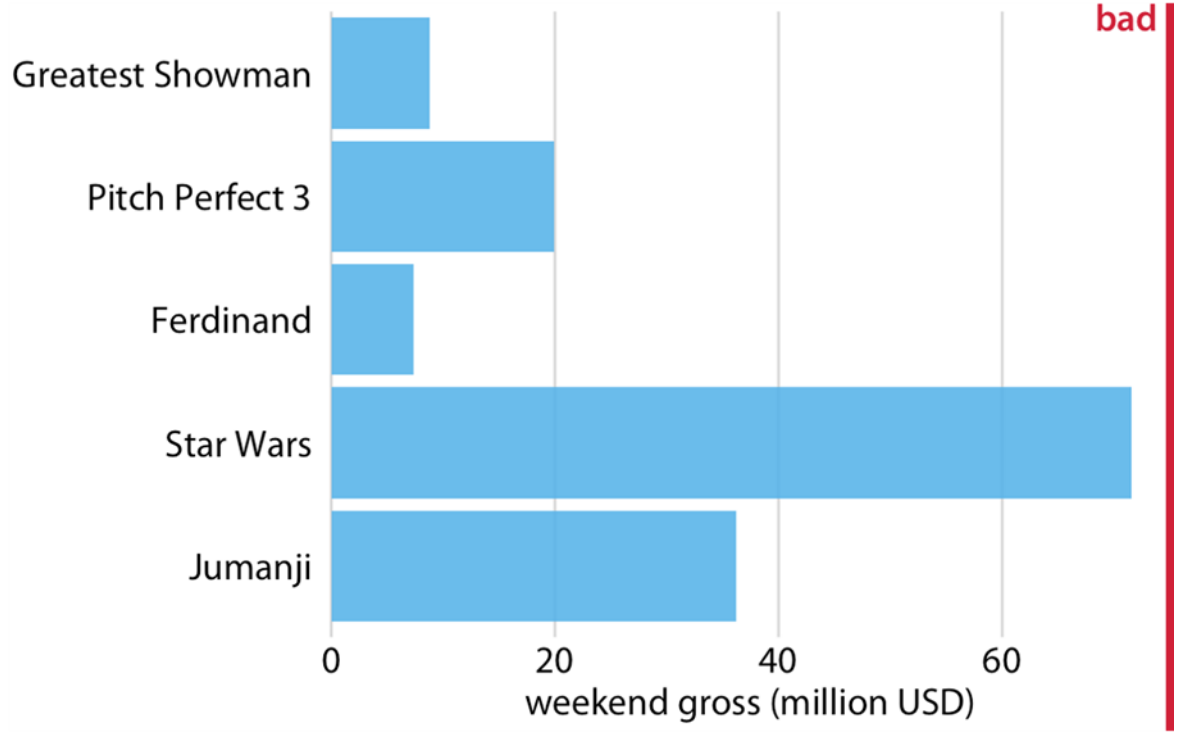

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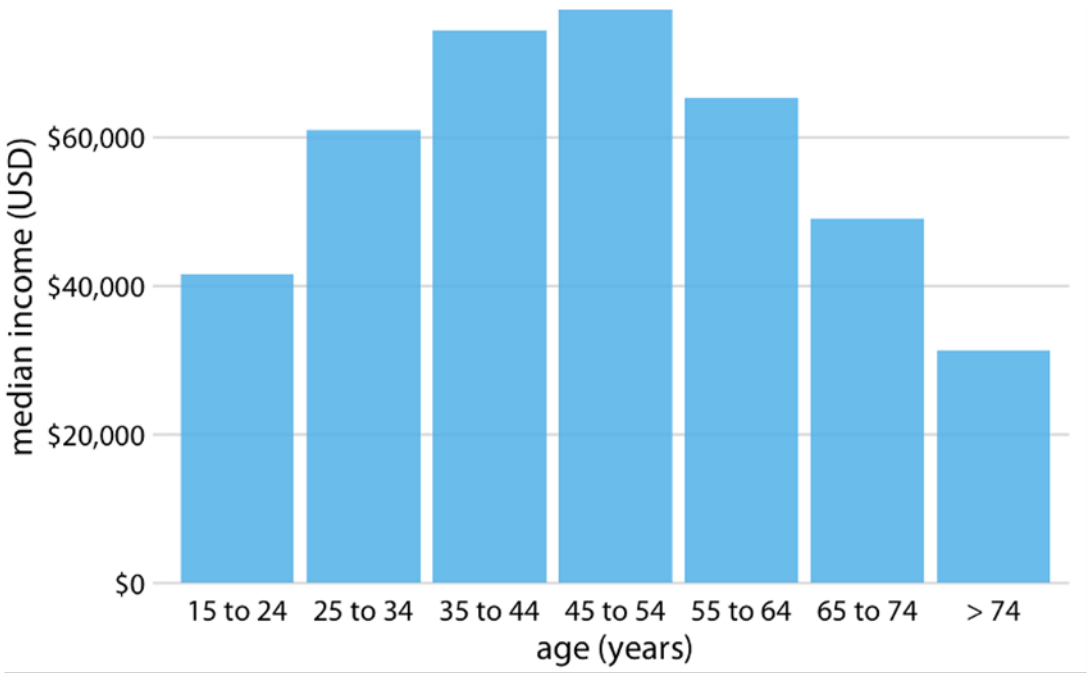

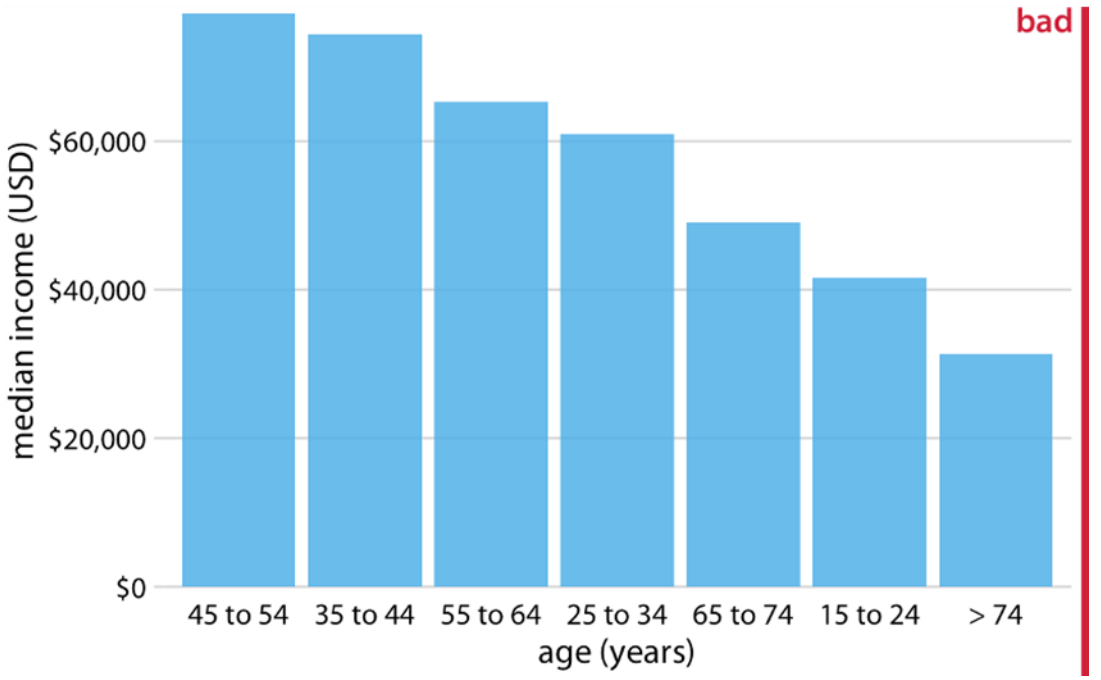

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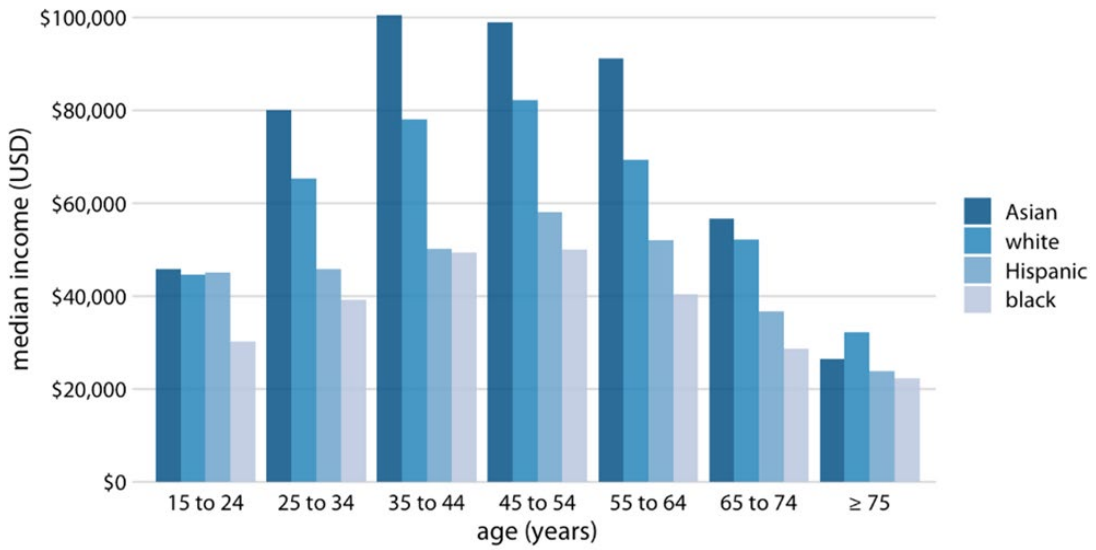

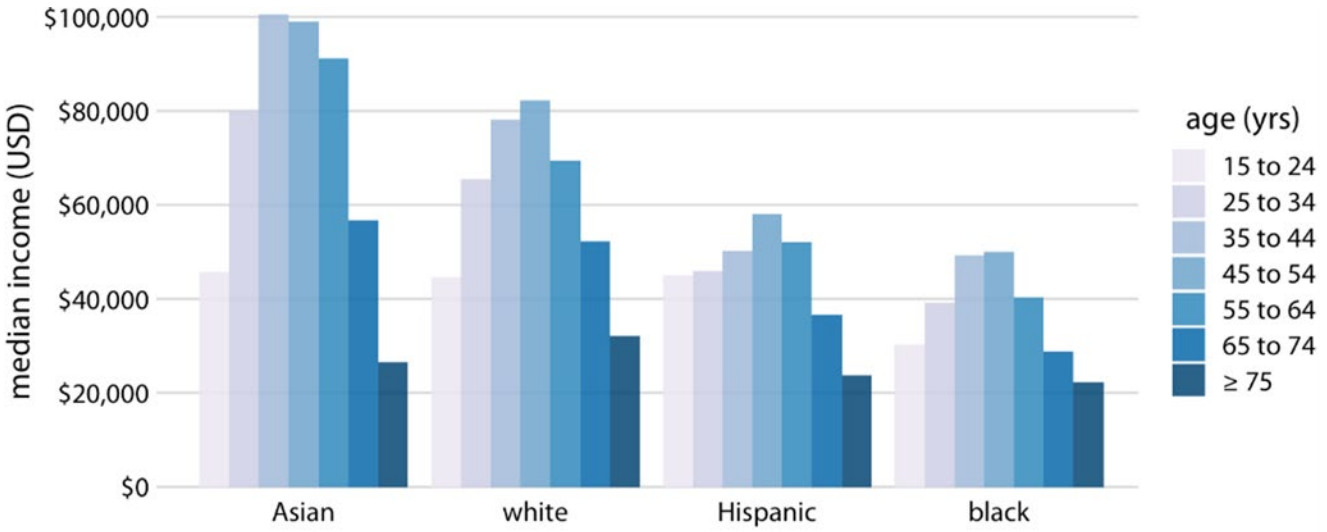

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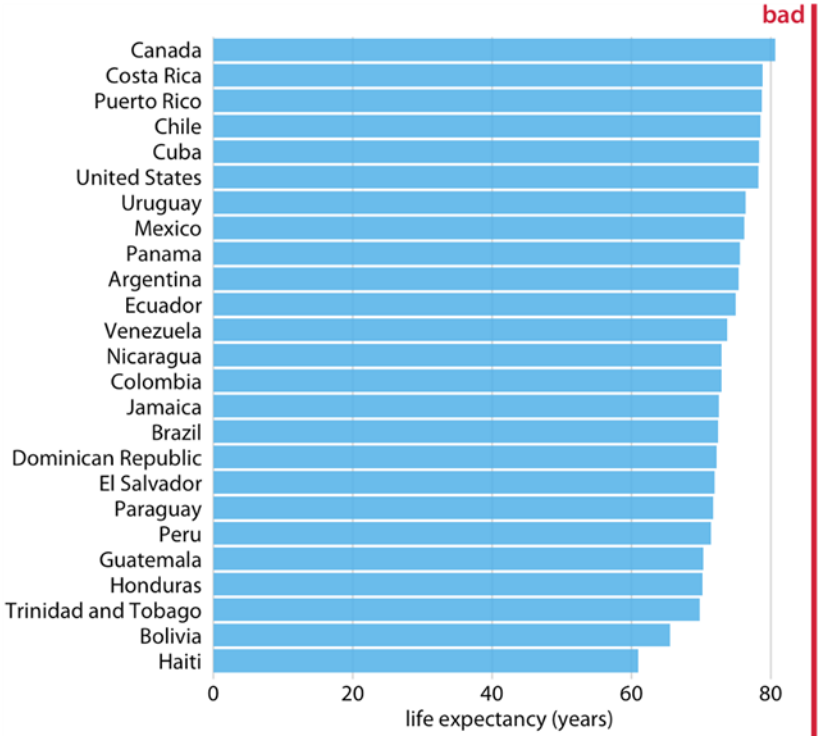

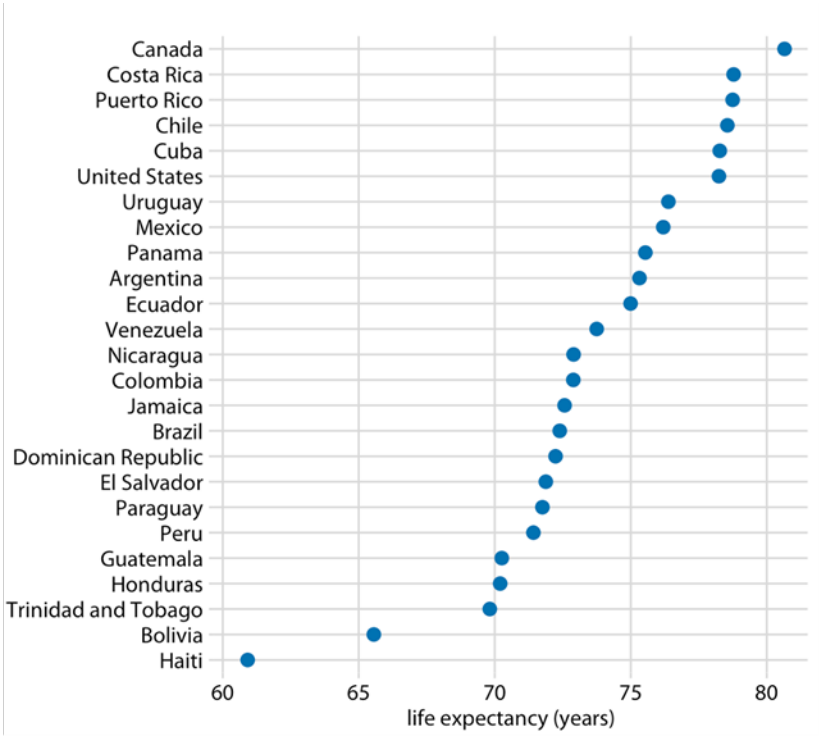

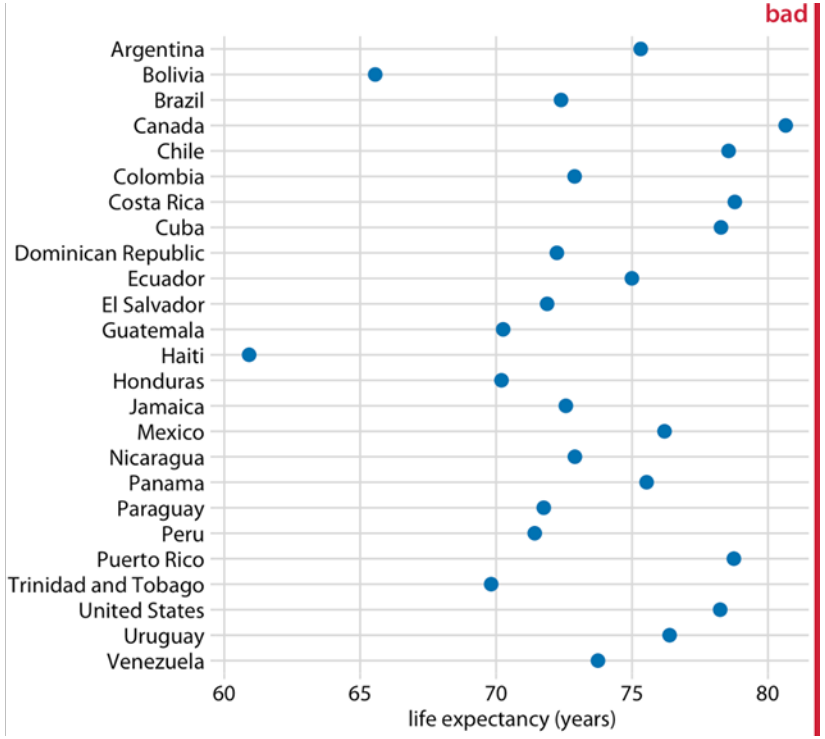

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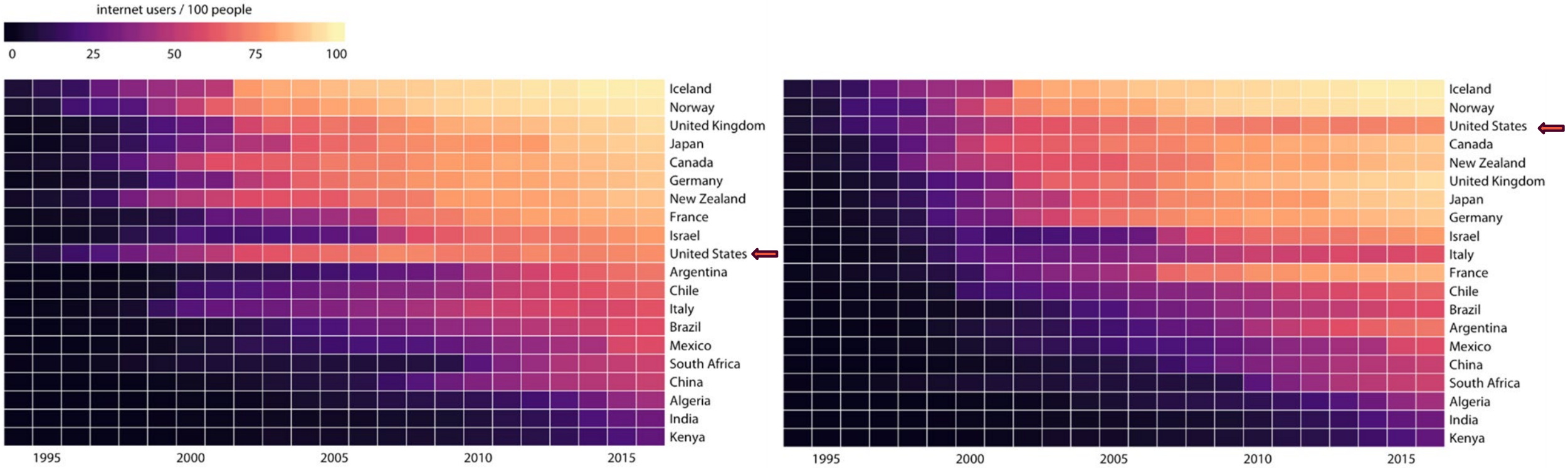

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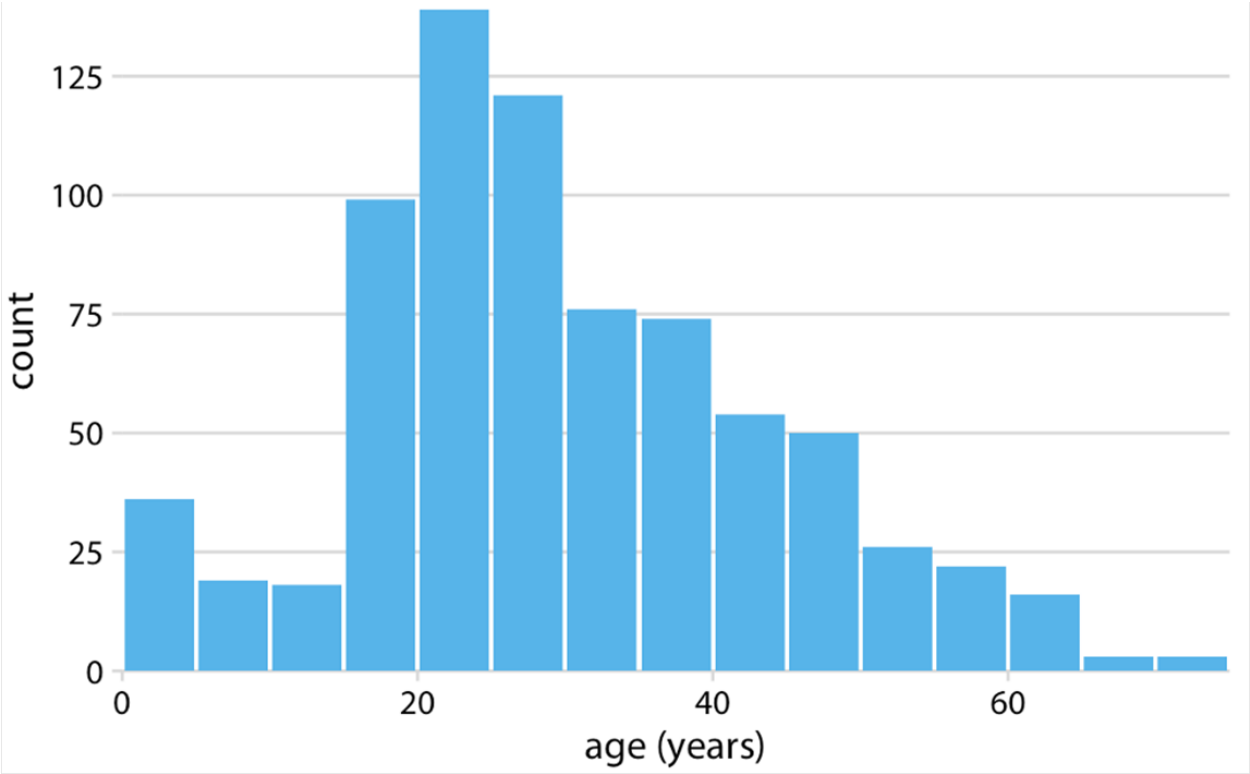

Age range	Count
0–5	36
6–10	19
11–15	18
16–20	99
21–25	139
26–30	121
31–35	76
36–40	74
41–45	54
46–50	50
51–55	26
56–60	22
61–65	16
66–70	3
71–75	3

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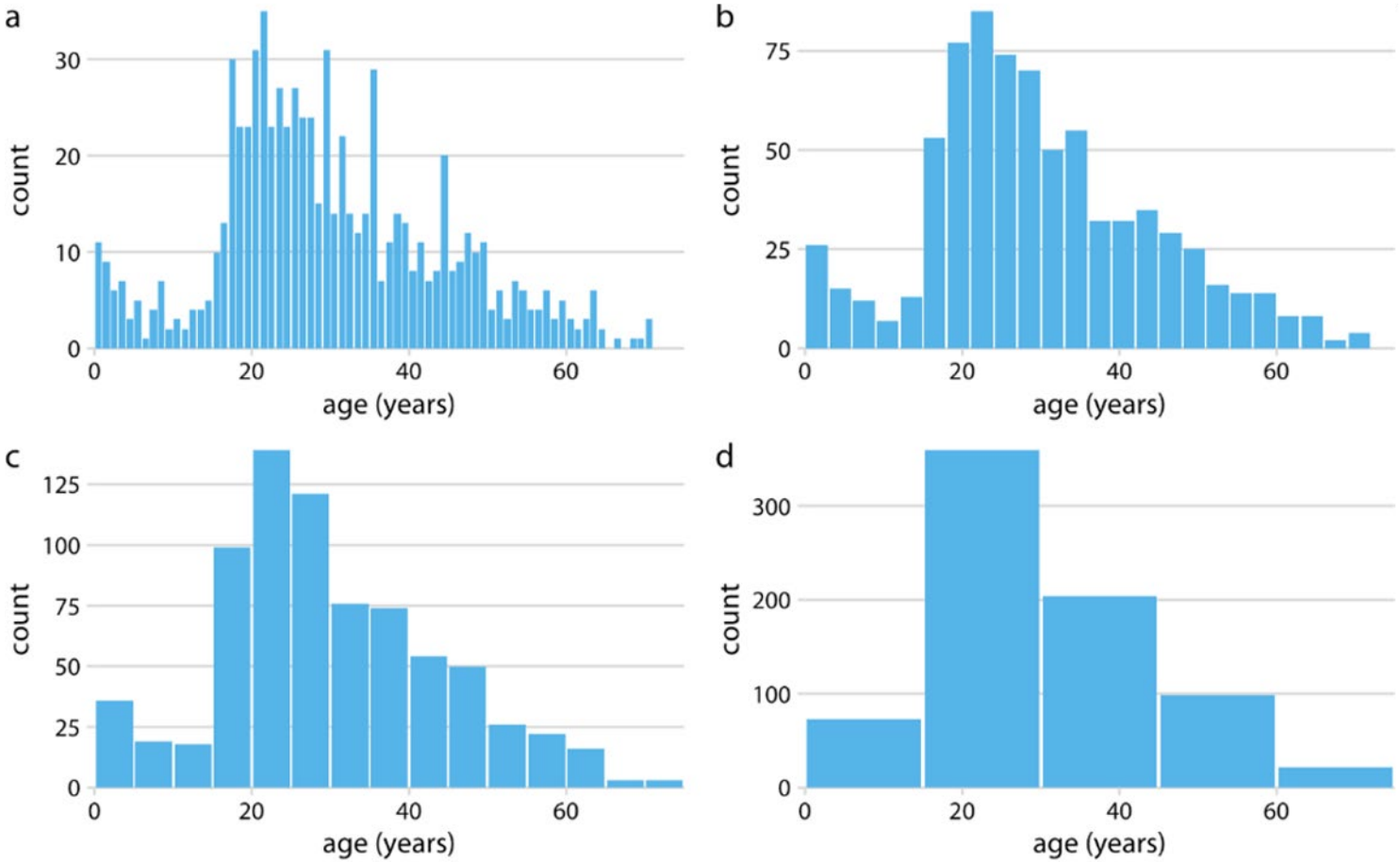

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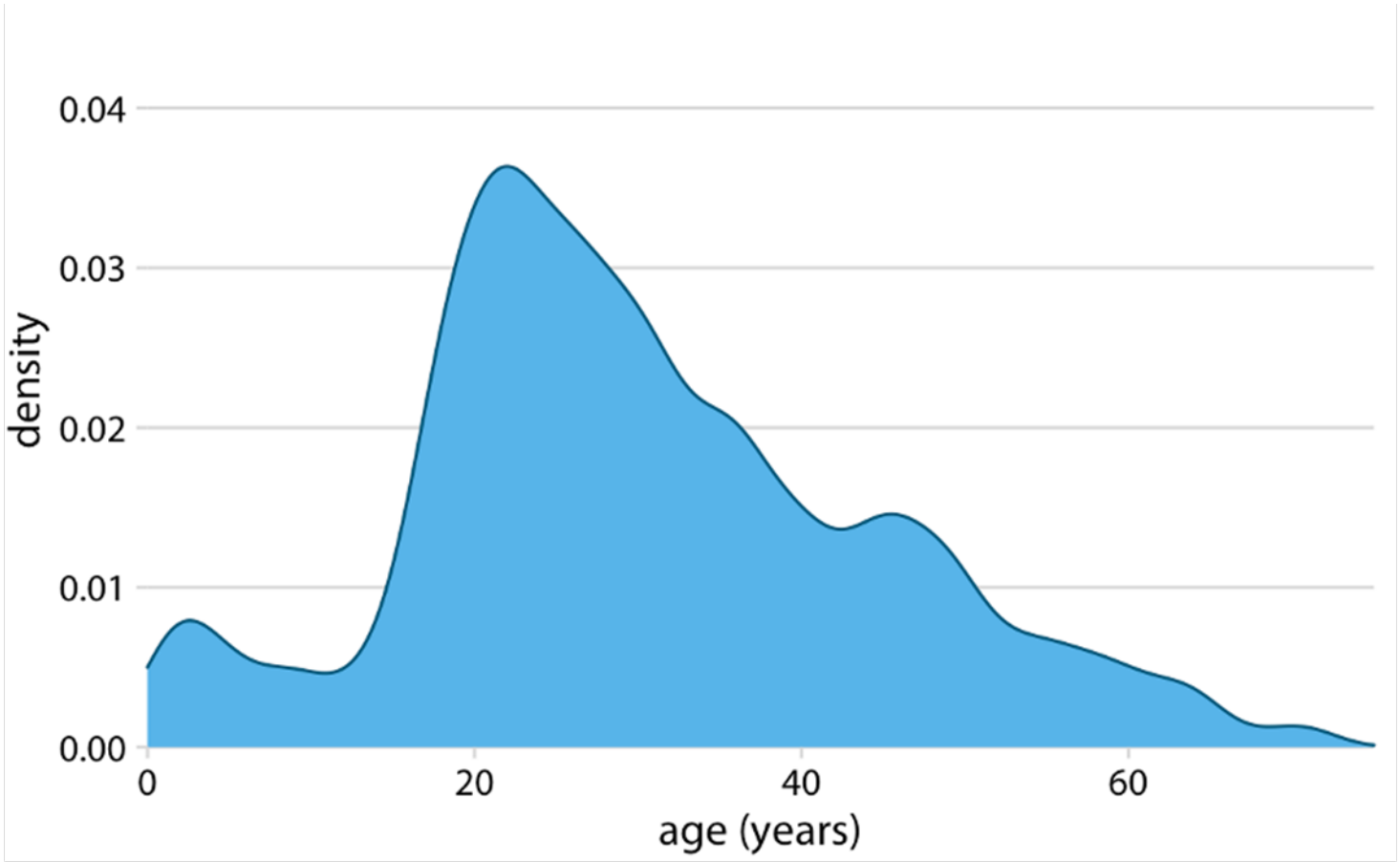

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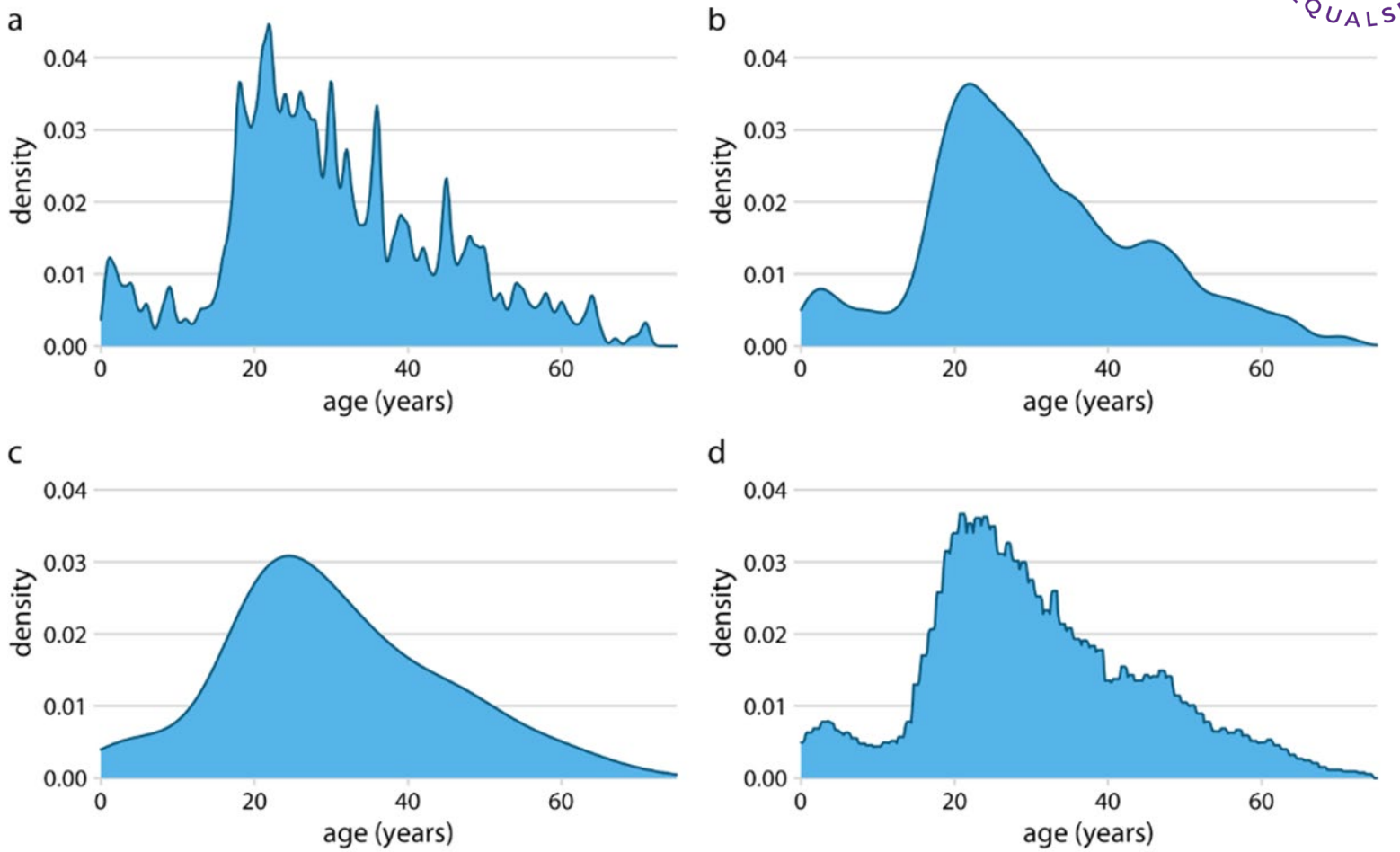

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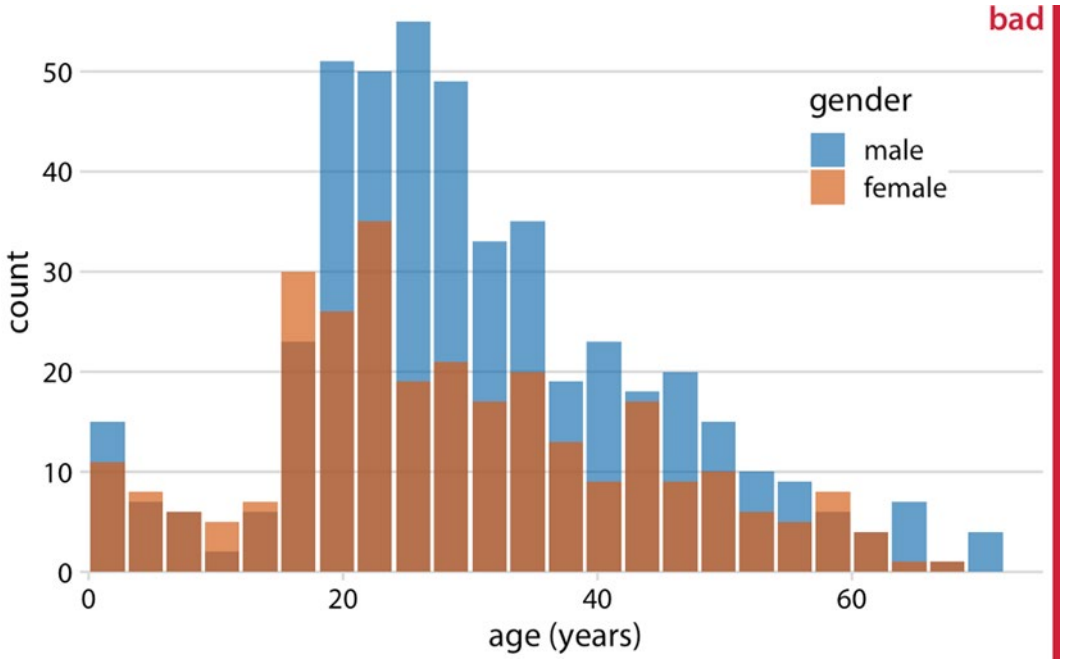

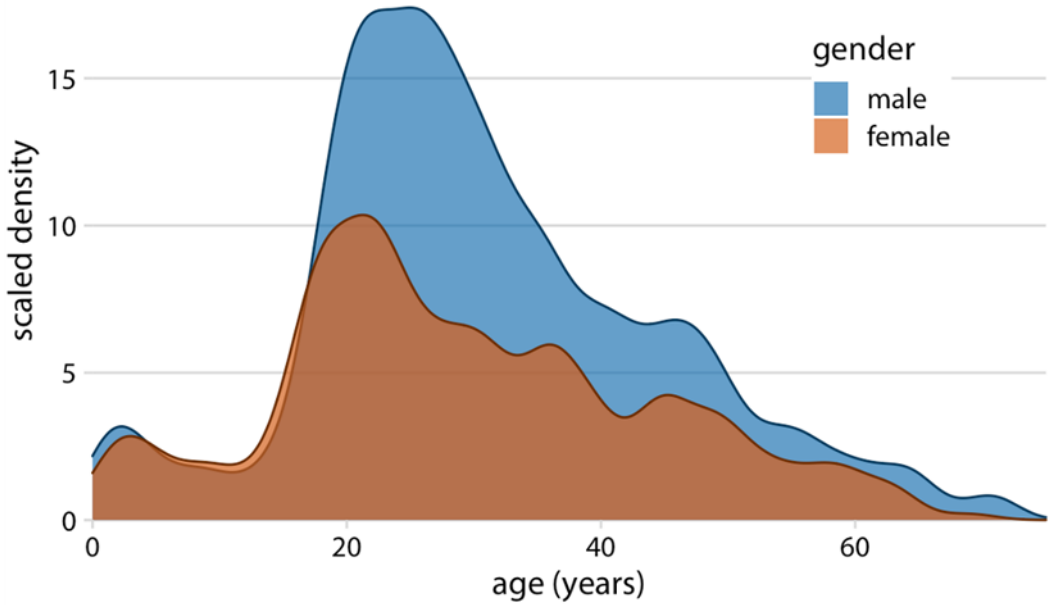

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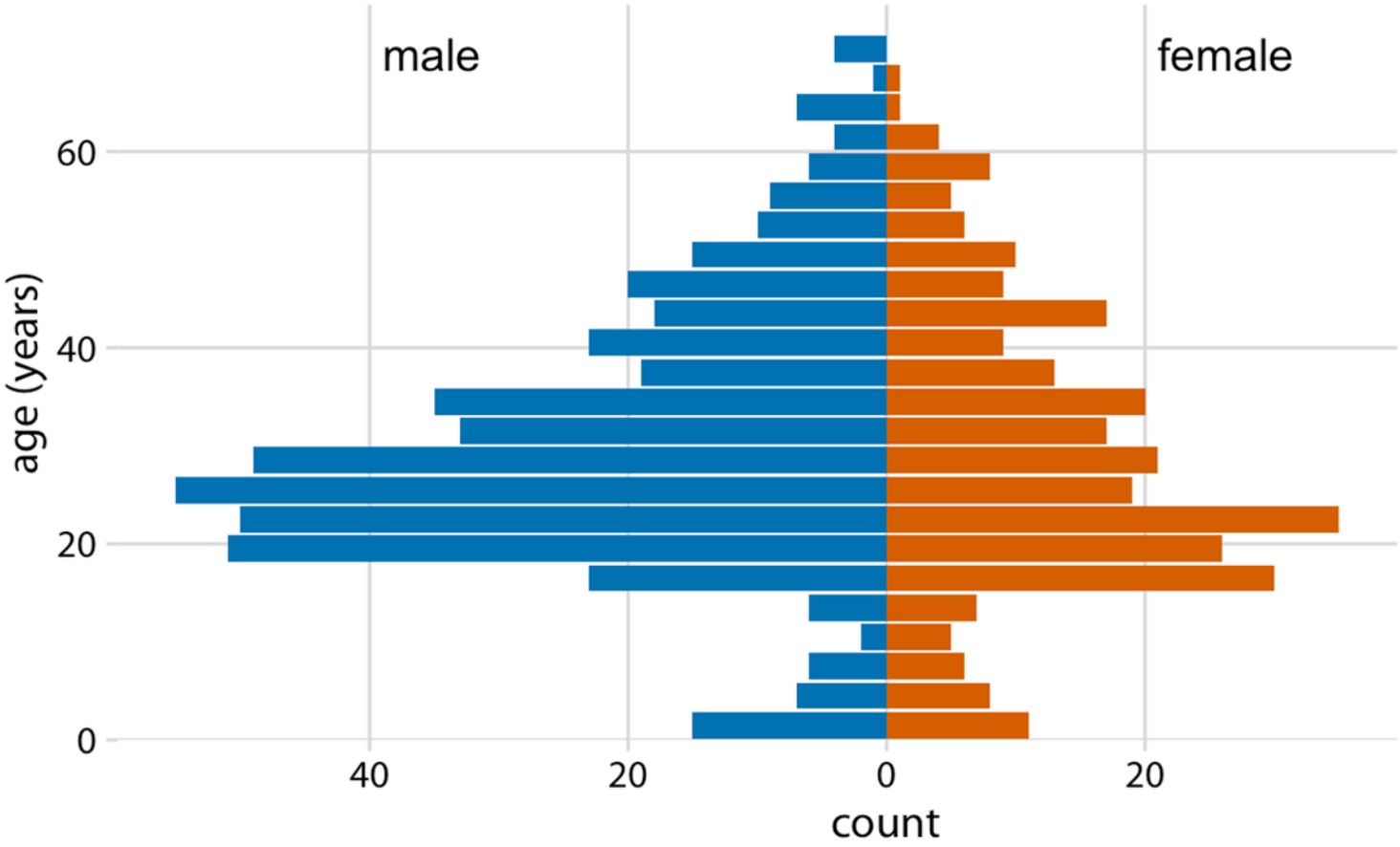

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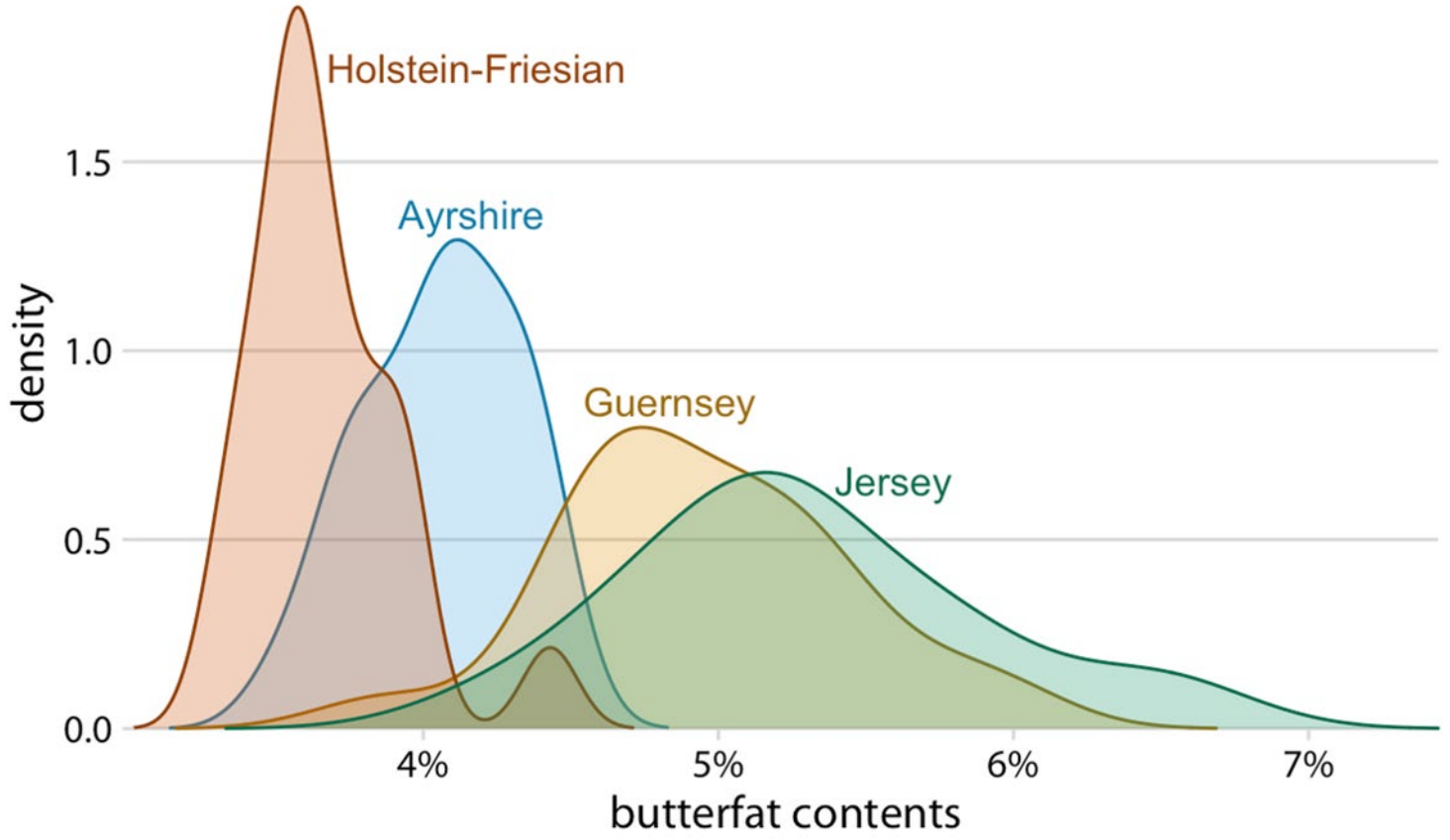

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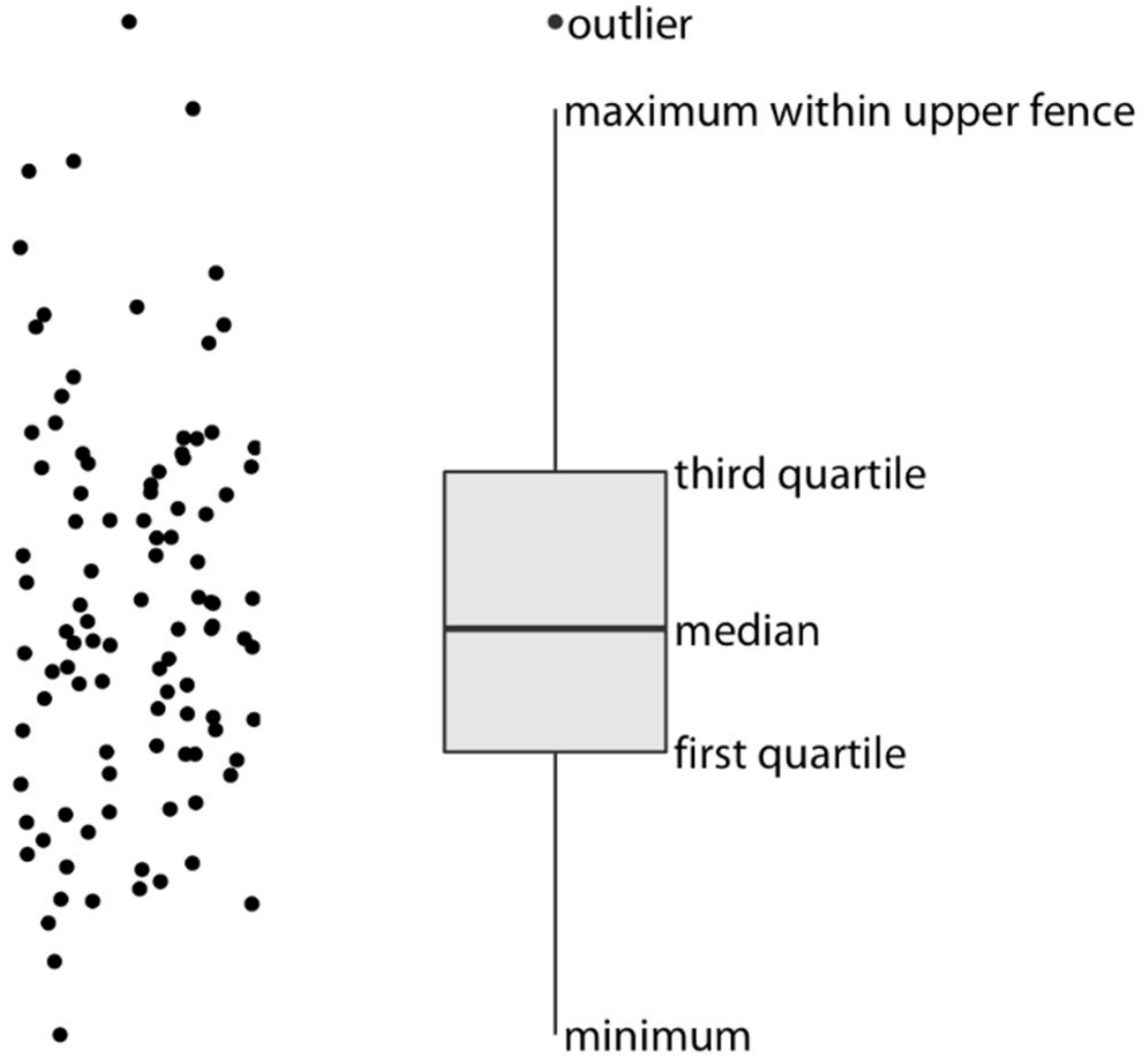

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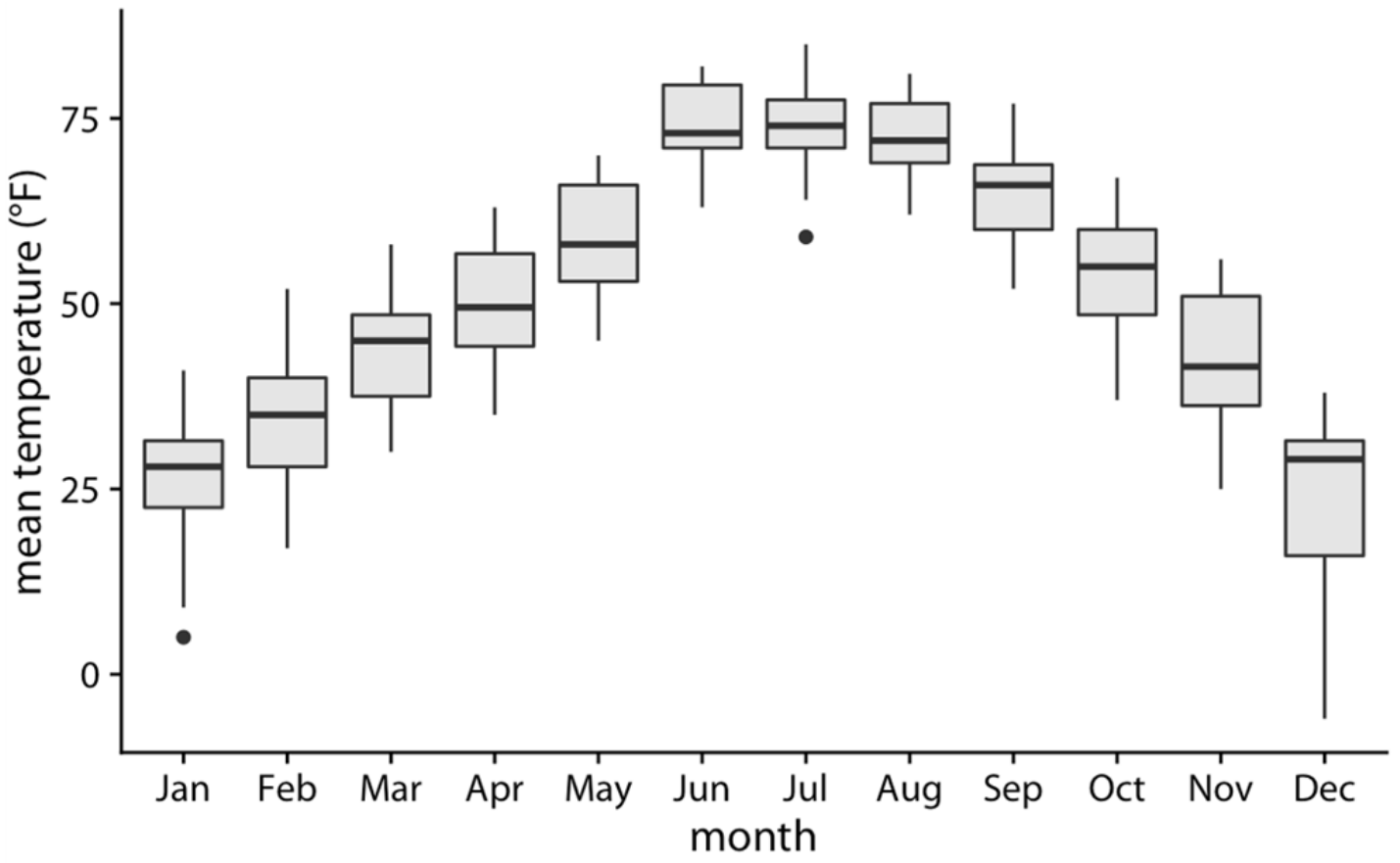

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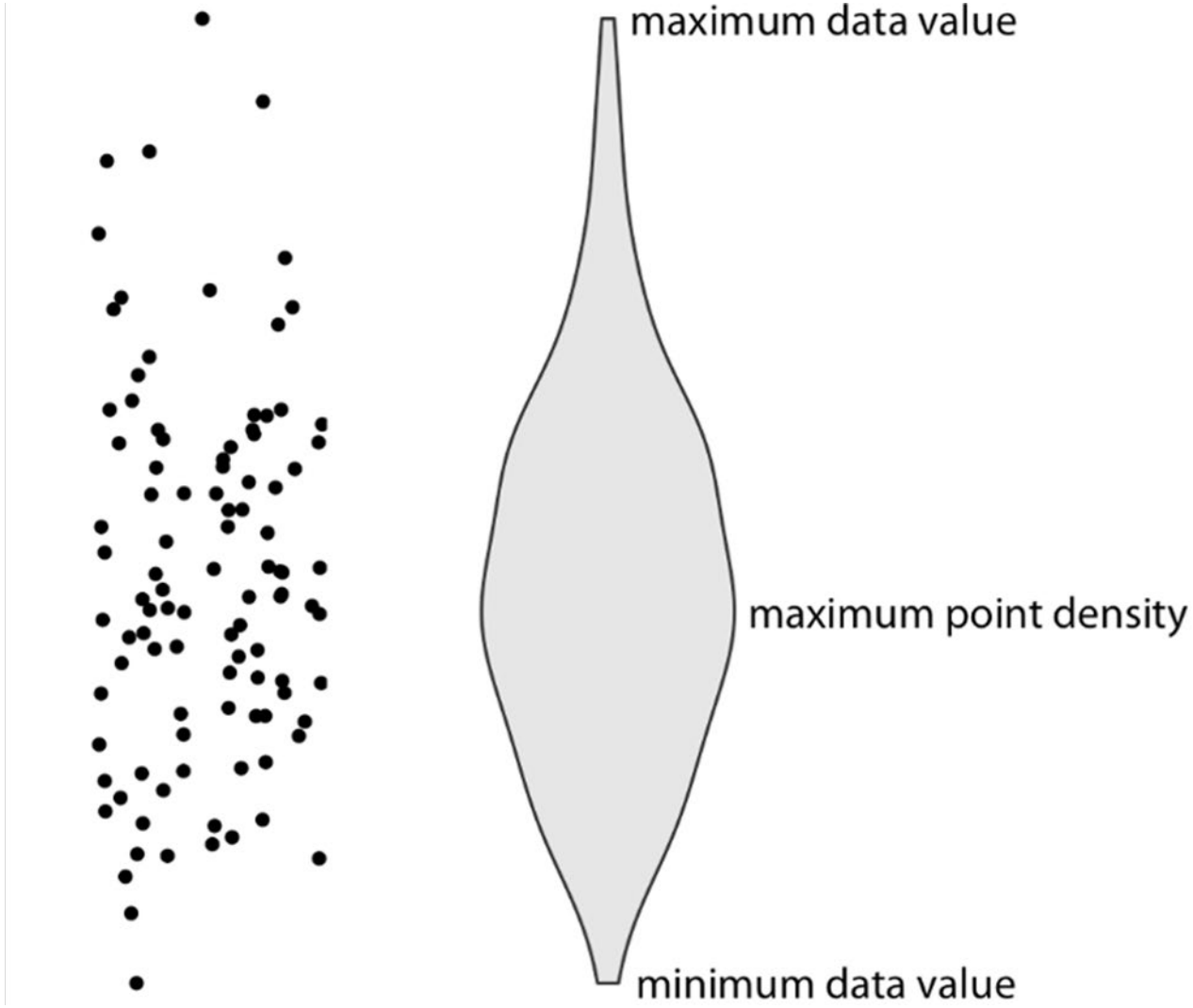

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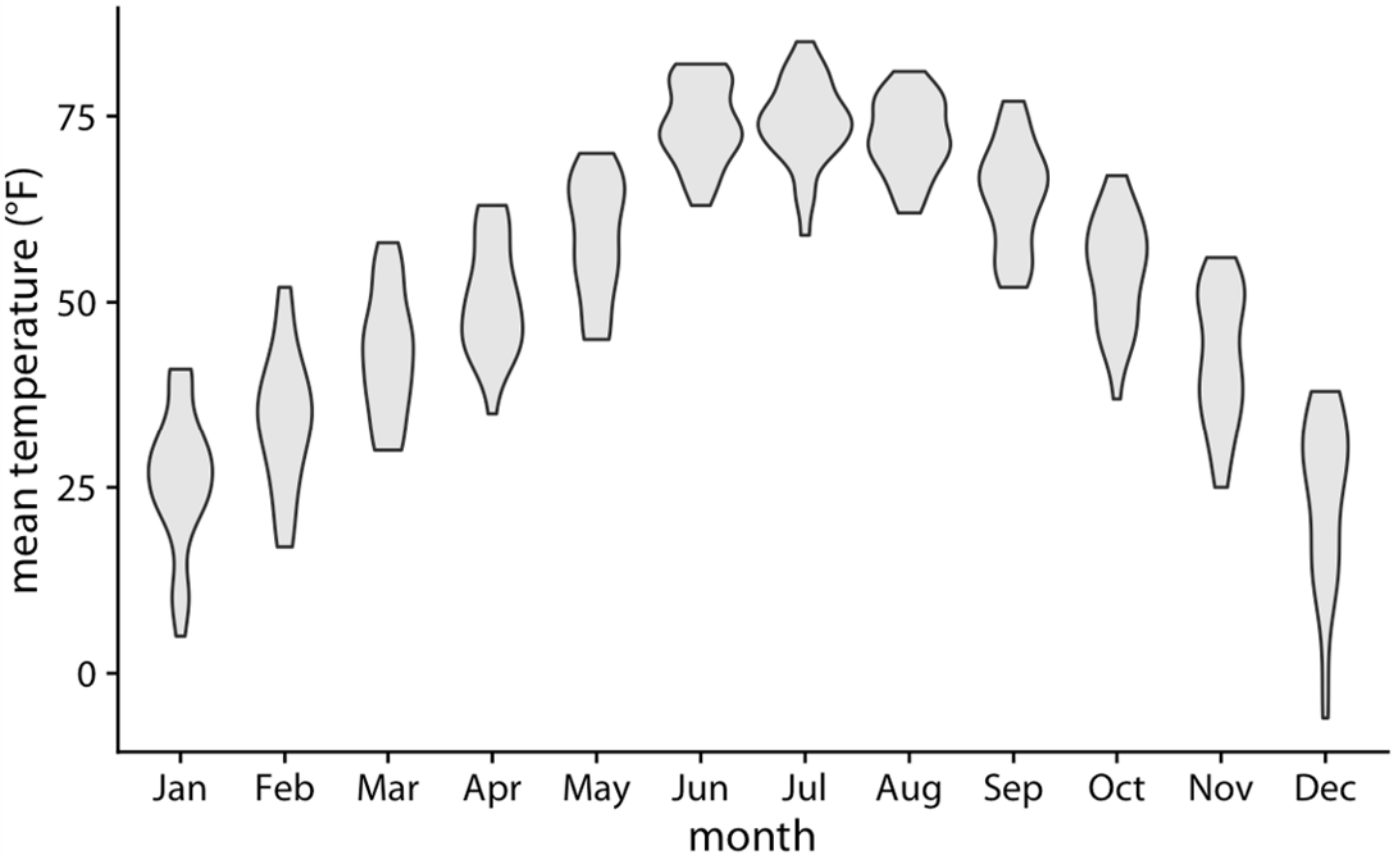

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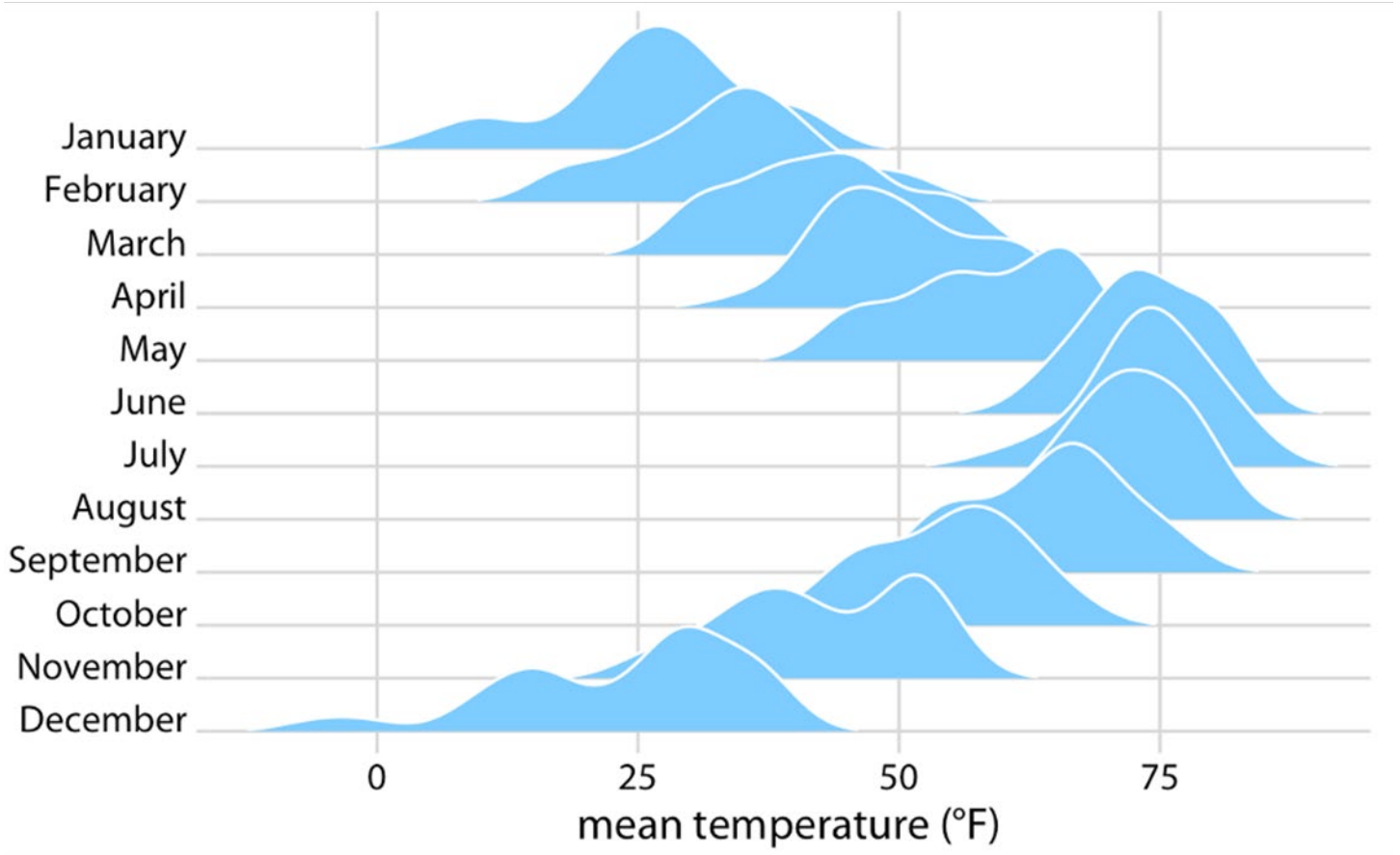

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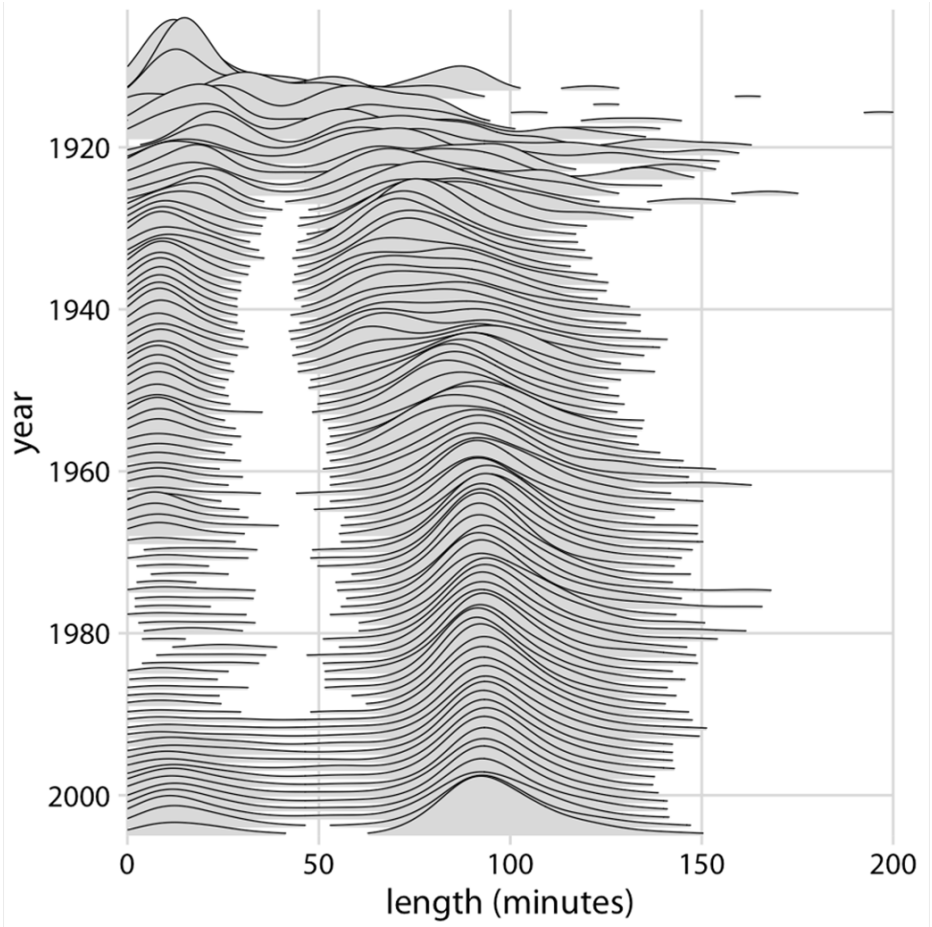

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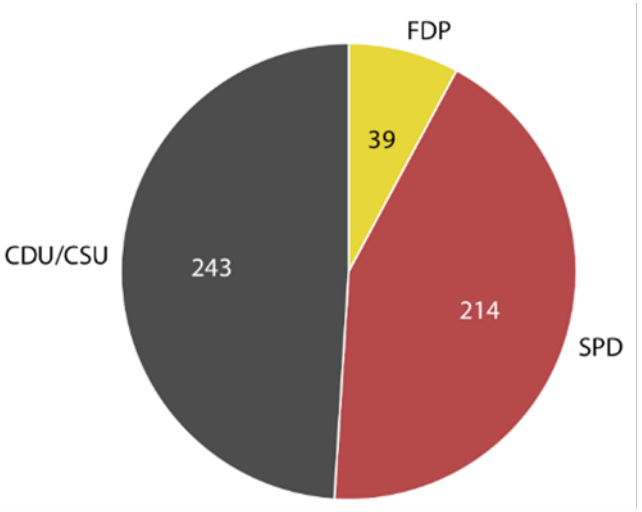
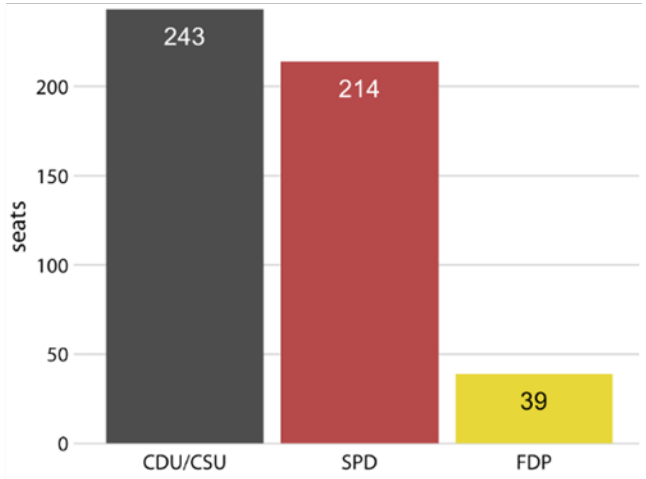
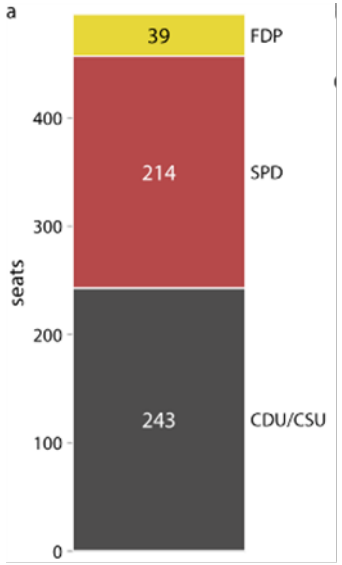
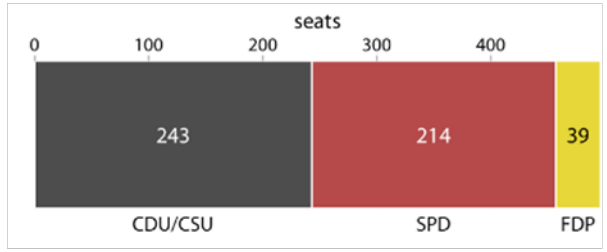
VISUALIZING PROPORTIONS









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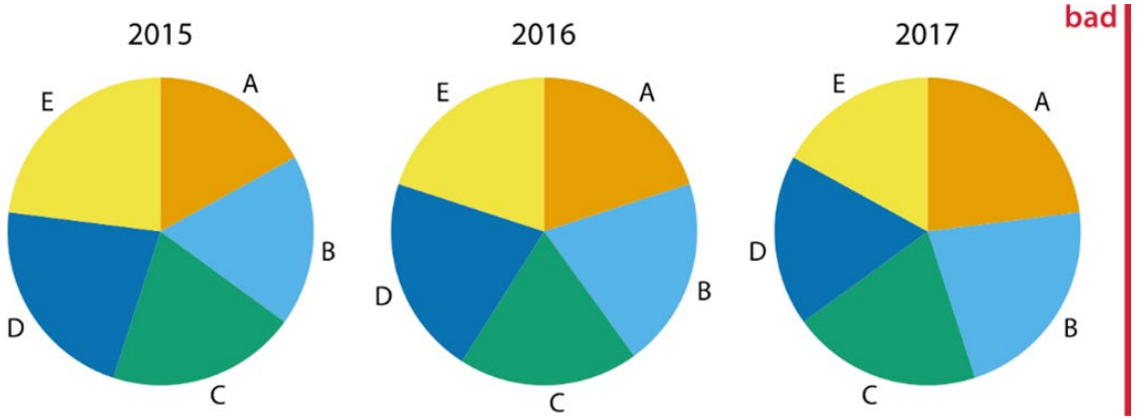

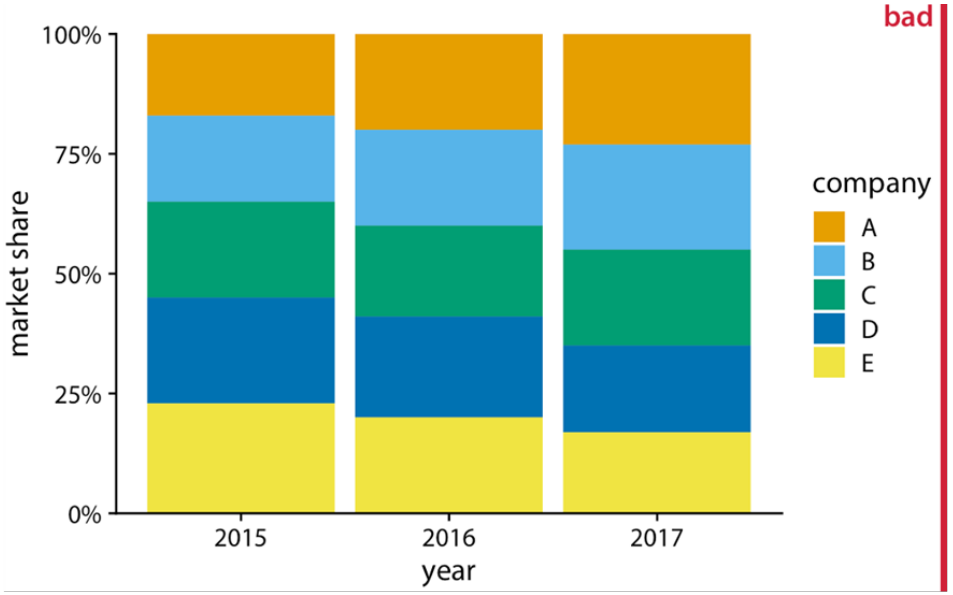

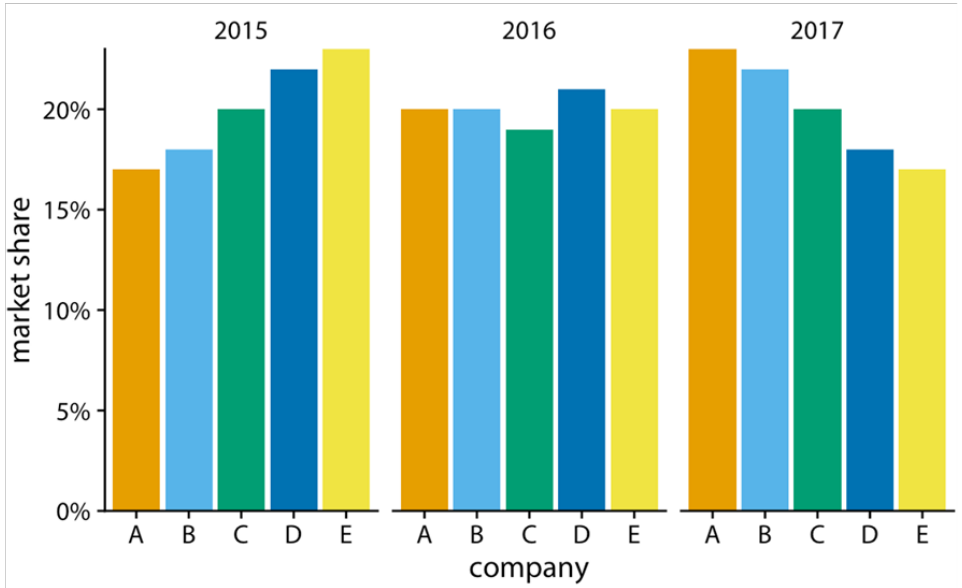

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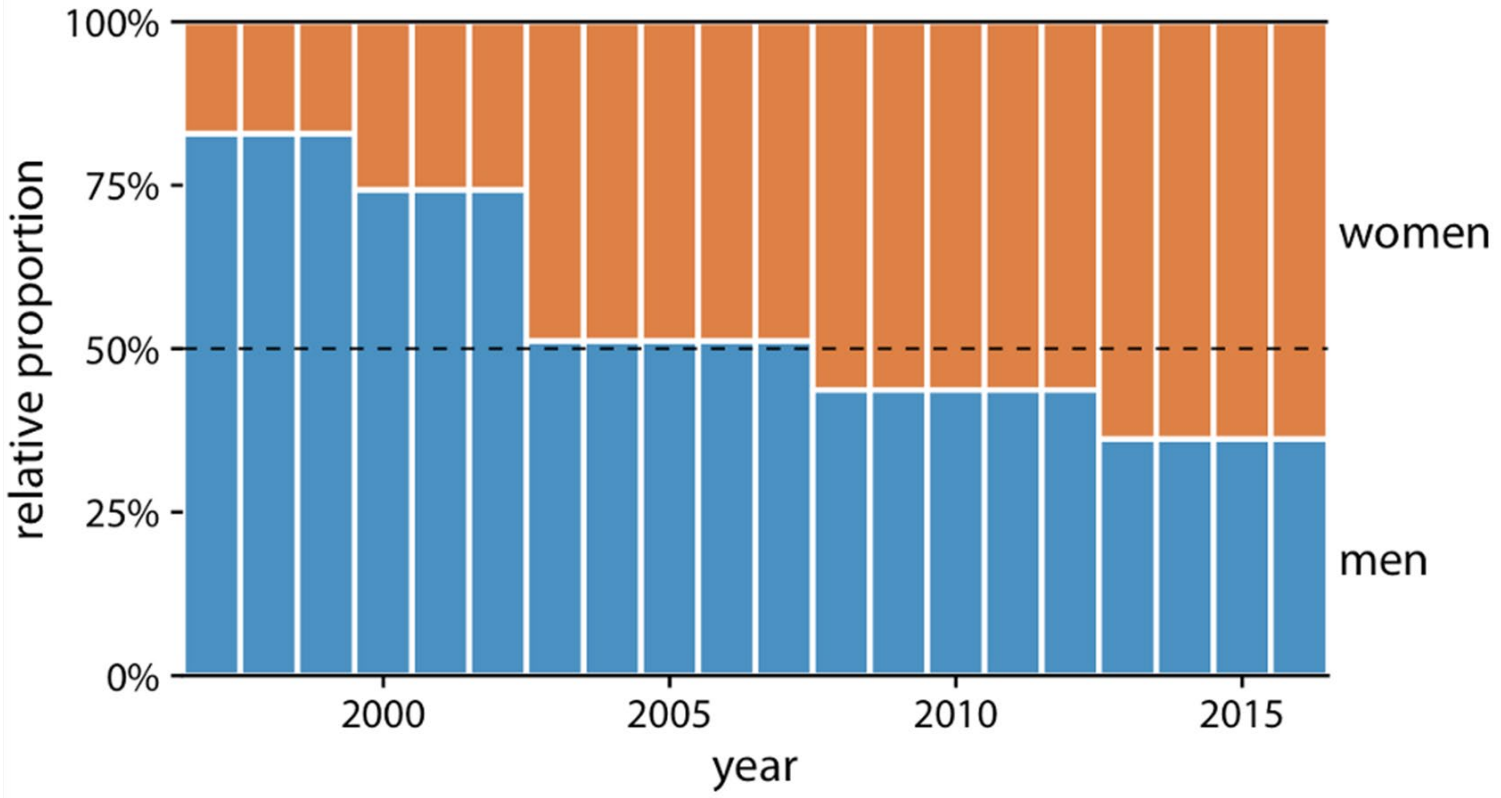

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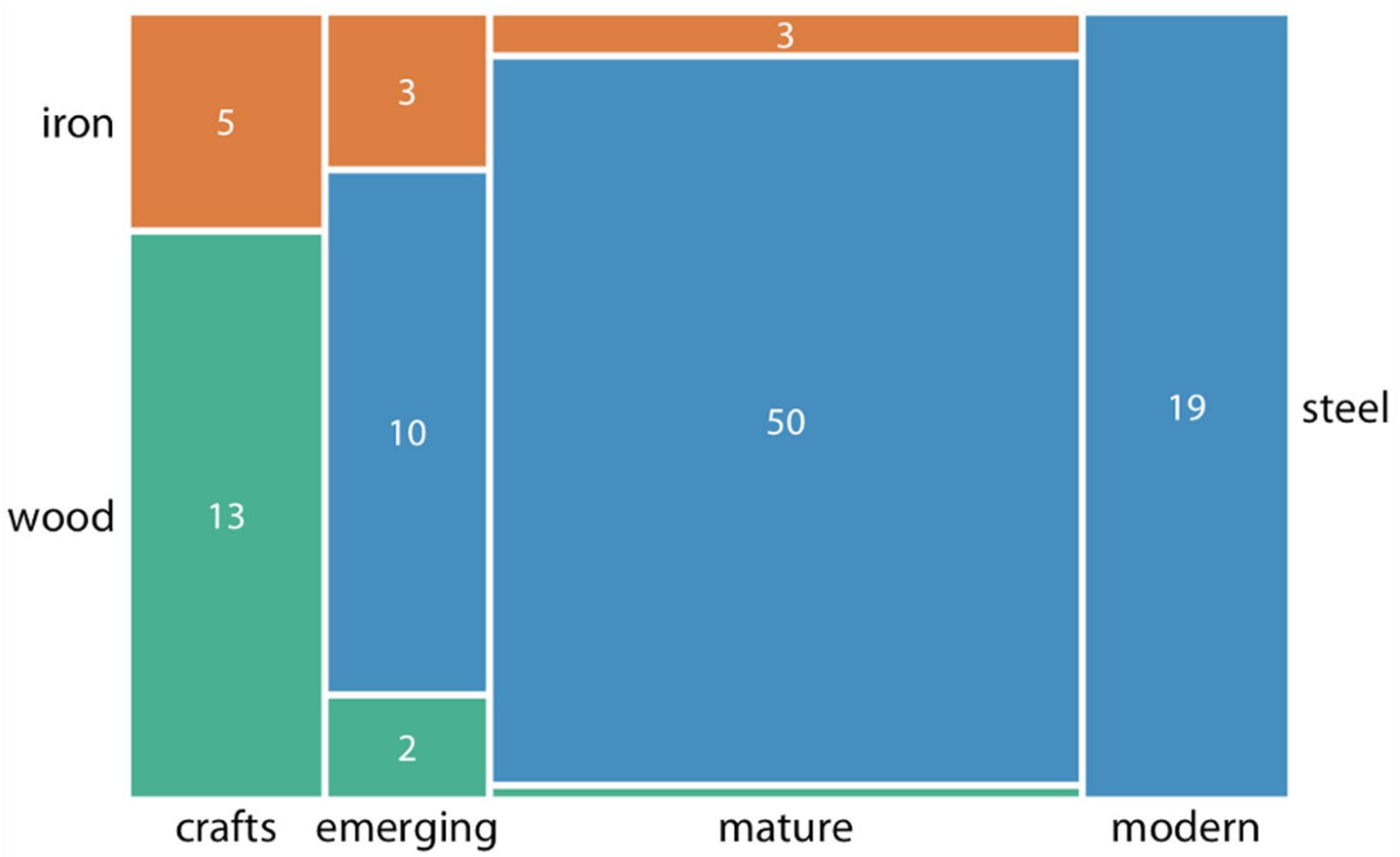
VISUALIZING NESTED PROPORTIONS



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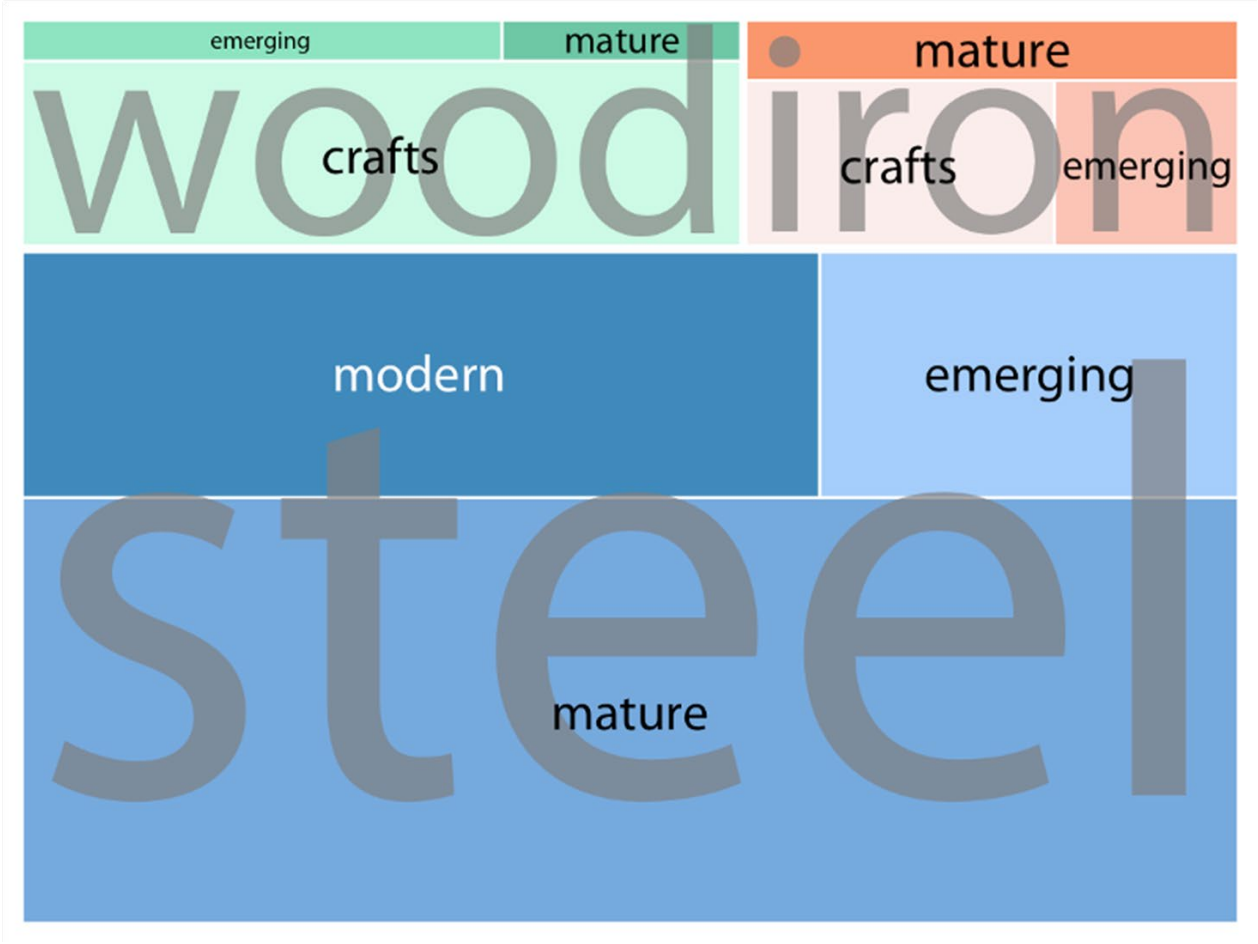

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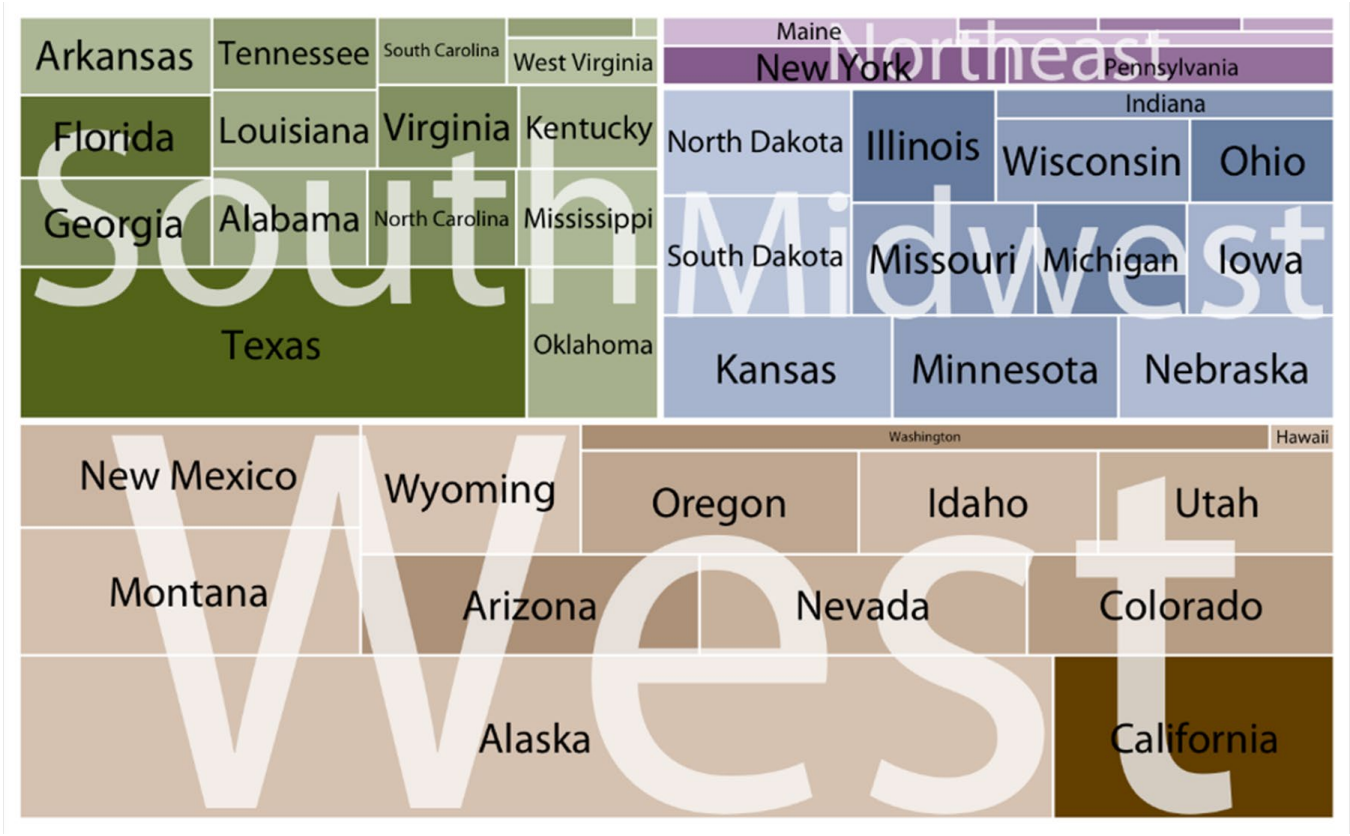
INTRODUCTION TO DATA VISUALIZATION: GRAPHS & MAPS

VISUALIZING NESTED PROPORTIONS



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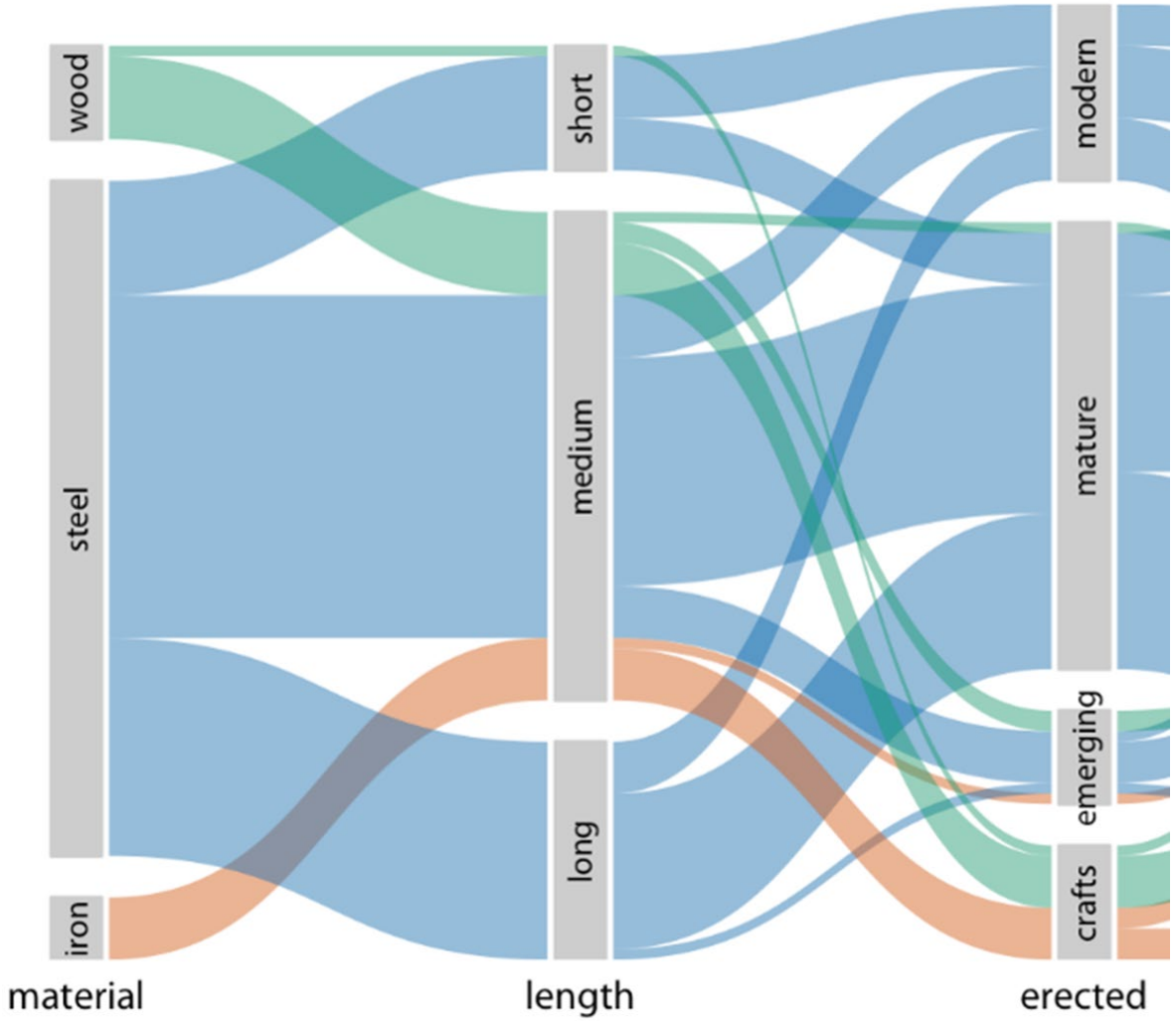

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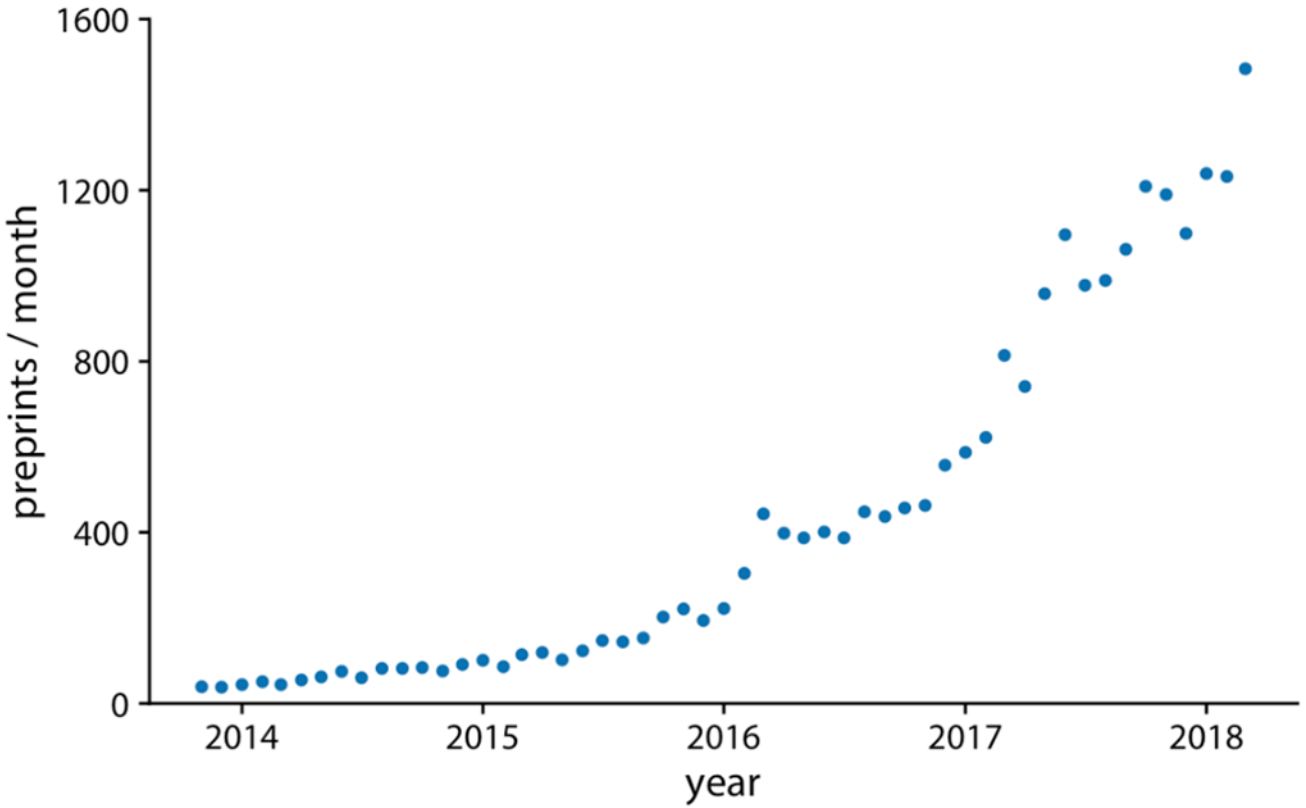
INTRODUCTION TO DATA VISUALIZATION: GRAPHS & MAPS

VISUALIZING TIME SERIES



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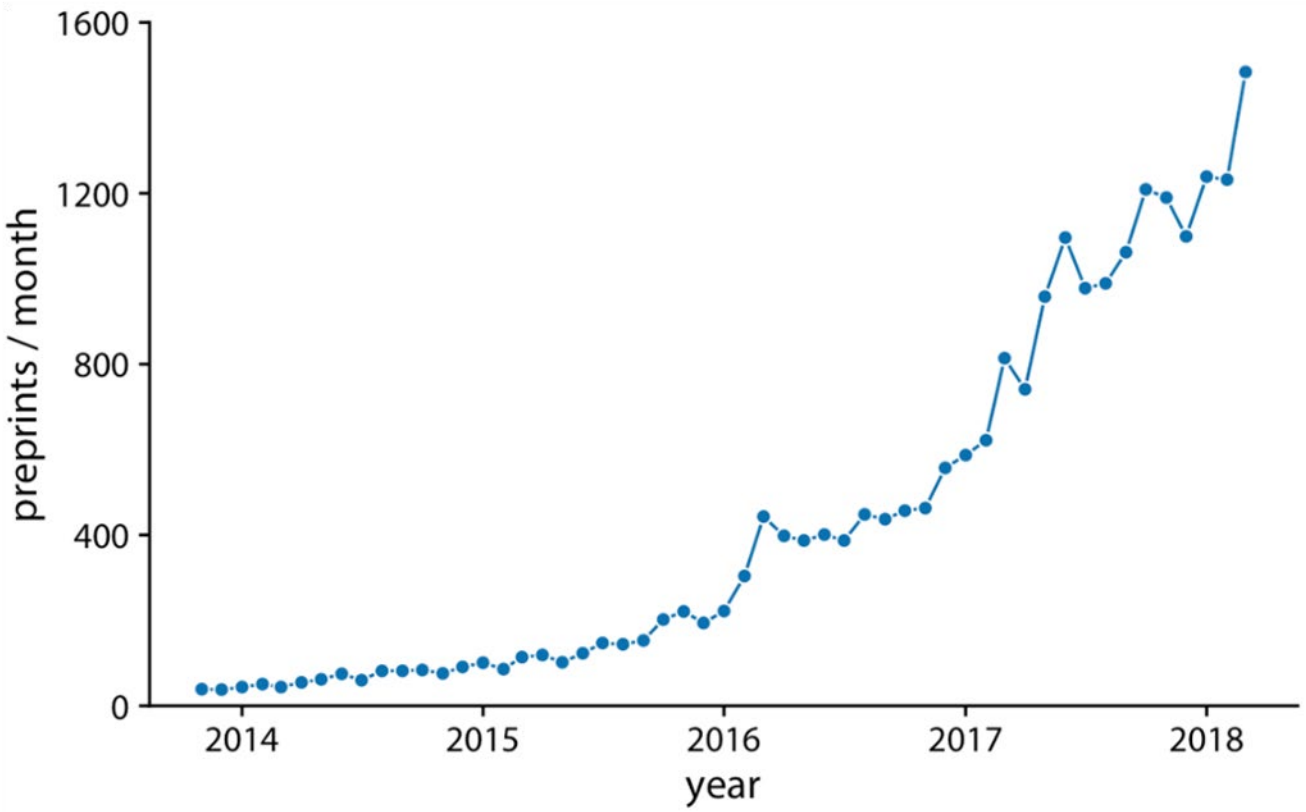

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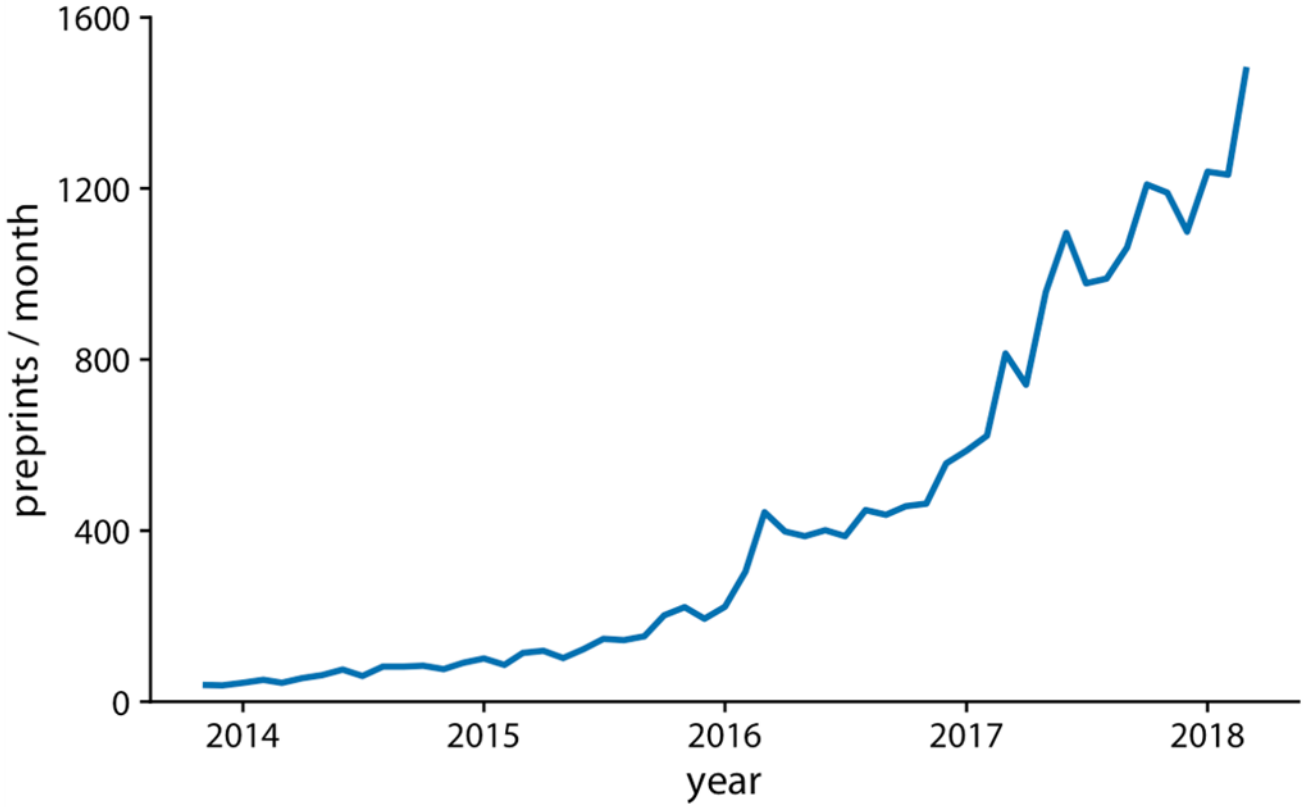

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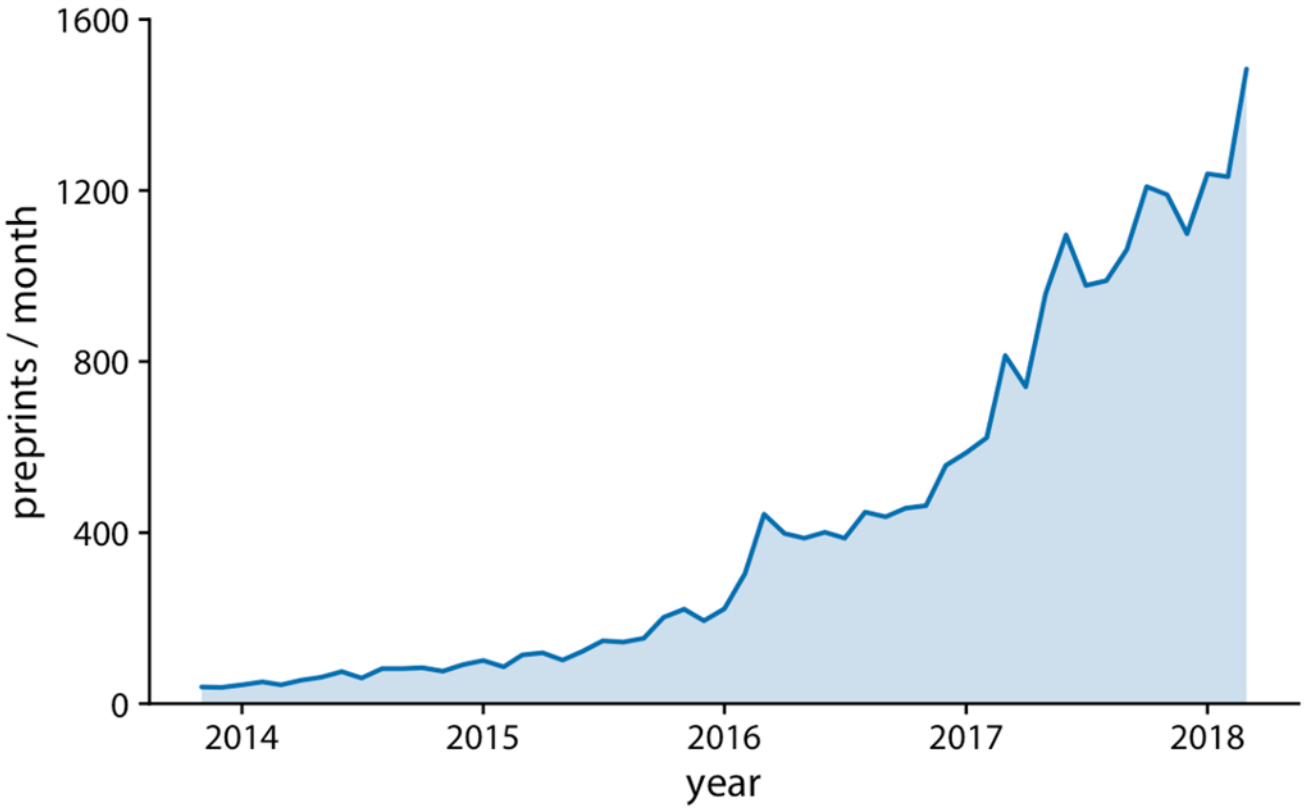

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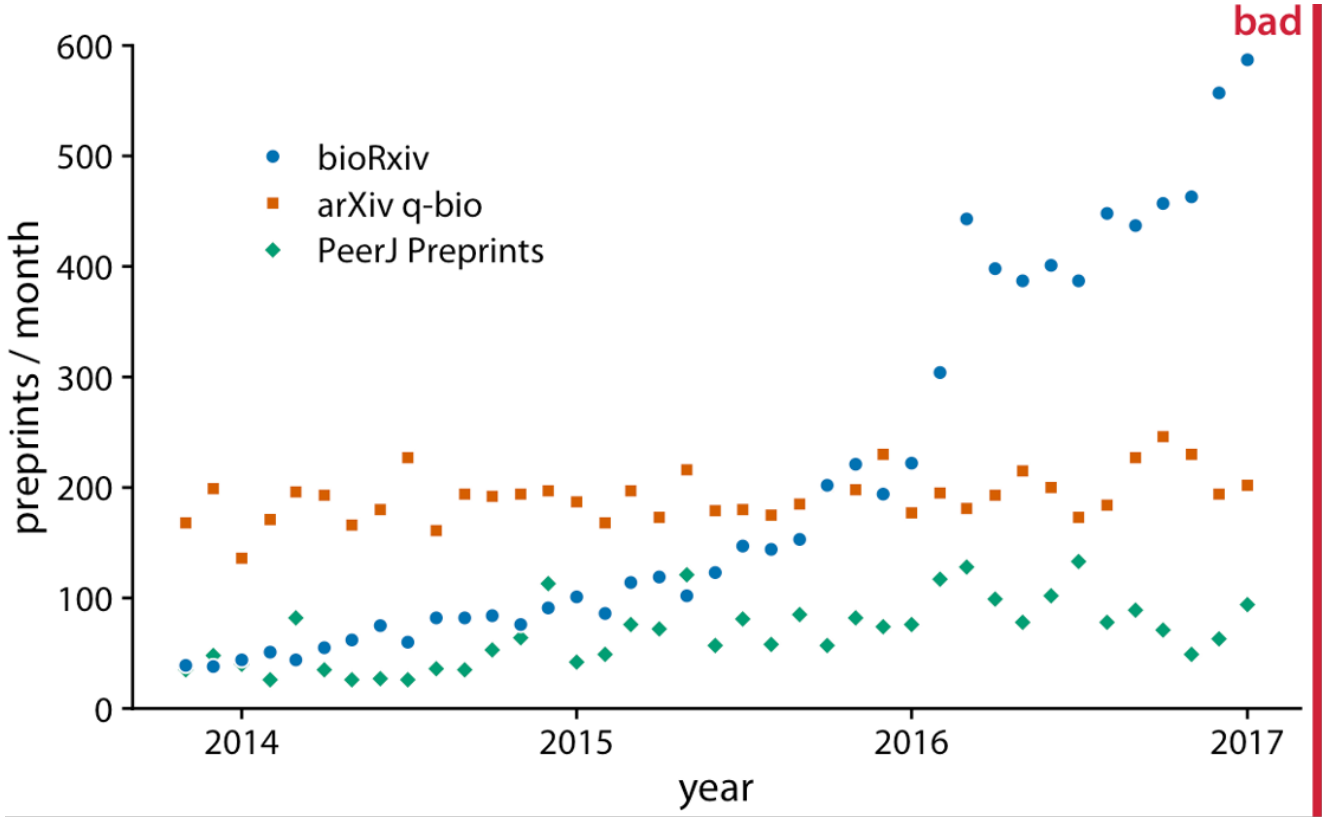

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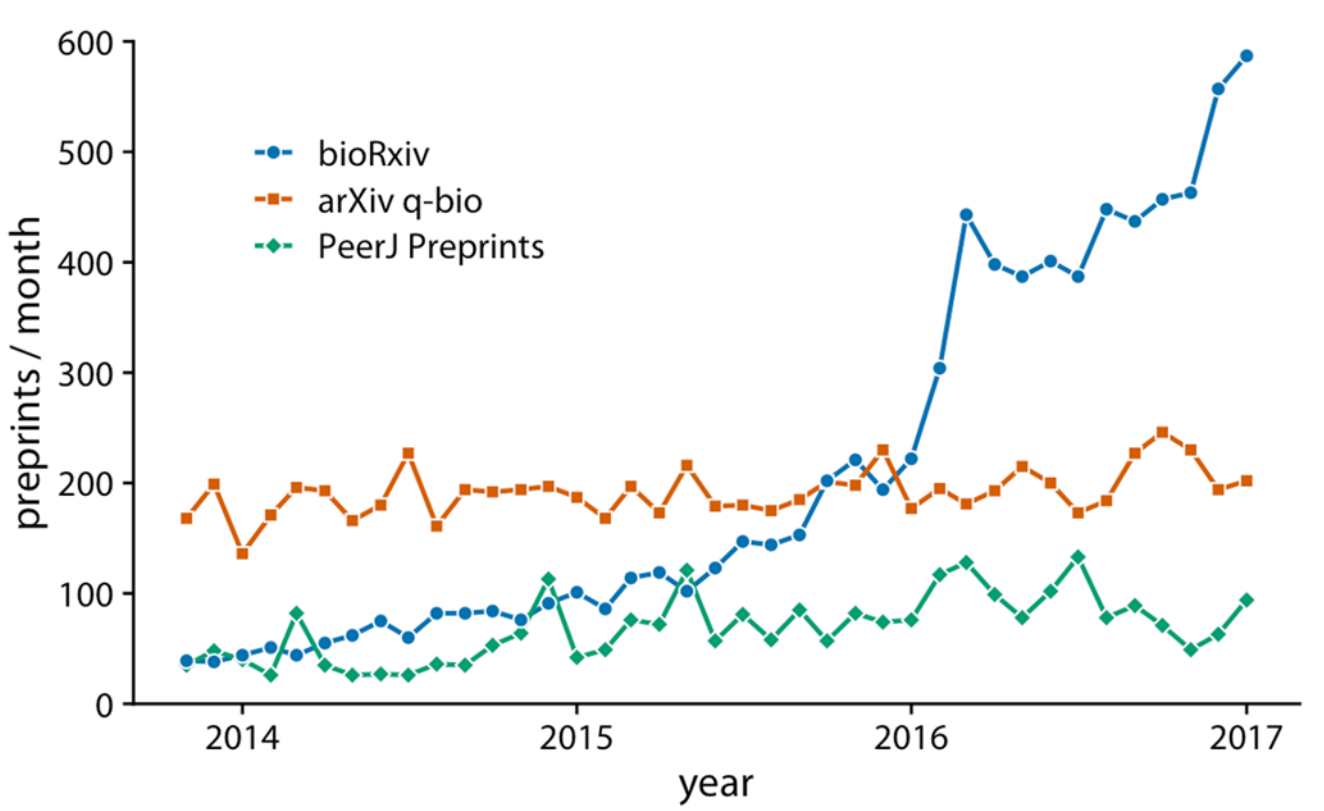

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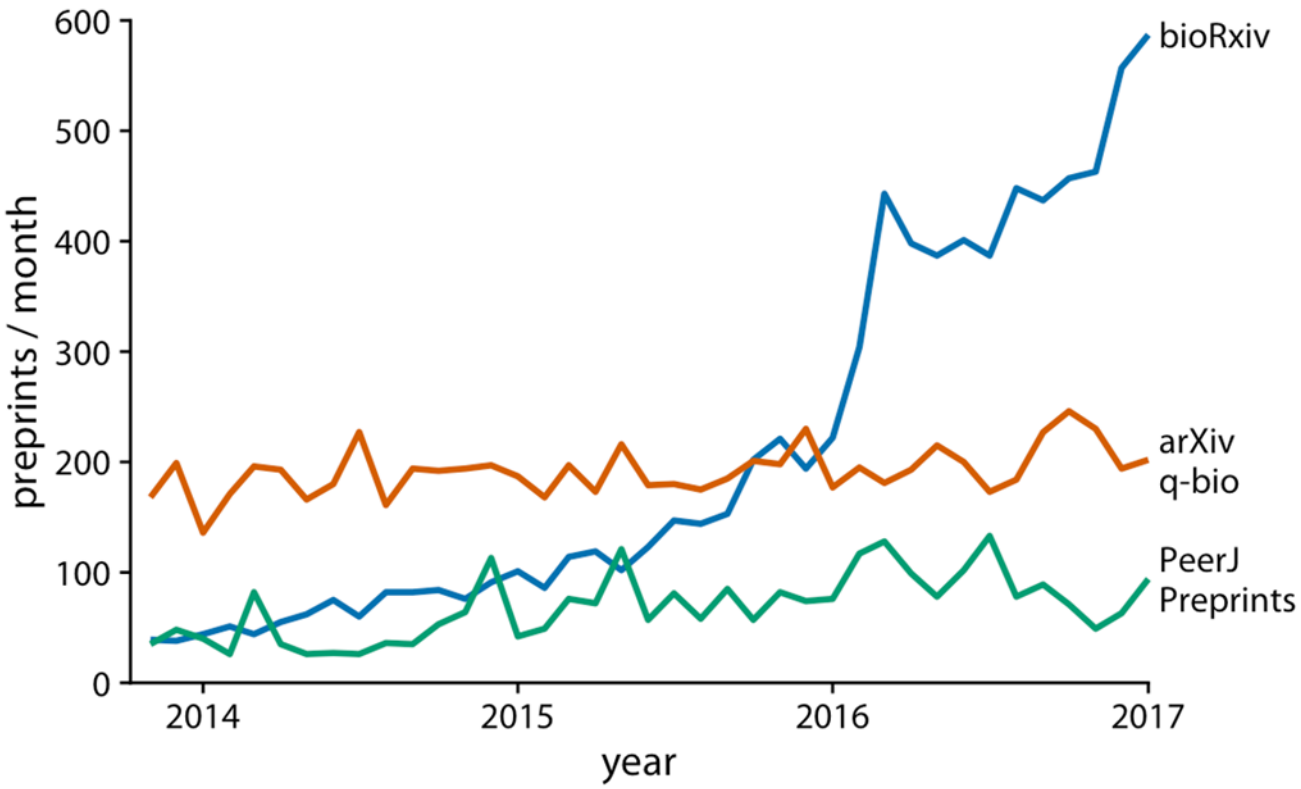

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INTRODUCTION TO DATA VISUALIZATION: GRAPHS & MAPS

VISUALIZING GEOSPATIAL DATA

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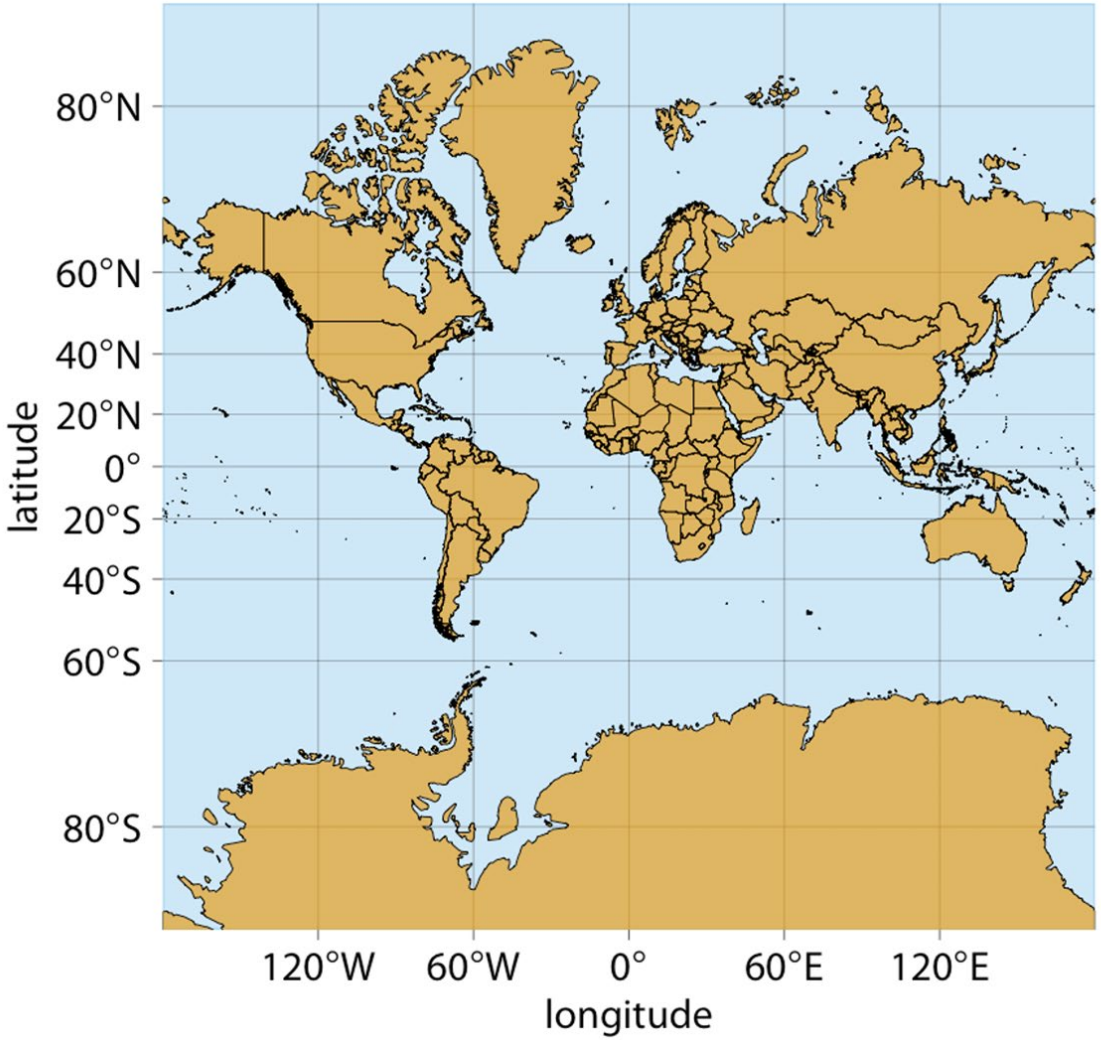
INTRODUCTION TO DATA VISUALIZATION: GRAPHS & MAPS

VISUALIZING GEOSPATIAL DATA



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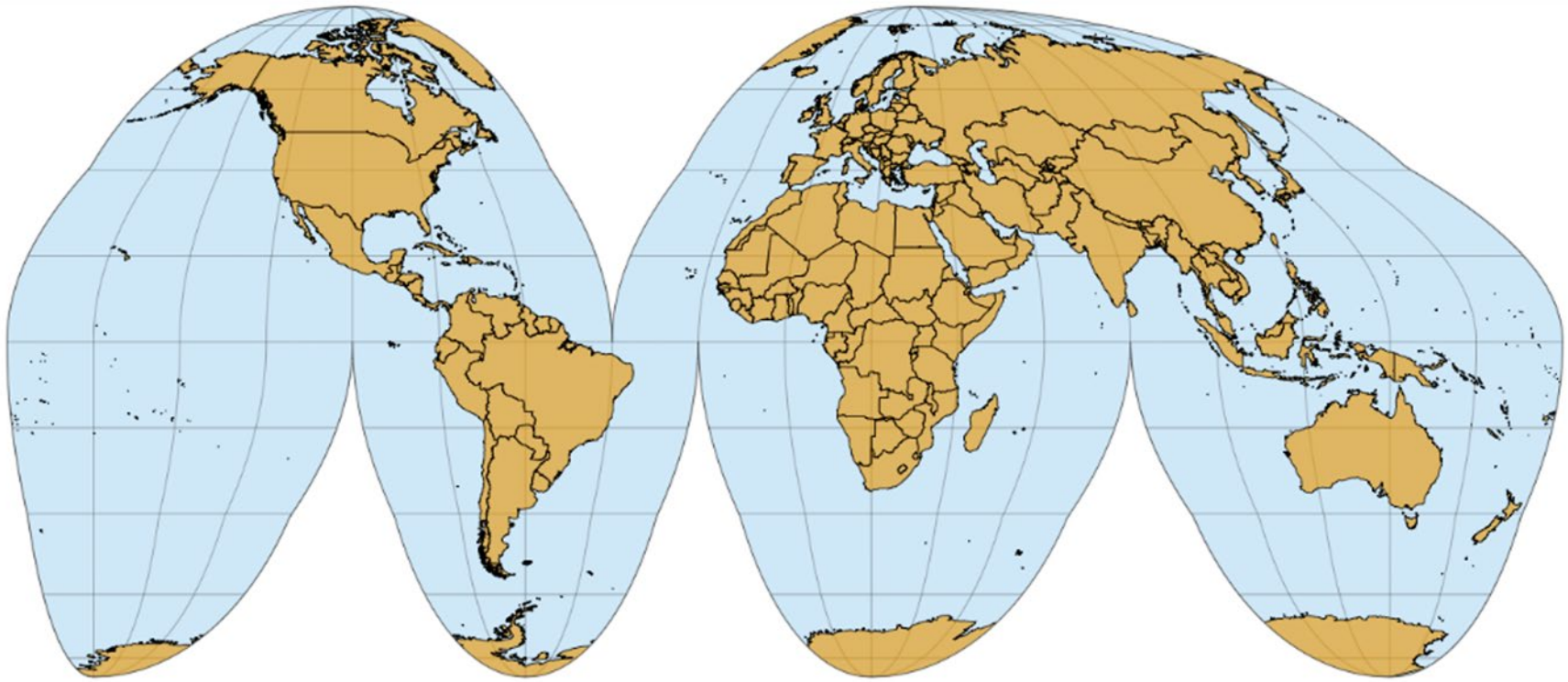

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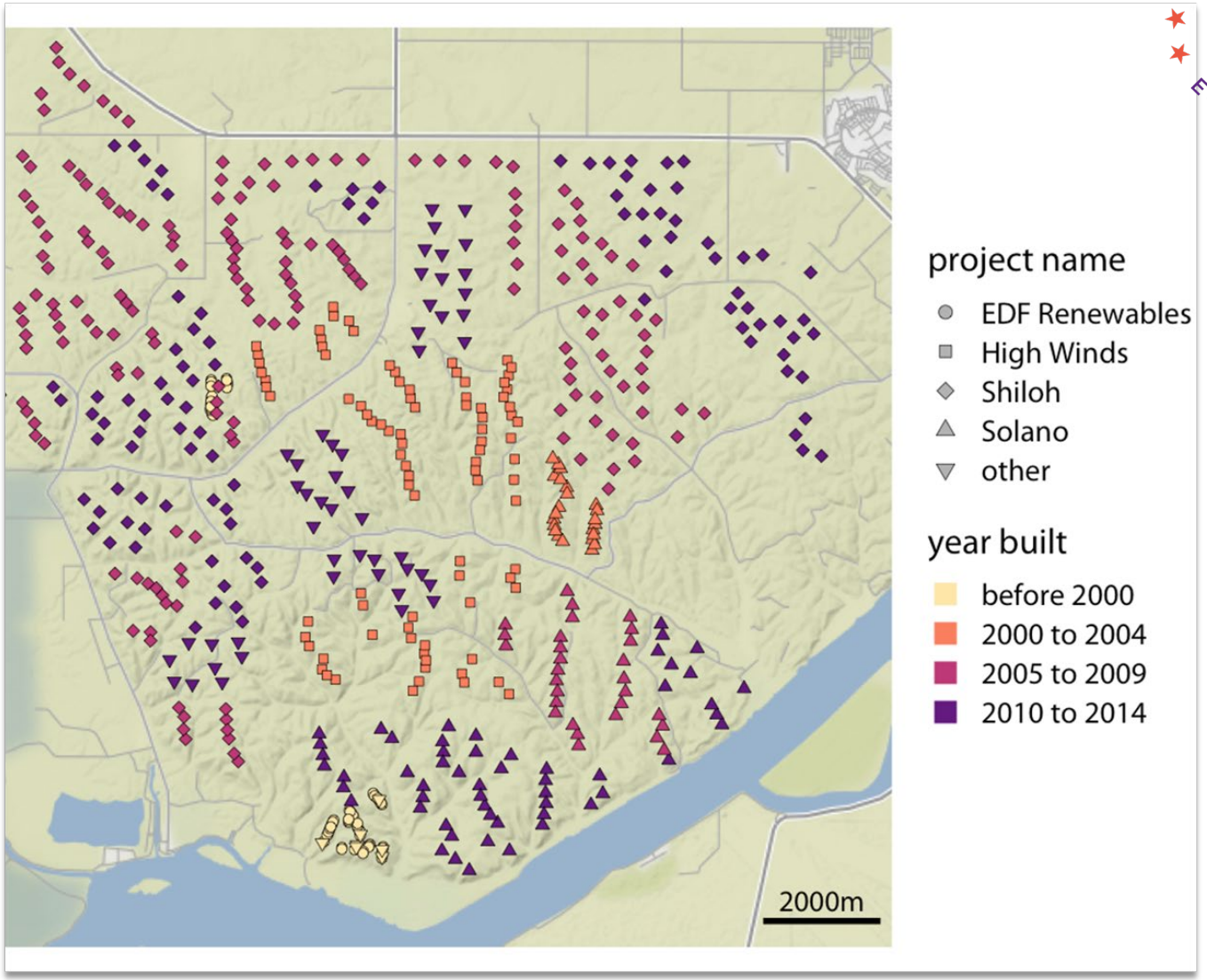

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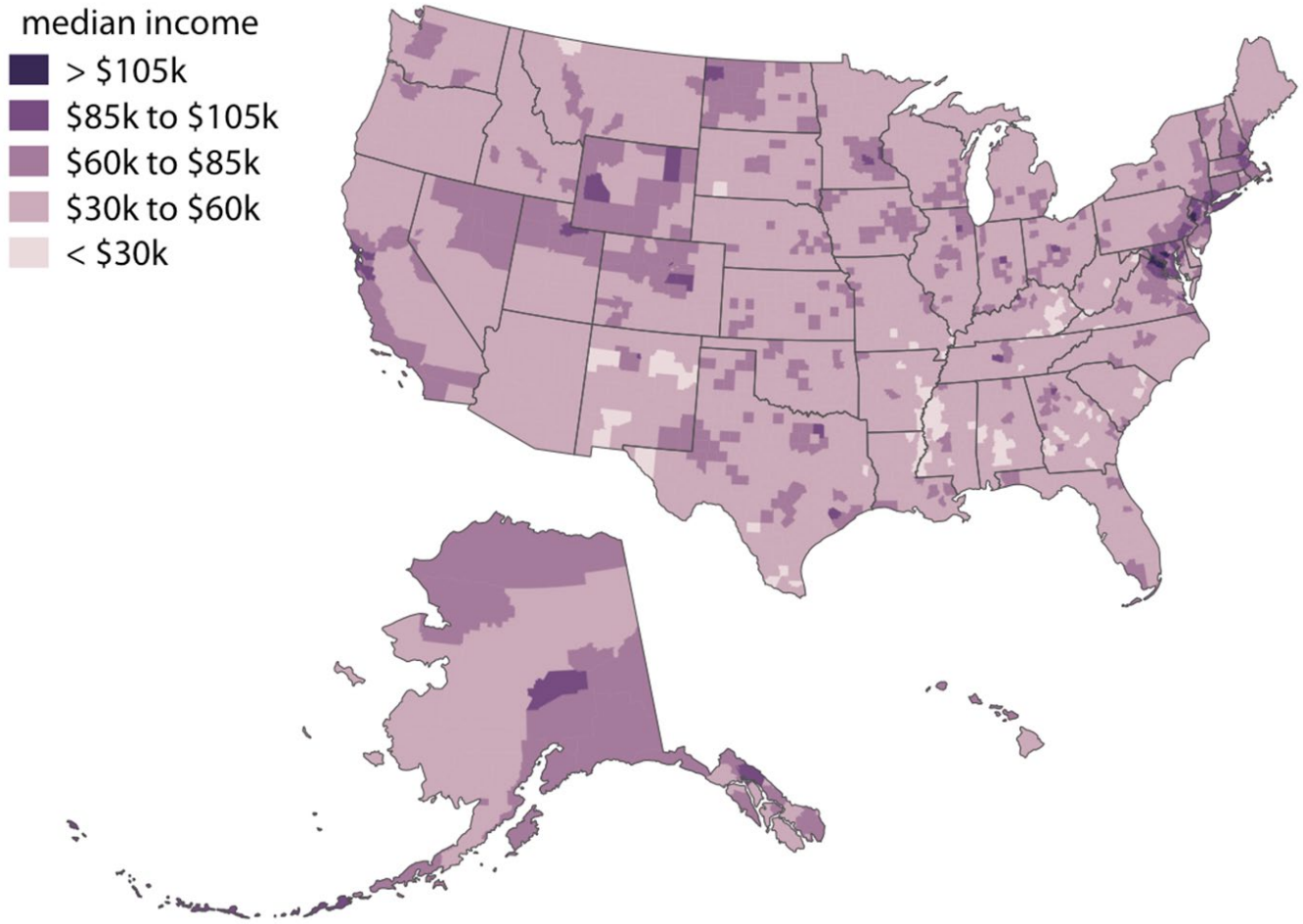

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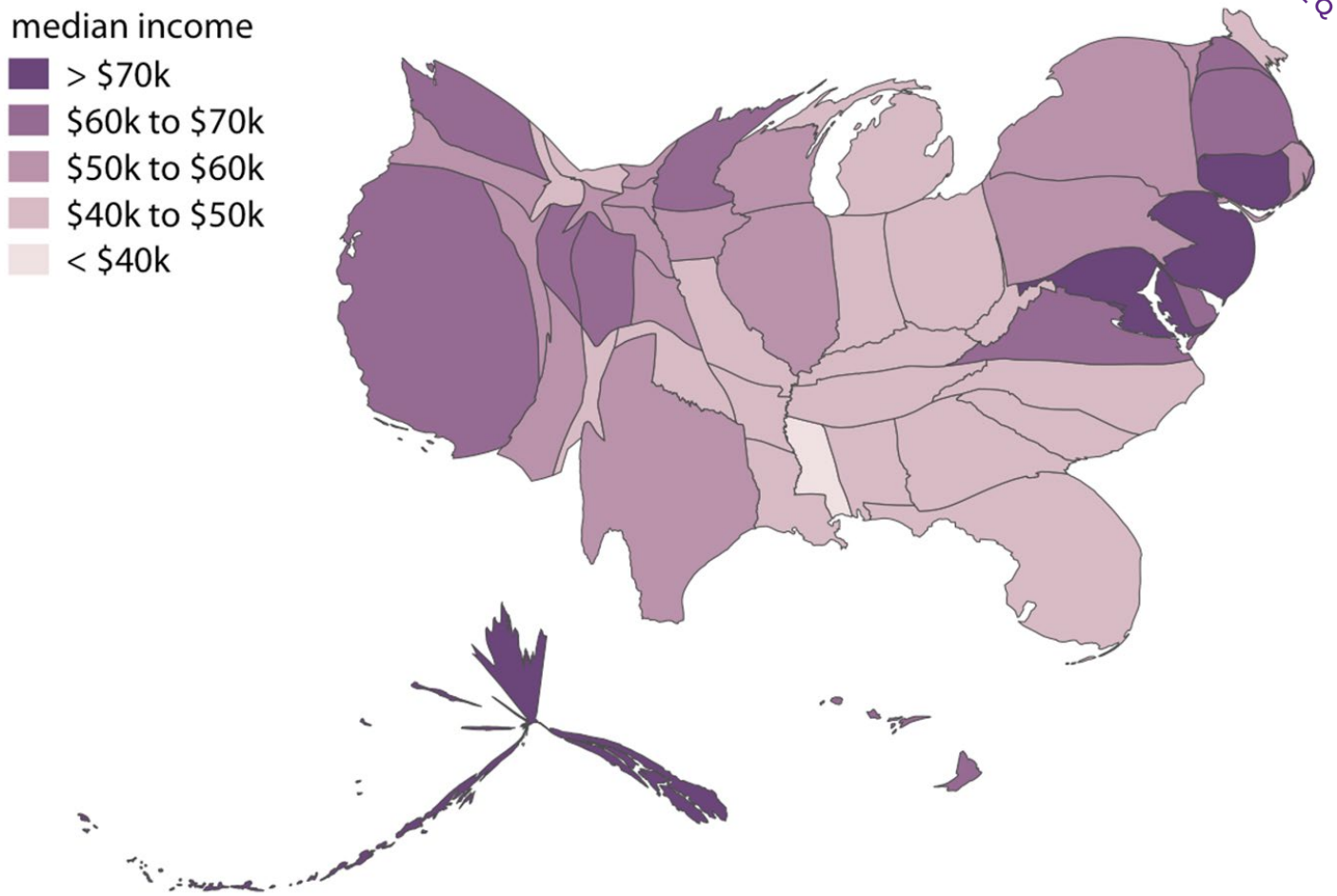

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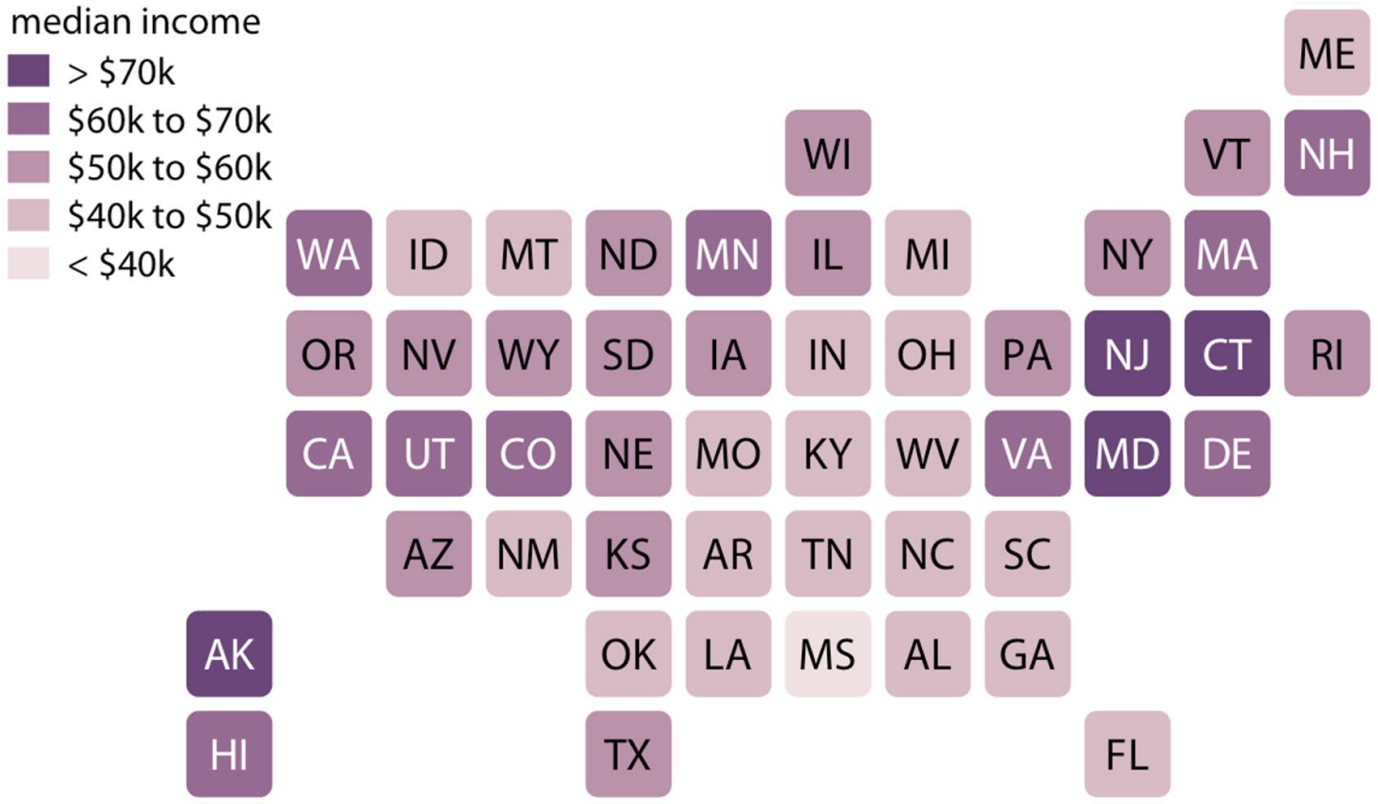

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EXAMPLES OF VISUALIZING THE GENDER GAP

FLOWINGDATA – GENDER

A web page with links to a variety of projects that make use of data visualizations (graphs/maps) for evidencing gender inequalities

https://flowingdata.com/tag/gender/

GENDER DATA PORTAL – THE WORLD BANK

The World Bank's Gender Data Portal makes the latest gender statistics accessible through compelling narratives and data visualizations to improve the understanding of gender data and facilitate analyses that inform policy choices.

https://genderdata.worldbank.org/

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EXAMPLES OF VISUALIZING THE GENDER GAP

7 DATA VISUALIZATIONS THAT OPENED THE WORLD'S EYES TO GENDER INEQUALITY

Blog that shows a selection of seven projects that visualize gender inequality

https://medium.com/@Katja_Iversen/7-data-visualizations-that-opened-the-worlds-eyes-to-gender-inequality-75ee03b60589

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THE EU GENDER EQUALITY INDEX

GENDER EQUALITY INDEX

The Gender Equality Index is a tool to measure the progress of gender equality in the EU, developed by the European Institute of Gender Equality (EIGE).

It gives more visibility to areas that need improvement and ultimately supports policy makers to design more effective gender equality measures.

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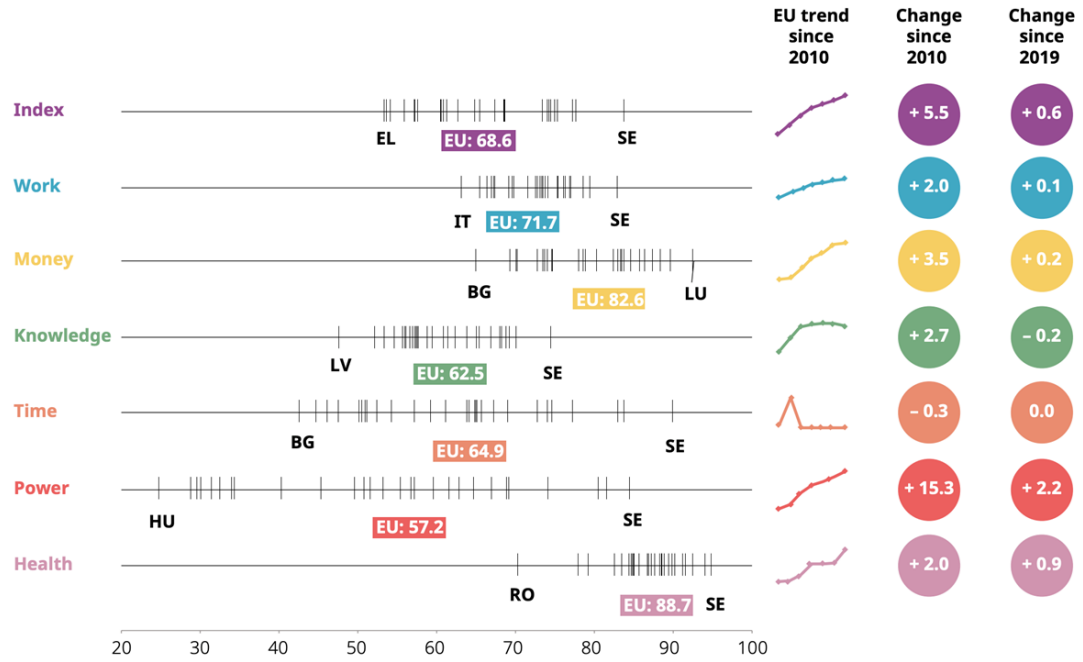
THE EU GENDER EQUALITY INDEX

Find out the complete 2022 EIGE report at:

https://eige.europa.eu/sites/default/files/documents/gender_equality_index_2022_corr.pdf

Figure 1. Ranges of *Gender Equality Index 2022* (*) scores for Member States, and changes over time



Source: Authors' calculation.
(*) The 2022 Index for the most part uses data from 2020 and traces progress over the shorter term (2019–2020) and the longer term (2010–2020).

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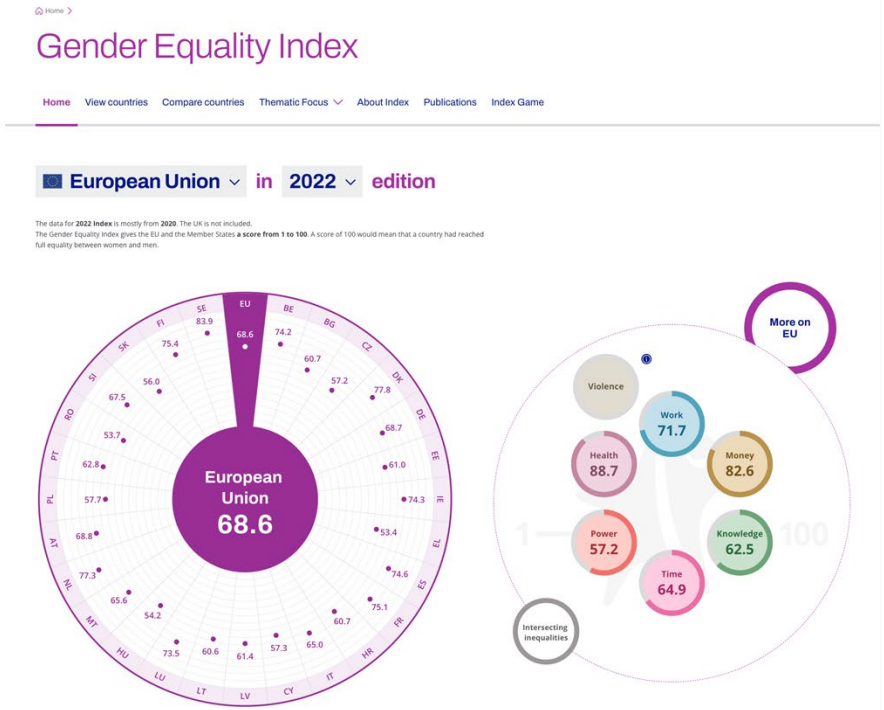
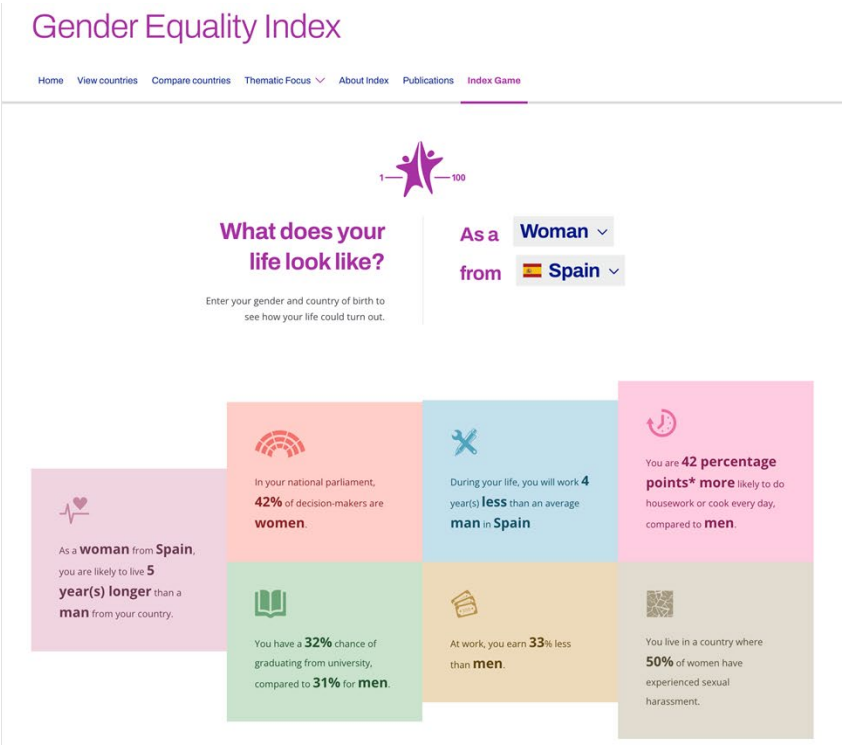
THE EU GENDER EQUALITY INDEX

Explore the EIGE's proposed visualizations at:

https://eige.europa.eu/gender-equality-index/2021/EU





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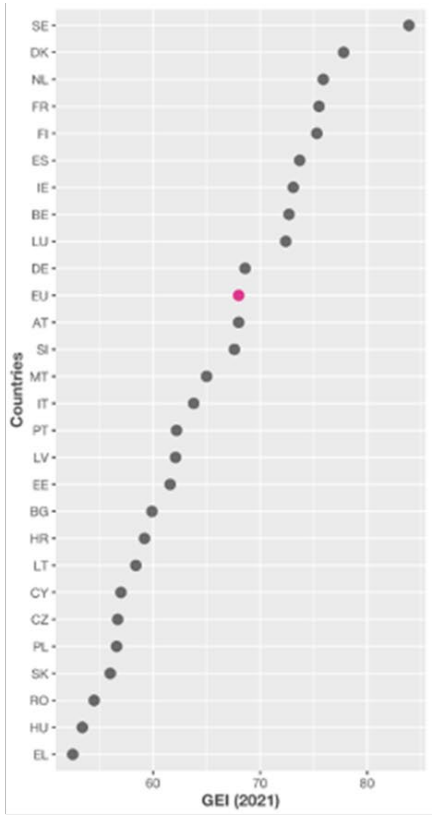
THE EU GENDER EQUALITY INDEX

See other proposed visualizations at (chapter 5):

https://omp.uv.es/index.php/PUV/catalog/book/460



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THE EU GENDER EQUALITY INDEX

Explore the raw data at:

https://eige.europa.eu/modules/custom/eige_gei/app/content/downloads/gender-equality-index-2013-2015-2017-2019-2020-2021-2022.xlsx

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1					Scores (index, domains, sub-domains, indicators)										
2	Index year	Reference year (main)	Protocol order	Country	Gender Equality Index	WORK	Participation	Segregation and quality of work	MONEY	Financial resources	Economic situation	KNOWLEDGE	Attainment and participation	Segregation	TIME
3	2022	2020	0	EU27	68.6	71.7	81.1	63.3	82.6	77.2	88.3	62.5	72.1	54.1	64.9
4	2022	2020	1	BE	74.2	75.5	80.4	70.9	89.8	84.9	95.1	70.1	73.8	66.6	65.3
5	2022	2020	2	BG	60.7	69.3	83.6	57.4	65.0	55.3	76.5	56.2	57.0	55.4	42.7
6	2022	2020	3	CZ	57.2	67.1	83.5	53.8	79.0	64.2	97.1	58.9	65.3	53.1	57.3
7	2022	2020	4	DK	77.8	79.5	88.4	71.5	88.5	84.9	92.3	69.3	79.3	60.6	83.1
8	2022	2020	5	DE	68.7	72.9	84.9	62.5	83.5	85.2	81.8	54.7	64.8	46.1	65.0
9	2022	2020	6	EE	61.0	72.7	90.4	58.5	73.6	64.0	84.7	57.4	71.9	45.8	74.7
10	2022	2020	7	IE	74.3	76.5	82.5	70.9	87.5	82.3	93.1	68.1	79.7	58.2	74.2
11	2022	2020	8	EL	53.4	65.6	72.8	59.1	72.8	61.2	86.7	55.8	67.1	46.4	44.7
12	2022	2020	9	ES	74.6	73.6	79.4	68.2	78.7	73.5	84.3	68.3	77.0	60.6	64.0
13	2022	2020	10	FR	75.1	73.2	83.5	64.2	84.7	78.5	91.4	65.5	78.8	54.5	67.3
14	2022	2020	11	HR	60.7	69.7	79.1	61.3	74.1	62.3	88.3	53.4	59.0	48.4	51.0
15	2022	2020	12	IT	65.0	63.2	68.1	58.7	80.5	76.6	84.6	59.5	57.7	61.4	59.3
16	2022	2020	13	CY	57.3	69.9	85.0	57.5	83.1	75.2	91.7	57.8	71.6	46.7	51.3
17	2022	2020	14	LV	61.4	74.2	89.9	61.3	69.4	60.0	80.3	47.7	61.1	37.2	65.8
18	2022	2020	15	LT	60.6	73.9	90.8	60.1	70.4	61.6	80.4	57.6	71.6	46.3	50.6
19	2022	2020	16	LU	73.5	76.3	84.7	68.7	92.6	98.0	87.5	68.9	86.1	55.2	69.1
20	2022	2020	17	HU	54.2	67.5	80.7	56.4	73.8	58.8	92.6	57.1	63.7	51.1	54.3
21	2022	2020	18	MT	65.6	77.0	81.2	73.0	83.6	78.8	88.6	65.2	68.2	62.3	64.2
22	2022	2020	19	NL	77.3	78.7	83.0	74.5	86.6	81.4	92.1	67.0	86.7	51.7	83.9
23	2022	2020	20	AT	68.8	77.2	83.0	71.7	87.5	82.5	92.8	64.0	72.7	56.4	61.2
24	2022	2020	21	PL	57.7	67.3	80.4	56.4	78.1	65.9	92.6	57.5	61.9	53.4	52.5
25	2022	2020	22	PT	62.8	73.4	87.8	61.4	74.7	63.1	88.4	56.7	63.2	50.9	47.5
26	2022	2020	23	RO	53.7	67.3	78.4	57.7	70.2	60.8	80.9	52.2	53.1	51.3	50.3
27	2022	2020	24	SI	67.5	73.4	87.3	61.7	83.9	71.8	98.0	56.0	68.2	46.0	72.9
28	2022	2020	25	SK	56.0	66.5	82.7	53.5	74.8	56.8	98.6	60.9	59.5	62.3	46.3
29	2022	2020	26	FI	75.4	75.4	89.7	63.4	87.5	80.2	95.4	61.5	83.8	45.1	77.4
30	2022	2020	27	SE	83.9	83.0	95.4	72.2	85.9	81.4	90.7	74.6	80.5	69.1	90.1

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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

A thematic map is a kind of map which depicts information on a particular topic or theme

We would like to build a thematic map for the 'Nobel Prize Awarded Woman' in collaboration with you

To do that, we just need to fulfill an online Excel file with some data...

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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

NAME:

Just write the name of the woman in the excel file, e.g.:

Marie Curie

You can access the full list of Nobel Prize Awarded Women at:

https://www.nobelprize.org/prizes/lists/nobel-prize-awarded-women/

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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

WIKIADRESS:

Look for the Wikipedia profile of the woman, copy the URL and paste it in the excel file, e.g.:

https://en.wikipedia.org/wiki/Marie_Curie

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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

WIKIPICTURE:

At the Wikipedia, copy/paste the complete URL of the given picture. Just put your mouse on top of the picture, then right click, and select 'copiar dirección de imagen', as seen in example. Then, you'll have to paste the copied link in the excel file, e.g.:

https://upload.wikimedia.org/wikipedia/commons/thumb/c/c8/Marie_Curie_c._1920s.jpg/440px-Marie_Curie_c._1920s.jpg

Just write the name of the woman in the excel file, e.g.:

Marie Curie

You can access the full list of Nobel Prize Awarded Women at:

https://www.nobelprize.org/prizes/lists/nobel-prize-awarded-women/

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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

BORNYEAR:

Write the year of birth of the woman in the excel file, e.g.:

1867

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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

BORNPLACE:

Write the place of birth (city, country) of the woman in the excel file, e.g.:

Warsaw, Poland

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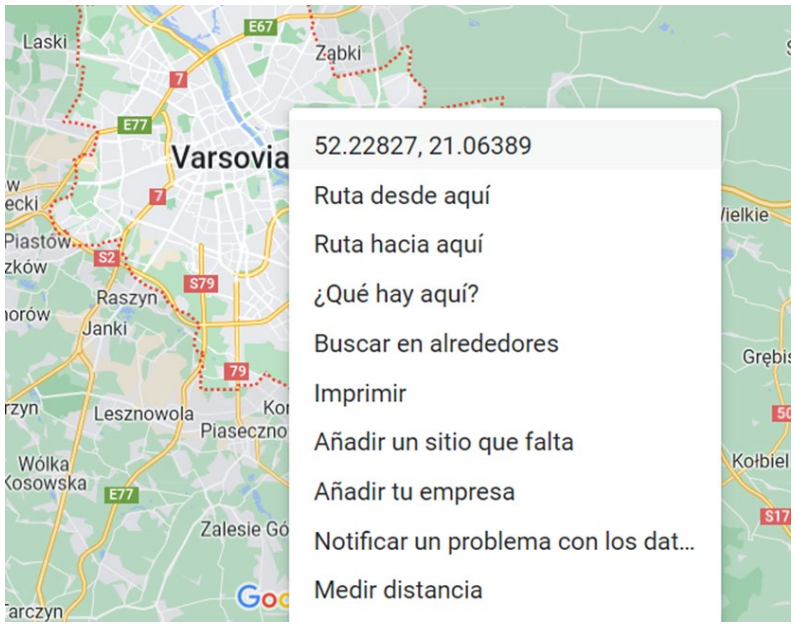
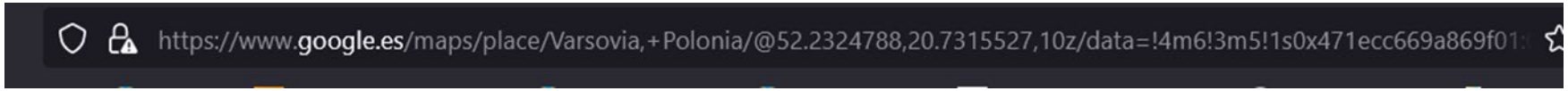
WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

IATBORN:

In Google Maps, search the place of birth, then right click, and select the first option (latitude and longitude numbers). Then, you'll have to paste the first number in the excel file, e.g.:

52.196217





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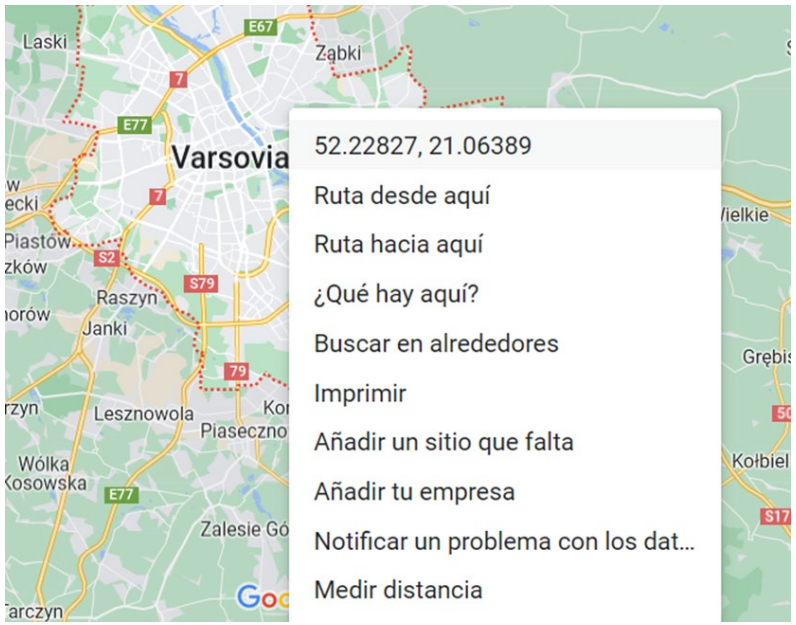
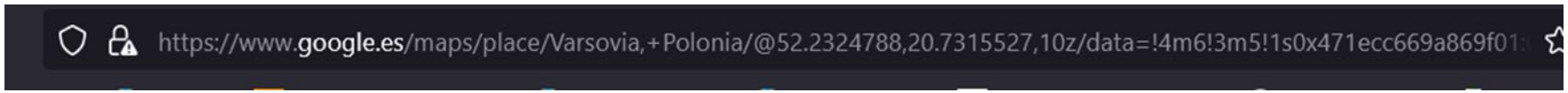
WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

IGBORN:

In Google Maps, search the place of birth, then right click, and select the first option (latitude and longitude numbers). Then, you'll have to paste the second number in the excel file, e.g.:

21.178225





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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

STUDYWORKPLACE:

Write the place of work (city, country) of the woman (at the time of being awarded) in the excel file, e.g.:

Warsaw, Poland

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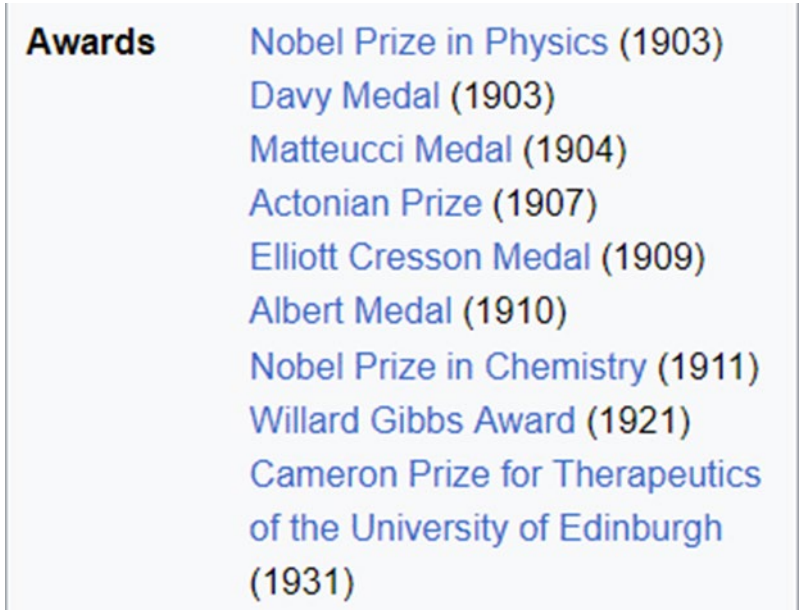
WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

PHYSICS, CHEMISTRY, PHYSIOLOGYORMEDICINE, LITERATURE, PEACE, ECONOMICSCIENCES

At the Wikipedia, identify on the “Award” field any category of Nobel Prize. Then, you'll have to paste year in the corresponding field of excel file.

Fill the empty cells with zeros (0)



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WORKSHOP: A THEMATIC MAP ON 'NOBEL PRIZE AWARDED WOMEN

Now it's time for you to collaborate in feeding the map with data. **Please, enter in the following link and follow the indications given by the teachers:**

https://docs.google.com/spreadsheets/d/1aFztOjNvzocxM-dRqnUWxG3ytGQnUOwHA0e6nOJW-XQ/edit?usp=drive_link

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RESULTS & DISCUSSION

Look at the map and comment on, e.g.:

Do you see any pattern that relates the place of birth and the place of work of the Nobel Prize-winning women?

Are all the EU countries well represented in relation to Nobel Prize-winning women?

Taking in consideration the EU gender equally index and the resulting map, do you think that woman might have more professional opportunities depending on the born place?

How would you improve/complete the map?

Are there other kind of thematic maps that could be useful to visualize gender inequalities?

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ONLINE QUESTIONNAIRE - POST

How much have you learned about data visualization during the workshop?... we'd like to know it...

Please, enter in the following link and fulfill the questionnaire:

https://forms.gle/jXyjJ8ciLWfDfJdU7

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THANKS FOR YOUR PARTICIPATION!

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