Welcome to the Data Visualization NY Meetup Group

Please be respectful to all members
This meeting is being recorded
Please use the chat window for Qs
Speaker will talk for ~40 minutes
See: Applying Racial Equity Awareness in Data Visualization

Image credit: Allison Feldman, Urban Institute,
https://apps.urban.org/features/2020-census/
My Lived Experience
“The HOLC created color-coded maps of every metropolitan area in the nation, with the safest neighborhoods colored green and the riskiest colored red.

-Richard Rothstein, *The Color of Law*

https://catalog.archives.gov/search?q=:*&f.parentNald=3620183&f.level=item&sort
=naldSort%20asc

“The HOLC created color-coded maps of every metropolitan area in the nation, with the safest neighborhoods colored green and the riskiest colored red. A neighborhood earned a red color if African Americans lived in it, even if it was a solid middle-class neighborhood of single-family homes.”

-Richard Rothstein, *The Color of Law*

https://catalog.archives.gov/search?q=*:*&f.parentNald=3620183&f.level=item&sort=naldSort%20asc

Using Language with a Racial Equity Awareness
Disability language is never straightforward. It’s always nuanced. It always evolves.

- Nicholas Steenhout, *Part of a Whole*

https://incl.ca/disability-language-is-a-nuanced-thing/
Poverty is an experience, not a static description.
**Black** references skin color, not people.

More Black

More Poverty
Larger Proportion of the Black Population

Larger Proportion of People in Poverty
This concert is free with Garden Admission (or annual pass):

children, ages 6 to 17   $3
adults, ages 18 to 54    $6
super adults, ages 55+   $3

Children under age 6 are free.
One-third who have heard of the term Latinx say it should be used to describe the U.S. Hispanic or Latino population...

Among respondents who have heard of Latinx, % saying...

- Latinx should be used to describe the Hispanic or Latino population
  - 33%

- Latinx should not be used to describe the Hispanic or Latino population
  - 65%

Ordering Labels in a Purposeful Way


### Decennial Census

#### Question 9: What is Person Y’s race?

Mark X, one or more boxes AND print origins.

<table>
<thead>
<tr>
<th>Race Options</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>White - Print, for example, German, Irish, English, Italian, Lebanese, Egyptian, etc.</td>
<td></td>
</tr>
<tr>
<td>Black or African Am. - Print, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somalian, etc.</td>
<td></td>
</tr>
<tr>
<td>American Indian or Alaska Native - Print name of enrolled or American Indian or Alaska Native, for example, Native Hawaiian, Micronesian, Inupiat, Navajo, Hopi, etc.</td>
<td>Traditional government, Native Alaskan Community, etc.</td>
</tr>
<tr>
<td>Chinese</td>
<td></td>
</tr>
<tr>
<td>Filipino</td>
<td></td>
</tr>
<tr>
<td>Japanese</td>
<td></td>
</tr>
<tr>
<td>Other Asian - Print, for example, Pakistani, Cambodian, Hmong, etc.</td>
<td></td>
</tr>
<tr>
<td>Some other race - Print race or origin</td>
<td></td>
</tr>
</tbody>
</table>

For more information, visit:
- [Large Print-Guide.pdf](https://2020census.gov/content/dam/2020census/materials/languages/guides/Large_Print-Guide.pdf)
- [Decennial Census Technical Documentation](https://www.census.gov/programs-surveys/decennial-census/technical-documentation/questionnaires/2020.html)
Current Population Survey

**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

[https://www2.census.gov/programs-surveys/cps/techdocs/questionnaires/Demographics.pdf](https://www2.census.gov/programs-surveys/cps/techdocs/questionnaires/Demographics.pdf)
Enter your best guess as to the Race of the reference person.

ENTER ALL THAT APPLY
ENTER (N) FOR NO MORE
RE-ENTER PRECODE TO DELETE

[if $i eq <1>]X [else] [endif](1) White
[if $2 eq <2>]X [else] [endif](2) Black/African American
[if $3 eq <3>]X [else] [endif](3) American Indian or Alaska Native
[if $4 eq <4>]X [else] [endif](4) Asian
[if $5 eq <5>]X [else] [endif](5) Native Hawaiian or Other Pacific Islander
[if $6 eq <6>]X [else] [endif](6) Other
[if $7 eq <D>]X [else] [endif](D) Don't Know

https://www2.census.gov/programs-surveys/sipp/questionnaires/2008/sipp-2008-panel-wave-16-core-questionnaire.pdf
Survey of Consumer Finances

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 your
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. *HAWAIIAN/PACIFIC ISLANDER
7. *OTHER
0. *No Resp. (no further responses)
******************************************************************************

FOR THE PUBLIC DATA SET:
ONLY $6009 AND $6010 ARE INCLUDED.
FOR $6010, CODES 6, 7, AND 5 ARE
COMBINED WITH CODE 7.
IF AN ADDITIONAL RESPONSE WAS GIVEN IN D6010-D6014,
D6010 IS SET TO 1; OTHERWISE D6010 IS SET TO 5.
******************************************************************************
Panel Study of Income Dynamics

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) |

### Consumer Expenditure Survey

<table>
<thead>
<tr>
<th>RACETYP</th>
<th>The items below are required information for all TYPE A cases.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Race code</strong></td>
</tr>
<tr>
<td></td>
<td>1. White</td>
</tr>
<tr>
<td></td>
<td>2. Black or African American</td>
</tr>
<tr>
<td></td>
<td>3. American Indian or Alaska native</td>
</tr>
<tr>
<td></td>
<td>4. Asian</td>
</tr>
<tr>
<td></td>
<td>5. Native Hawaiian</td>
</tr>
<tr>
<td></td>
<td>6. Guamanian or Chamorro</td>
</tr>
<tr>
<td></td>
<td>7. Samoan</td>
</tr>
<tr>
<td></td>
<td>8. Other Pacific Islander</td>
</tr>
<tr>
<td></td>
<td>9. Other</td>
</tr>
</tbody>
</table>

Current Population Survey

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
Enter your best guess as to the Race of the reference person.

ENTER ALL THAT APPLY
ENTER (N) FOR NO MORE
RE-ENTER PRECODE TO DELETE

| [if $1 eq <1>]X [else] [endif](1) | White |
| [if $2 eq <2>]X [else] [endif](2) | Black/African American |
| [if $3 eq <3>]X [else] [endif](3) | American Indian or Alaska Native |
| [if $4 eq <4>]X [else] [endif](4) | Asian |
| [if $5 eq <5>]X [else] [endif](5) | Native Hawaiian or Other Pacific Islander |
| [if $6 eq <6>]X [else] [endif](6) | Other |
| [if $7 eq <7>]X [else] [endif](D) | Don't Know |

https://www2.census.gov/programs-surveys/sipp/questionnaires/2008/sipp-2008-panel-wave-16-core-questionnaire.pdf
Survey of Consumer Finances

IN PERSON VERSION:
(SHOW CARD 20)
Please look at this card. Which of these categories do you feel best describe your (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 your: 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 EASTEN/ARAB WITH WHITE)
2. *BLACK/AFRICAN-AMERICAN
3. *HISPANIC/LATINO
4. *ASIAN
5. *AMERICAN INDIAN/ALASKA NATIVE
6. *HAWAIIAN/PACIFIC ISLANDER
-7. OTHER
0. Tap. (/no further responses)

*******************************************************************************
FOR THE PUBLIC DATA SET:
ONLY X8109 AND X8110 ARE INCLUDED.
FOR X8110, CODE 4, 5, AND 6 ARE COMBINED WITH CODE 7.
IF AN ADDITIONAL RESPONSE WAS GIVEN IN X8110-X8114, X8110 IS SET TO 1; OTHERWISE X8110 IS SET TO 5.
*******************************************************************************

Panel Study of Income Dynamics

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"

<table>
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<tr>
<th>1. White</th>
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<tr>
<td>3. American Indian or Alaska Native</td>
<td>4. Asian</td>
</tr>
<tr>
<td>5. Native Hawaiian or Pacific Islander</td>
<td>7. Some other race-specify         → L7OS. Specify (String 500)</td>
</tr>
</tbody>
</table>
Consumer Expenditure Survey

RACETYP

The items below are required information for all TYPE A cases.

Race code

1. White
2. Black or African American
3. American Indian or Alaska native
4. Asian
5. Native Hawaiian
6. Guamanian or Chamorro
7. Samoan
8. Other Pacific Islander
9. Other


Harvard
Decennial Census

9. What is Person X’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 American Indian Tribal, for example, Chickasaw Nation, Seminole Tribe, Wampanoag Tribe, Traditional government, Navajo, Eskimo Community, etc. [ ]
- [ ] Chinese [ ] Vietnamese [ ] Other [ ]
- [ ] Filipinos [ ] Korean [ ] Samoan [ ]
- [ ] Asian Indian [ ] Japanese [ ] Chamorros [ ]
- [ ] Other race – Print, for example, Philippine, Cambodian, Korean, etc. [ ]
- [ ] Some other race – Print race or origin. [ ]

https://2020census.gov/content/dam/2020census/materials/languages/guides/Large_Print-Guide.pdf
https://www.pewresearch.org/interactives/what-census-calls-us/
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Does your study focus on a particular community? If it does, that group should be presented first.
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Is there a particular argument or story you are trying to tell? If so, the order or presentation of results should reflect that argument.
Does your study focus on a particular community? If it does, that group should be presented first.

Is there a particular argument or story you are trying to tell? If so, the order or presentation of results should reflect that argument.

Is there a quantitative relationship that can guide how the groups are ordered? Can they be sorted alphabetically or by population size, sample size, or magnitude or effect of the results?
Considering Missing Groups
Gender is not binary.
other  adjective

Definition of other (Entry 1 of 5)
1  a : being the one (as of two or more) remaining or not included  
   // held on with one hand and waved with the other one
   b : being the one or ones distinct from that or those first mentioned or implied  
   // taller than the other boys
   c : SECOND  
   // every other stay
2  : not the same : DIFFERENT  
   // any other color would have been better  
   // something other than it seems to be
3  : ADDITIONAL  
   // sold in the U.S. and 14 other countries
4  a : recently past  
   // the other evening
   b : FORMER  
   // in other times
5  : discursively or threateningly different : ALIEN, EXOTIC

https://www.merriam-webster.com/dictionary/other
other  adjective

Definition of other (Entry 1 of 5)

1  a : being the one (of two or more) remaining or not included
   // held one with one hand and waved with the other one
   b : being the one or ones distinct from that or those first mentioned or implied
   // taller than the other boy
   c : SECOND
   // every other day

2  : not the same : DIFFERENT
   // any other color would have been better
   // something other than it seems to be

3  : ADDITIONAL
   // sold in the U.S. and 14 other countries

4  a : recently past
   // the other evening
   b : FORMER
   // in other times

5  : distastefully or threateningly different : ALIEN, EXOTIC

https://www.merriam-webster.com/dictionary/other
Using Colors with a Racial Equity Awareness
http://ir.mit.edu/diversity-dashboard/
http://ir.mit.edu/diversity-dashboard/
http://ir.mit.edu/diversity-dashboard/
Using Icons and Shapes with a Racial Equity Awareness
https://twitter.com/reina_sabah/status/1291509085855260672
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.

https://twitter.com/reina_sabah/status/1291509085855260672
Demonstrating Empathy
Approaching stories—and people—with more empathy creates better relationships with marginalised communities, builds trust and increases diverse coverage.

- Kim Bui, DataJournalism.com

Particular chart types lend themselves to more of a human connection than others.
Particular chart types lend themselves to more of a human connection than others.

Engaging or Reflecting Lived Experiences
Photo by Brandon Jacoby on Unsplash
Are we using language consistent with how people refer to themselves and others?

Photo by Brandon Jacoby on Unsplash
What have we missed in our visuals that are inconsistent within a racial equity framework?

Photo by Brandon Jacoby on Unsplash
How can we take a more empathetic approach to creating data visualizations that accurately and respectfully account for other people’s lived experiences?

Photo by Brandon Jacoby on Unsplash
Considering Groups & Teams
The human impulse to create hierarchies runs across societies and cultures, predates the idea of race, and thus is farther reaching, deeper, and older than raw racism and the comparatively new division of humans by skin color.

- Isabel Wilkerson, *Caste: The Origins of Our Discontents*
Data are a reflection of the lives of real people, not just a sterile abstraction.
Further Reading

- Kendi, Ibram. How to be an Antiracist. https://amzn.to/2YdxKEE.
- Norris, Zach. We Keep Us Safe: Building Secure, Just, and Inclusive Communities. https://amzn.to/2QhVYpE.

- Updated PolicyViz Amazon Shop

- Books by Jonathan Schwabish:
  - Better Presentations: A Guide for Scholars, Researchers, and Wonks
  - Elevate the Debate: A Mathematically Approach to Communicating Your Data