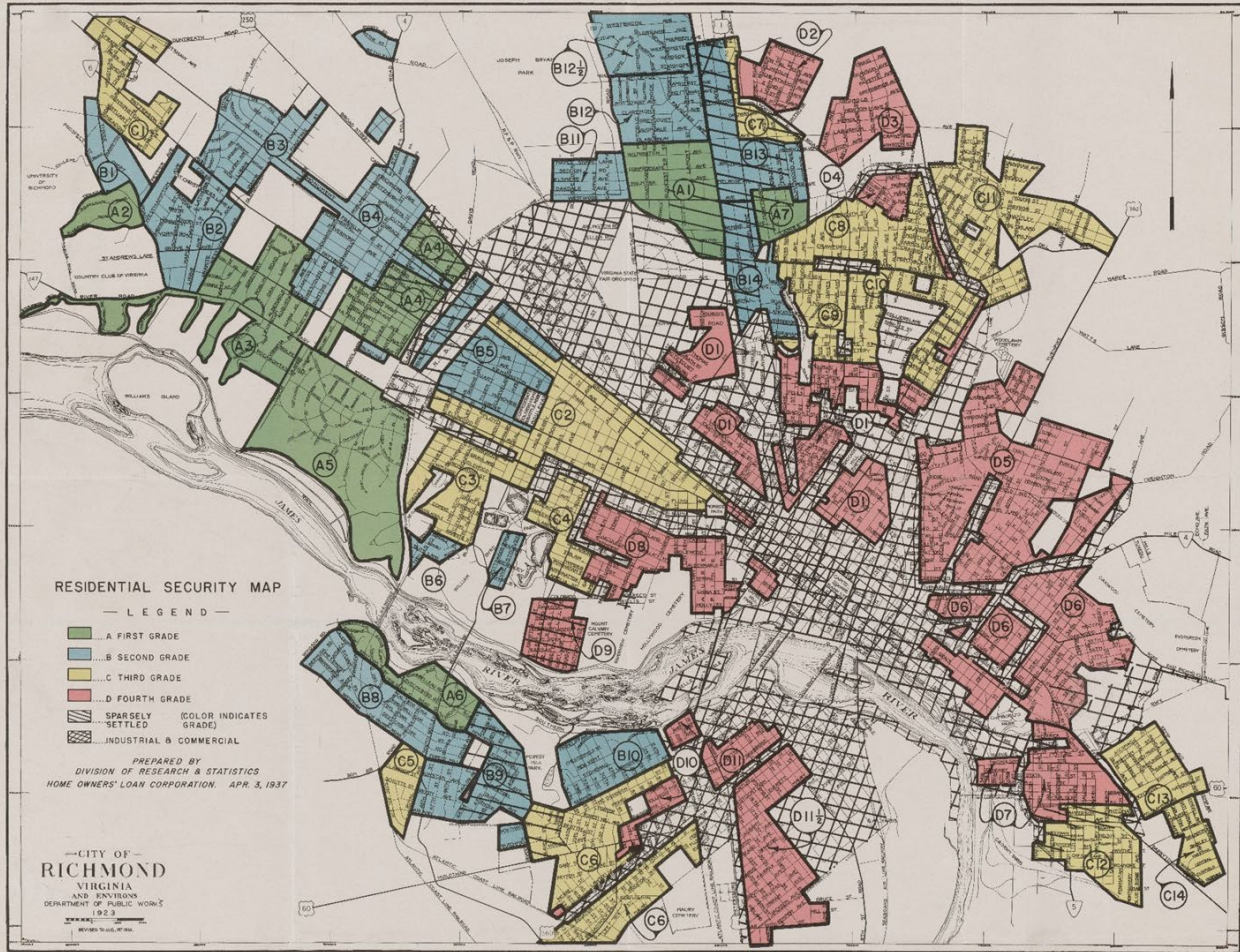




Do No Harm with Data Viz

Alice Feng
@fleecealeece



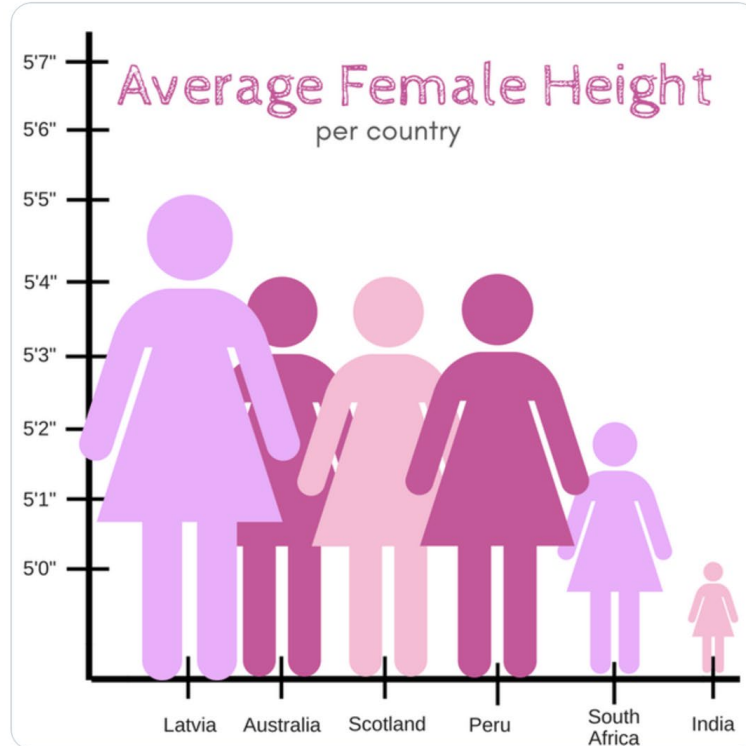


Sabah Ibrahim

@reina_sabah



As an Indian woman, I can confirm that too much of my time is spent hiding behind a rock praying the terrifying gang of international giant ladies and their Latvian general don't find me



“If I were one of the data points on this data visualization, would I feel offended?”

-Kim Bui

Using Language with an Equity Awareness

Using language with an equity awareness

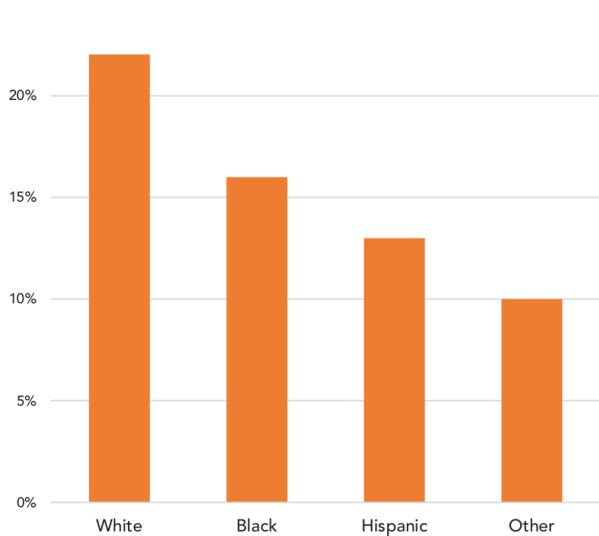
Does my title, annotations, notes, etc. explicitly **mention forces of oppression and historical context**?

Do my labels use **people-first language**?

Do my labels reflect the terms the community I'm visualizing **prefer**?

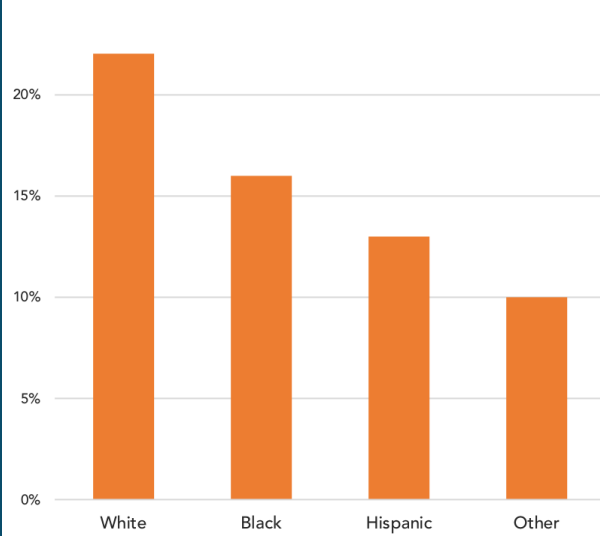
Mental Health in Jail

Rate of mental health diagnosis of inmates



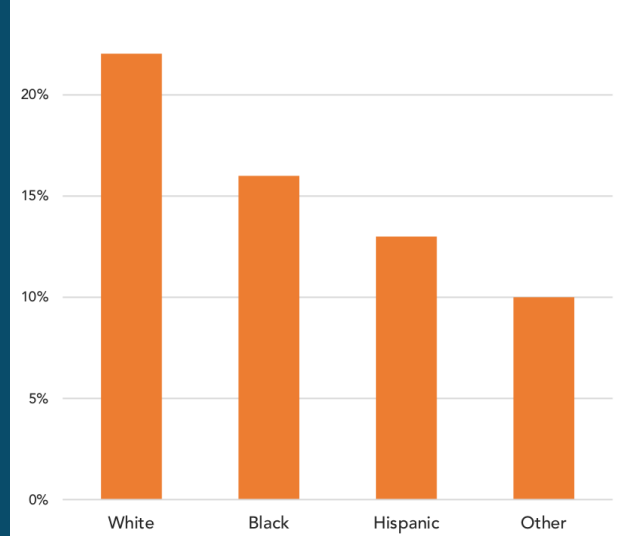
Racism in Jail

People of color less likely to get mental health diagnosis



Racism in Jail

White people get more mental health diagnoses



Ordering Data Purposefully

9. What is Person 1's race?

Mark one or more boxes **AND** print origins.

- White – Print, for example, German, Irish, English, Italian, Lebanese, Egyptian, etc. ↴

- Black or African Am. – Print, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc. ↴

- American Indian or Alaska Native – Print name of enrolled or principal tribe(s), for example, Navajo Nation, Blackfeet Tribe, Mayan, Aztec, Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, etc. ↴

- | | | |
|---------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Chinese | <input type="checkbox"/> Vietnamese | <input type="checkbox"/> Native Hawaiian |
| <input type="checkbox"/> Filipino | <input type="checkbox"/> Korean | <input type="checkbox"/> Samoan |
| <input type="checkbox"/> Asian Indian | <input type="checkbox"/> Japanese | <input type="checkbox"/> Chamorro |
| <input type="checkbox"/> Other Asian –
Print, for example,
Pakistani, Cambodian,
Hmong, etc. ↴ | | <input type="checkbox"/> Other Pacific Islander –
Print, for example,
Tongan, Fijian,
Marshallese, etc. ↴ |

- Some other race – Print race or origin. ↴

IN PERSON VERSION:

(SHOW CARD 20)

Please look at this card. Which of these categories do you feel best describe you: (white, black or African-American, Hispanic or Latino, Asian, American Indian or Alaska Native, Hawaiian Native or other Pacific Islander, or another race?)

TELEPHONE VERSION:

Which of these categories do you feel best describe you: white, black or African-American, Hispanic or Latino, Asian, American Indian or Alaska Native, Hawaiian Native or other Pacific Islander, or another race?

CODE ALL THAT APPLY: CODE RESPONSES IN THE ORDER THEY ARE GIVEN

1. *WHITE (INCLUDE MIDDLE EASTERN/ARAB WITH WHITE);
Caucasian
2. *BLACK/AFRICAN-AMERICAN
3. *HISPANIC/LATINO
4. *ASIAN
5. *AMERICAN INDIAN/ALASKA NATIVE
6. *NATIVE HAWAIIAN/PACIFIC ISLANDER
- 7. *OTHER
0. Inap. (/no further responses)

FOR THE PUBLIC DATA SET:

ONLY X6809 AND X6810 ARE INCLUDED.

FOR X6809, CODES 4, 5, AND 6 ARE

COMBINED WITH CODE -7.

IF AN ADDITIONAL RESPONSE WAS GIVEN IN X6810-X6814,

X6810 IS SET TO 1; OTHERWISE X6810 IS SET TO 5.

L7. What is your race? Are you white, black, American Indian, Alaska Native, Asian, Native Hawaiian or Other Pacific Islander?

- ENTER all that apply
- PROBE: Any others?
- If R says something not listed in response options, record under [7. Other] and list response verbatim at "specify screen"

1. White

2. Black, African-American, or Negro

3. American Indian or Alaska Native

4. Asian

5. Native Hawaiian or Pacific Islander

7. Some other race-specify

→ L7OS. Specify (String 500)

RACE

I am going to read you a list of five race categories. You may choose one or more races. For this survey, Hispanic origin is not a race. (Are/Is) (NAME/you) White; Black or African American; American Indian or Alaska Native; Asian; OR Native Hawaiian or Other Pacific Islander?

♦ Do not probe unless response is Hispanic or a Hispanic origin
Enter all that apply, separate with commas

- 1 White
- 2 Black or African American
- 3 American Indian or Alaska Native
- 4 Asian
- 5 Native Hawaiian or Other Pacific Islander
- 6 Other - DO NOT READ

Ordering data purposefully

Which group am I presenting first? Why?

Can my results be **ordered differently**?

- Does my study focus on a specific community?
- Is there a particular story or argument I am trying to tell?
- Is there a quantitative relationship (i.e., population size, effect size, etc) between groups? Can they be ordered alphabetically?

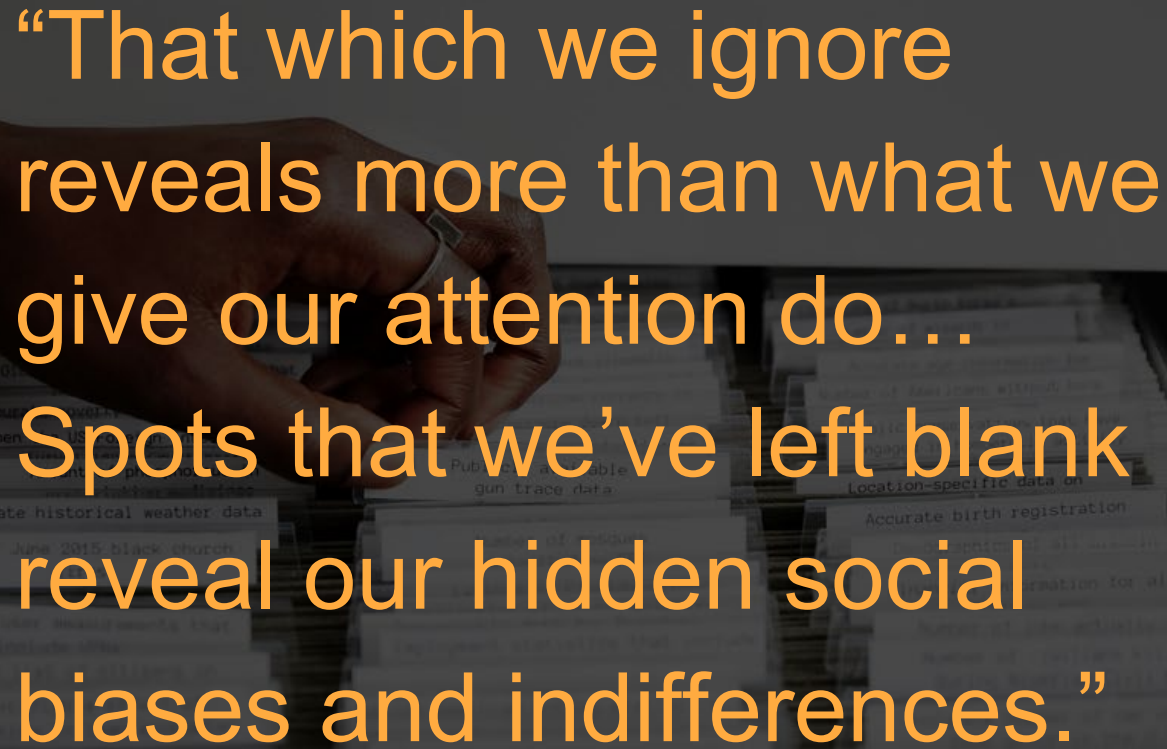
Considering the Missing Groups



Accurate poverty
When the US Foreign Inter
Amount of phosphorous in
Accurate historical weather data
Cause of June 2015 black church
fires

Publicly available
gun trace data
Number of mosques
Latino in Florida
Employment statistics that include
Frequency of economic
collapse

Number of wisard in
Accurate age information for
Number of Americans without bank
Public conservatives that have
engaged in homoerotic activity
Location-specific data on
Accurate birth registration
Demographics of all bitcoin
Financial information for all
Number of jobs actually lost
Number of civilians killed
during Nigerian Civil War
Accurate number of car crashes
that occur in the U.S.
Full details on net worldwide

A hand holding a pen is positioned over a filing cabinet. The cabinet's drawers are open, revealing numerous white labels with text. Some legible labels include "Accurate historical weather data", "Cause of 1915 black church", "Global web for", "Publicly available gun trace data", "Location-specific data on", and "Accurate birth registration". The background is a solid teal color.

“That which we ignore reveals more than what we give our attention do... Spots that we’ve left blank reveal our hidden social biases and indifferences.”

-Mimi Onuoha

Considering the missing groups

Who is missing from my data visualization?

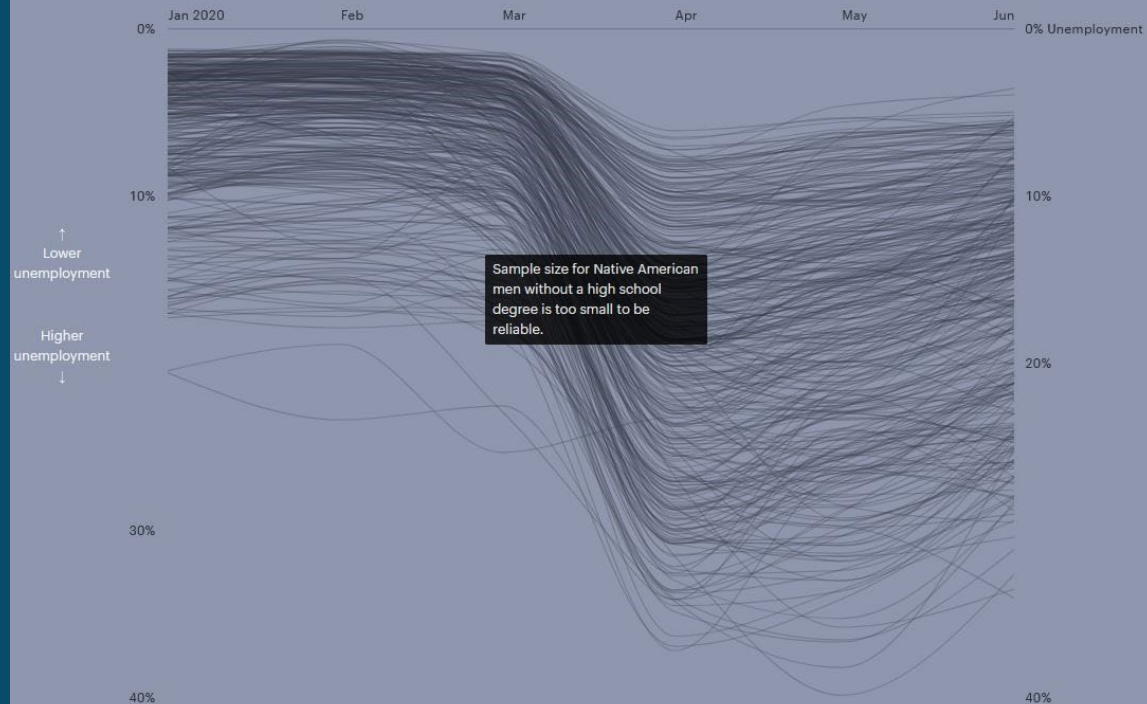
Does my data visualization **acknowledge** groups or communities that are missing?

Select up to three categories:

All races	All genders	All ages	All education levels	All income levels
Black	Men	Ages 15 to 24	No high school degree	Under \$25K
White	Women	Ages 25 to 54	High school degree	\$25K to \$75K
Hispanic/Latino		Age 55 and older	College degree	\$75K and over
Asian/Pacific Islander				
Native American				
Two or more races				

See unemployment rates for:

The last six months The last decade



Choosing colors and icons with
sensitivity and inclusiveness

Choosing colors and icons with a racial equity awareness

Do my colors and icons avoid reinforcing stereotypes and power hierarchies?

Do my icons and images show people as **empowered and dignified** rather than as helpless victims?



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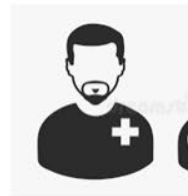
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thenounproject.com



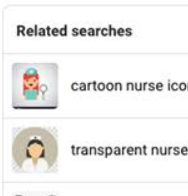
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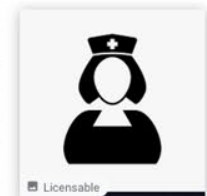
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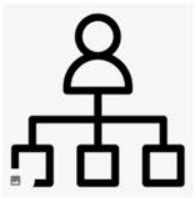




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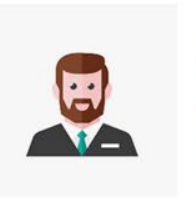
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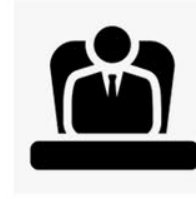
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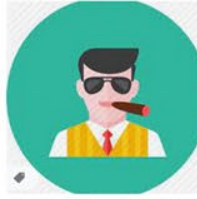
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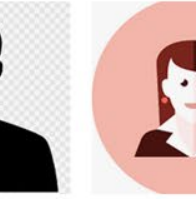
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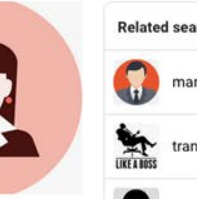
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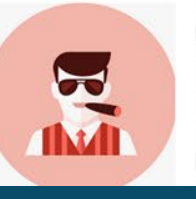
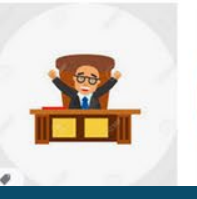
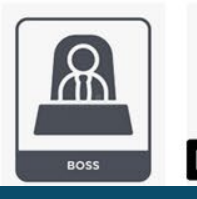
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Data viz is just one part of a
larger data ecosystem

Engaging lived experiences

Did my project **seek out and engage with community partners** to help me better understand the topic I am studying?

Is the community **seeing benefits** from the work I am doing? Do my goals align with theirs?

Were community members given an **opportunity to weigh in** on the design of the project?

Were final results **shared with the community first** before publication so they could provide feedback?

Examining the data behind the viz critically

How were these data **generated**?

Are these data **representative**?

Who is **included** and who is **excluded** from these data? Whose voices, lives, and experiences are missing?

Why were these data collected? Who stands to benefit?

Who might be **harmed** by the collection or publication of these data?

Embodying diversity and inclusivity in data teams and organizations

What is my identity as an **individual**?

What are the identities held in my **team**?

What is the identity of my **organization**?

Do no harm with data viz summary

Use language to provide framing and context

Order data purposefully

Consider who is missing and how to acknowledge that

Choose colors and icons that don't reinforce stereotypes

Engage lived experiences

Critically examine your data

Embody diversity and inclusivity in your teams and organizations