

Past Final Project Critiques

DSC 106: Data Visualization

Sam Lau (and special guest Ben Smarr!)

UC San Diego

Announcements

Lab 8 due Friday.

Final Project Prototypes due next Tuesday.

FAQs:

1.

Best Project 2 Awards

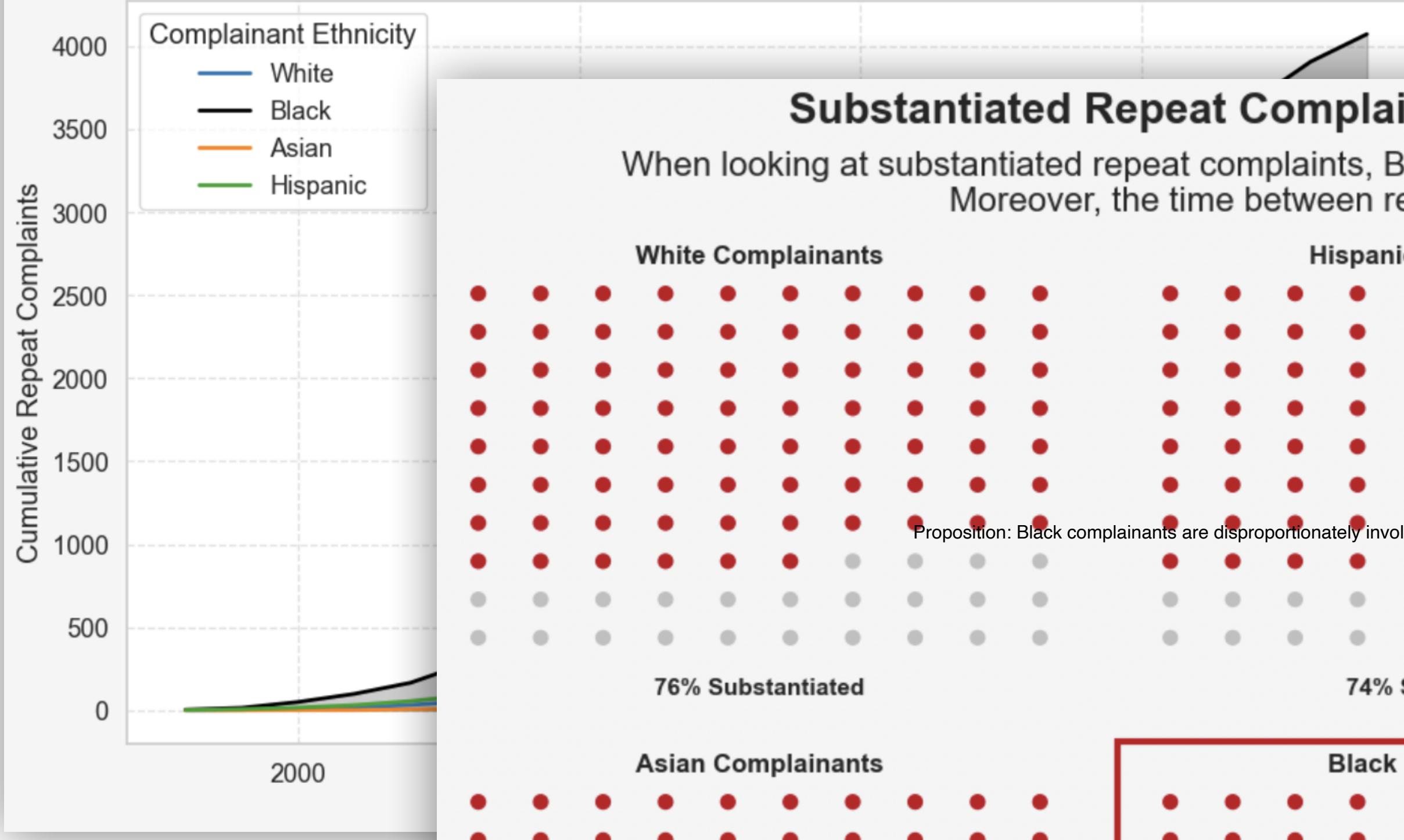
Given to top 5% of project submissions

Include this on your resume!

Black Complainants Stand Out in Patterns of Repeat Police Misconduct

Black civilians are disproportionately represented in repeat complaints against officers. Their reporting rate is the highest among all groups and continues to rise over time.

Black Complainants Drive Repeat Misconduct Trends



Black Complainants Are Most Likely to File Repeat Reports



Substantiated Repeat Complaints Are Least Likely to Involve Black Civilians

When looking at substantiated repeat complaints, Black civilians are the least represented compared to other ethnic groups. Moreover, the time between repeat complaints is highest for Black complainants.

White Complainants

Hispanic Complainants

76% Substantiated

74% Substantiated

Asian Complainants

Black Complainants

73% Substantiated

72% Substantiated

Proposition: Black complainants are disproportionately involved in repeat incidents with the same police officers.

Average Time Between Repeat Complaints

Black

Hispanic

White

Asian

2.3 years longer than average!

Avg. (Others)

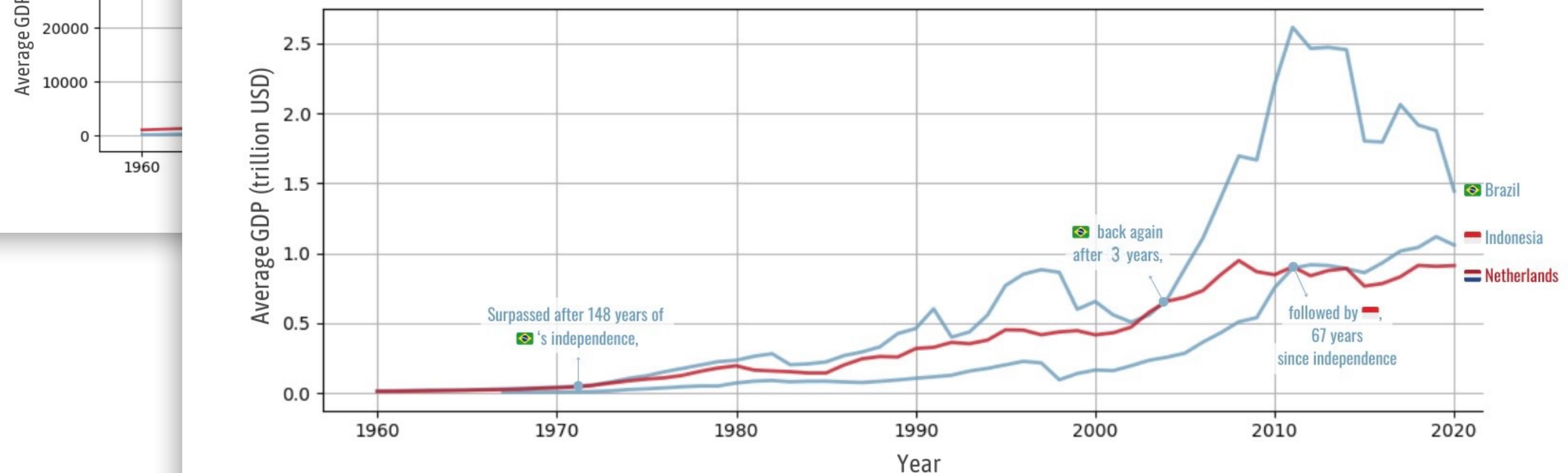
Years Between Complaints

Beyond Independence: A Growing Divide

Indonesia and Brazil's GDP per capita remains far below that of their former colonizer, the Netherlands

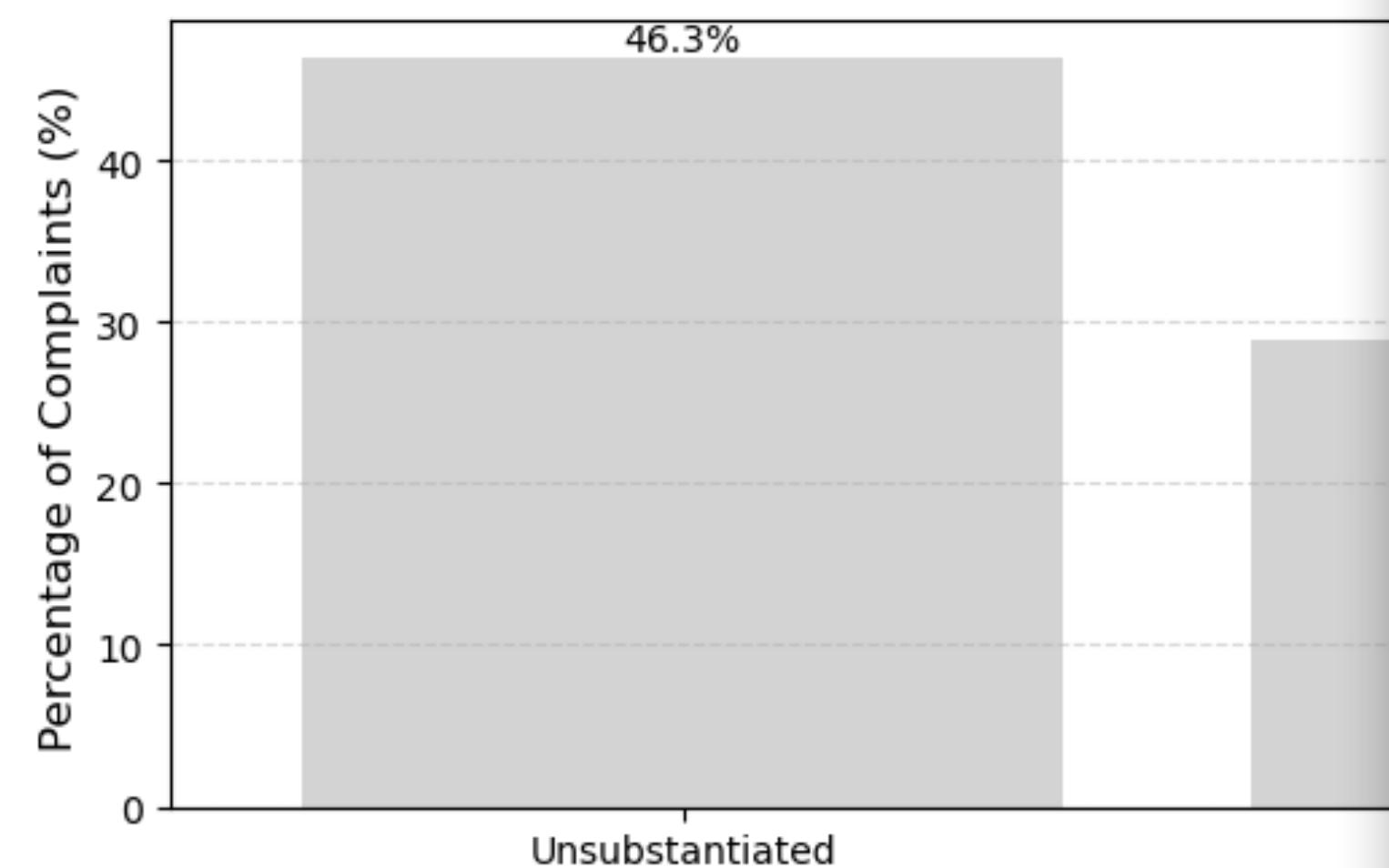
COLONIZED, NOW CAPITALIZED

Indonesia & Brazil – previously Netherlands' colonies – now outpace economically

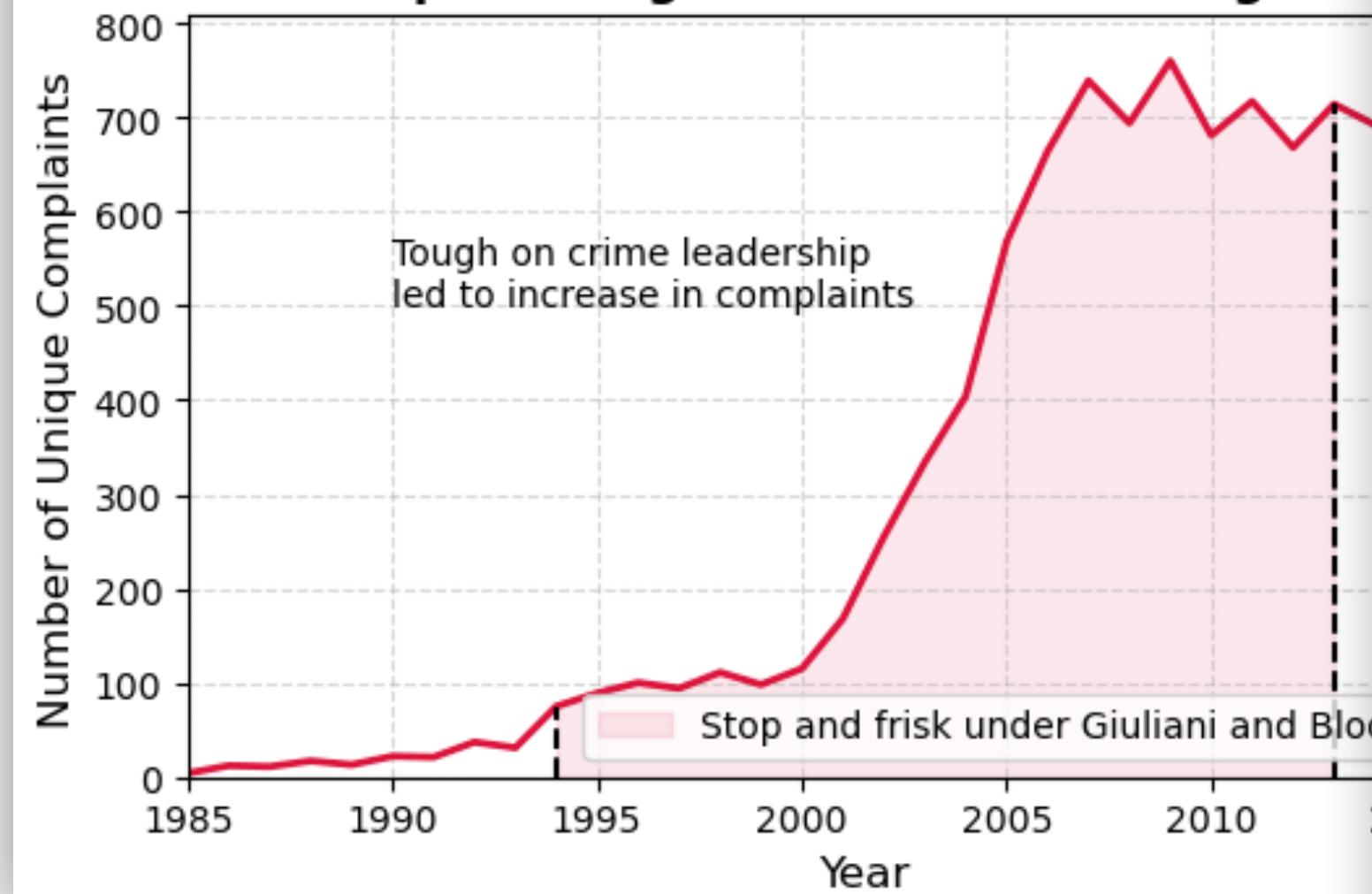


NYPD: A Mast

Low substantiation and exoneration rates indicate a lack of accountability.

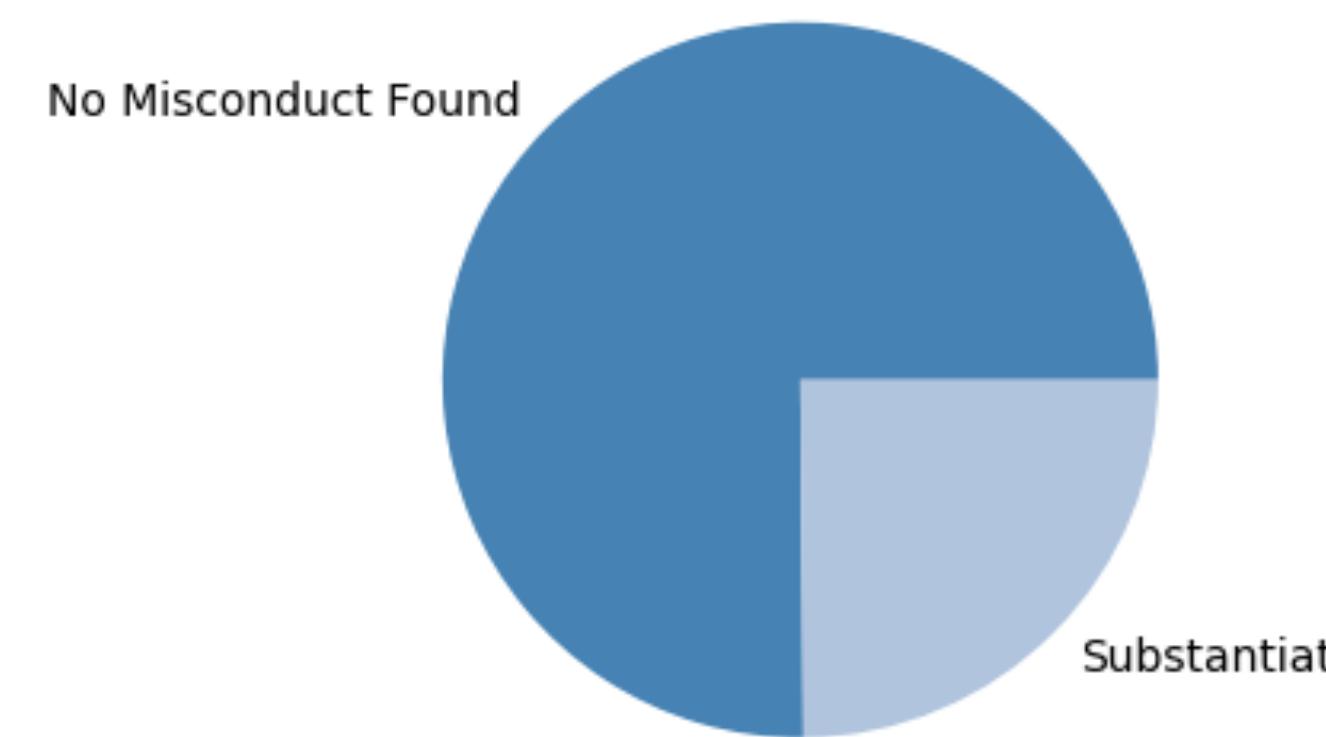


Civilian Complaints Against NYPD Have Surged Since 1990



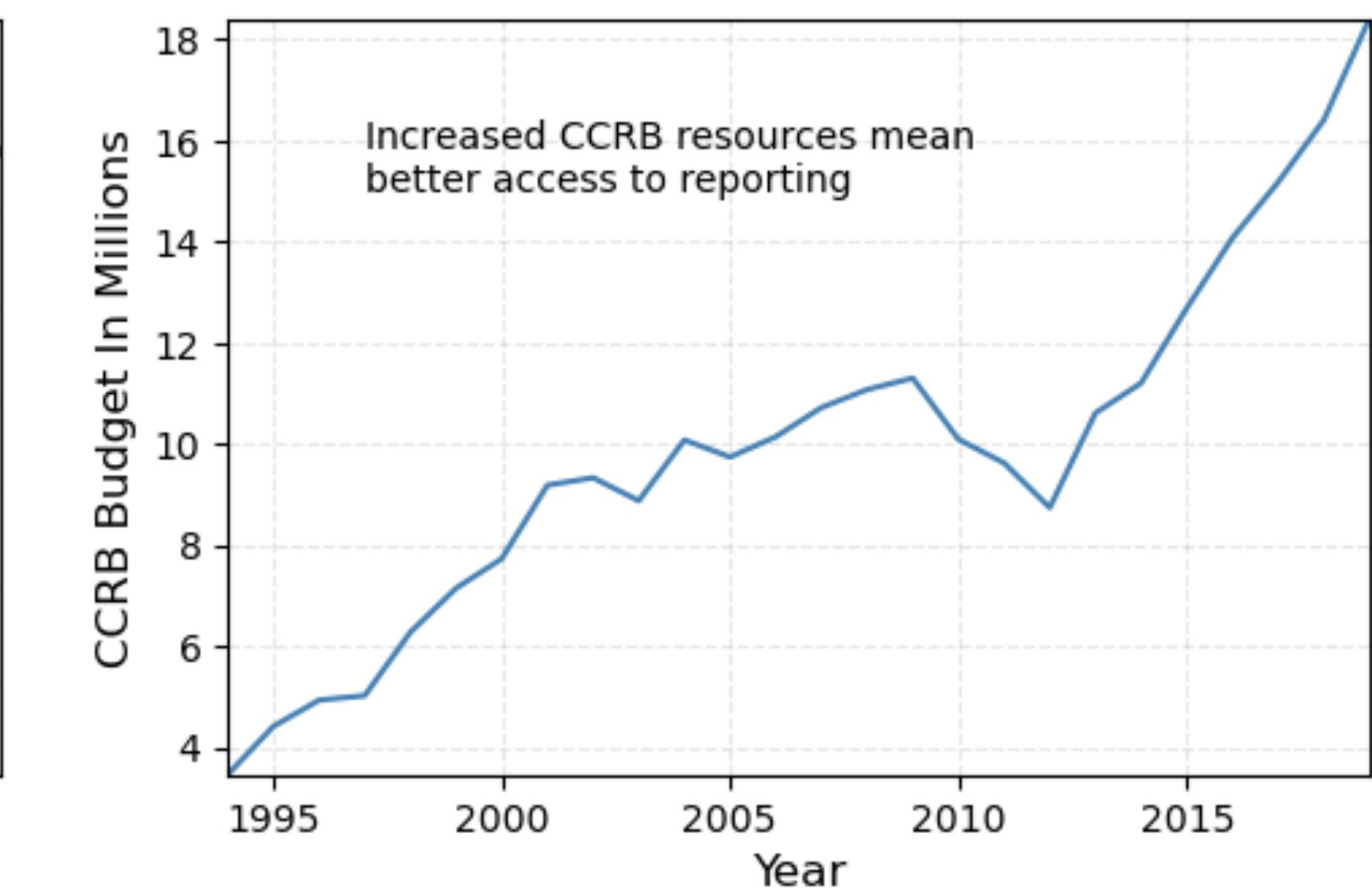
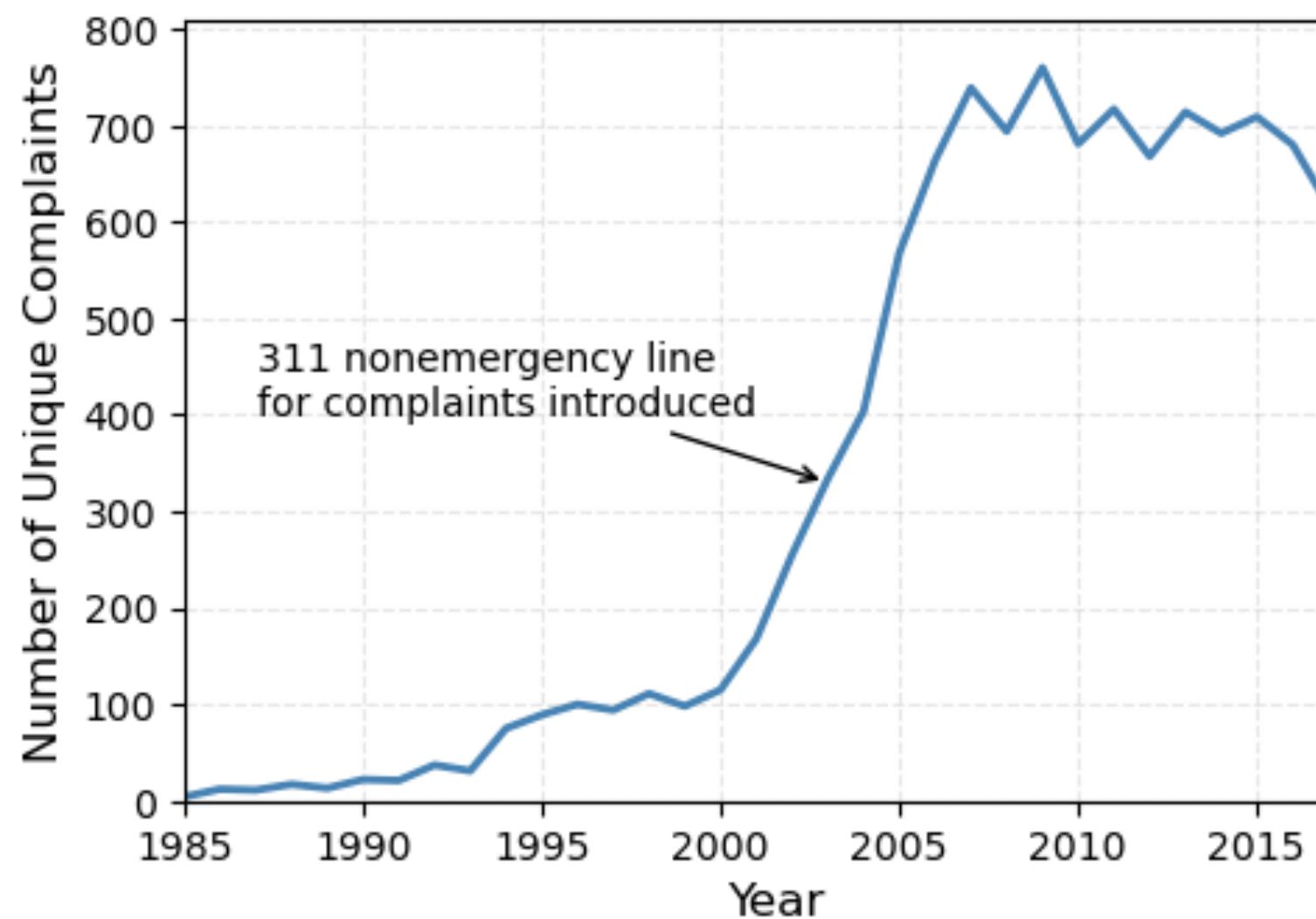
Boys In Blue On Good Behavior

Most Complaints Show No Wrongdoing



Mo' Money Mo' Problems

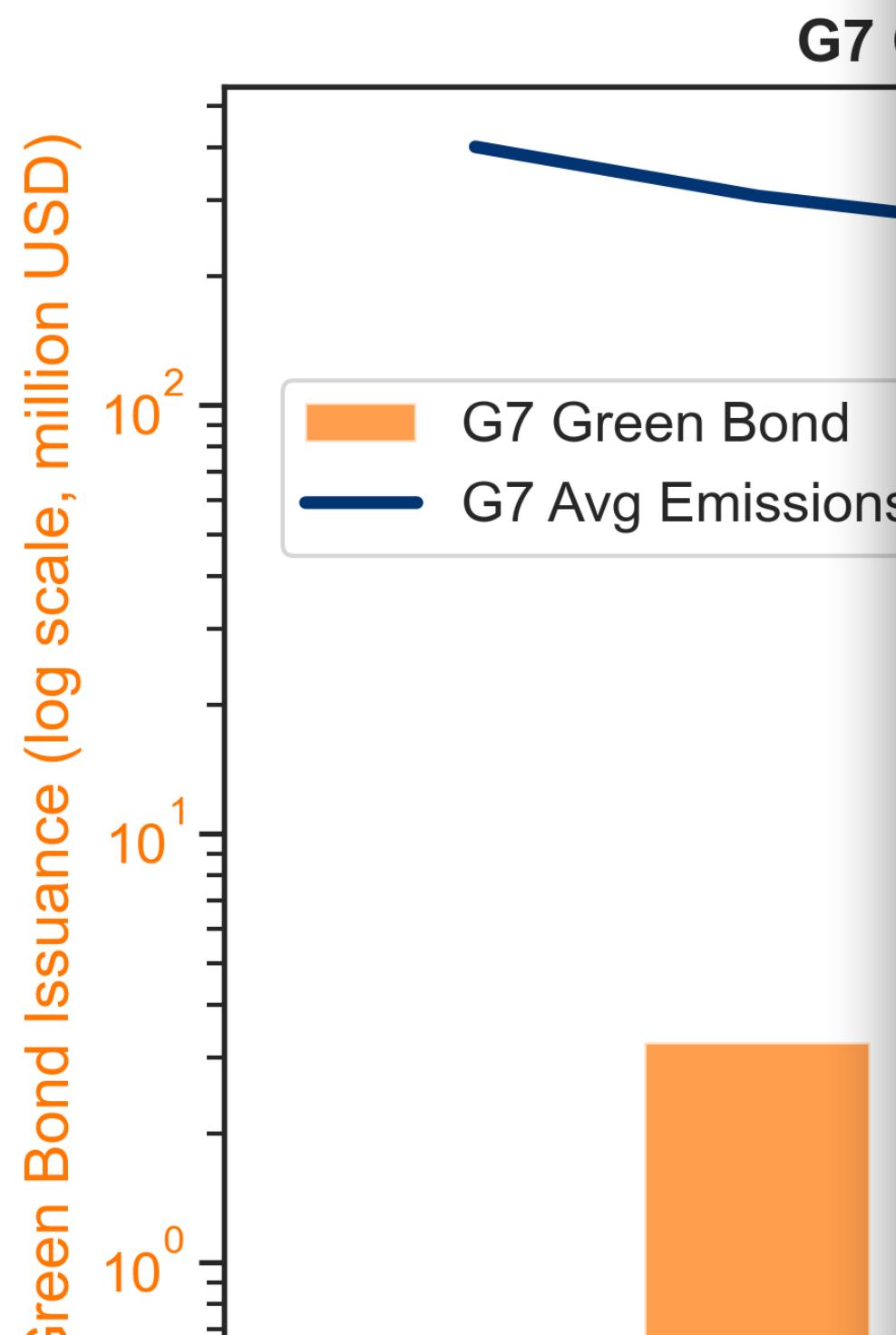
NYPD Complaints Increase Alongside CCRB Budget And Reporting Access



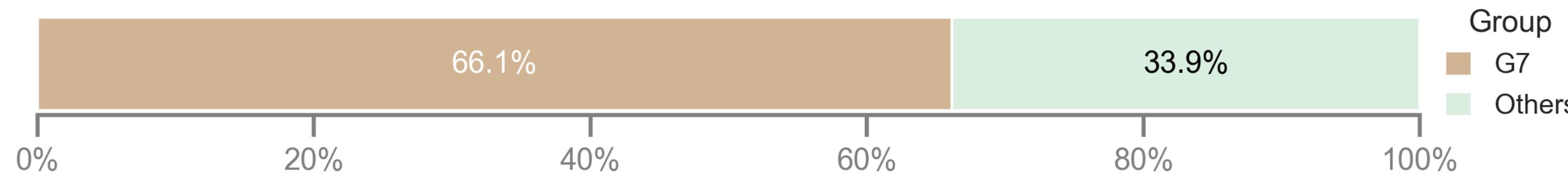
Leading the Fight or Leading the Emissions?

Wealthy nations are not truly leading the fight against climate change, as they bear the highest historical emissions while continuing to outsource carbon through trade.

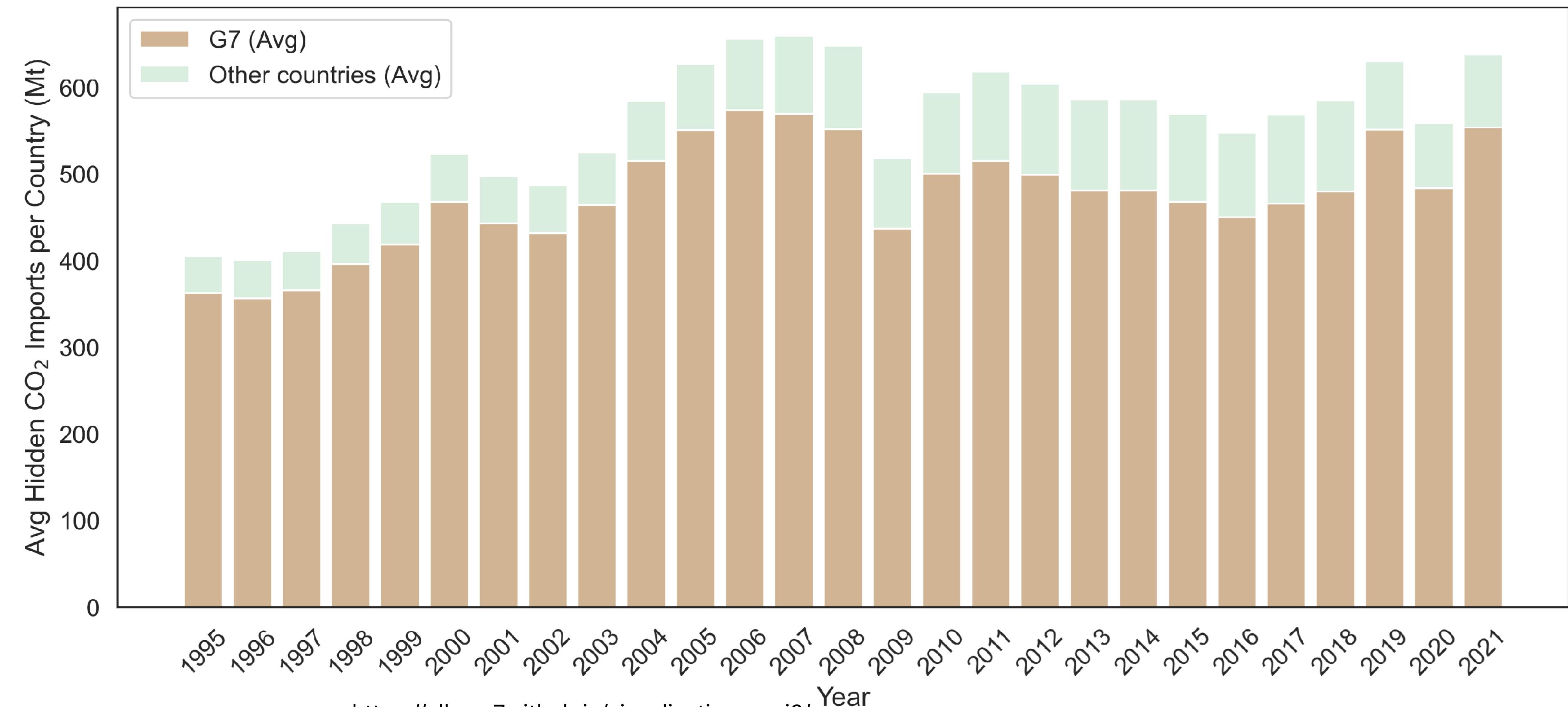
Wealthy Nations Are Leading



Proportion of Avg Cumulative CO₂ Emissions per Country (1970–2023)



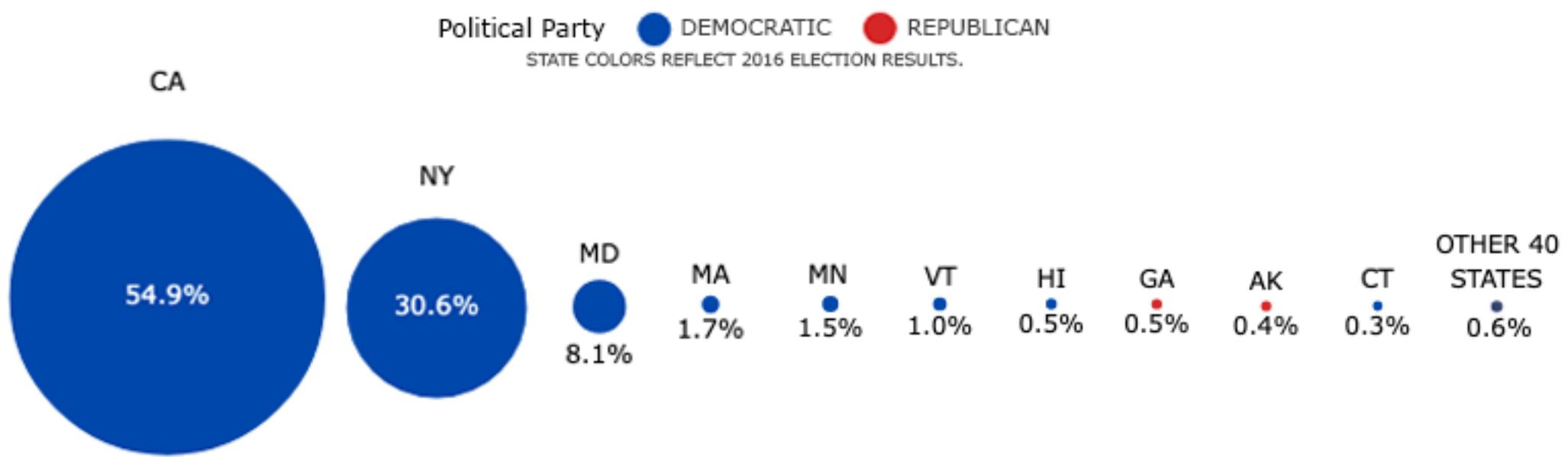
Avg Annual Hidden CO₂ Imports per Country: G7 vs Others



Democrats Readily Fund Teen Pregnancies and Abortions

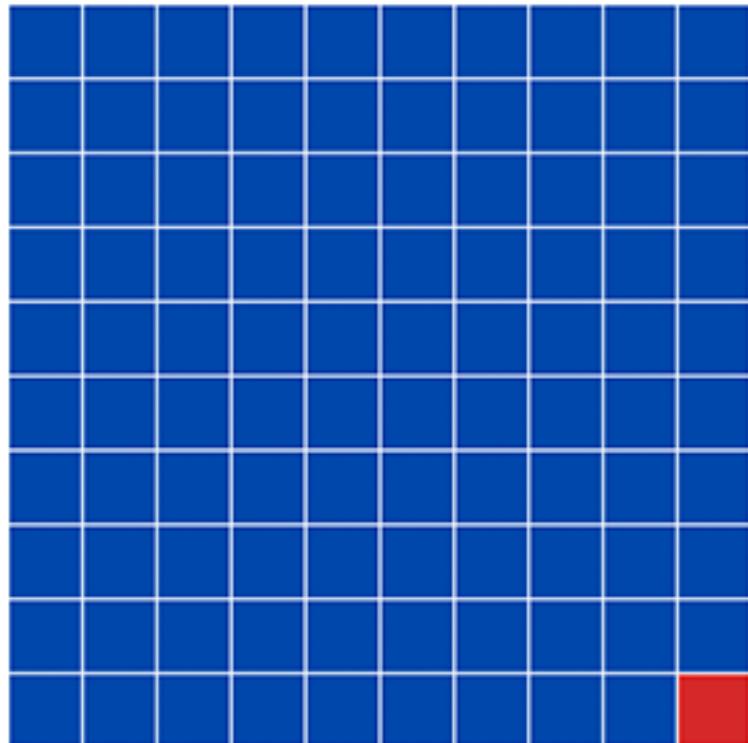
Share of National Abortion Budget Spent on Teens (Ages 15-17)

In 2017, U.S. states reported a total of 17,600 abortions among girls ages 15-17. During this year, the states allocated a total of \$17 million towards teen procedures. Which states overwhelming funded procedures for this young demographic nationwide?



The greatest spender on teen abortions is Democratic California. The state allocated \$9 million to teen abortions alone.

Fundings for Teen Cases by Political Party



Ultimately, Republican states only provided 1% of the national budget to teen abortions.

Meanwhile, Democratic states greatly contributed 99% of the budget to these cases.

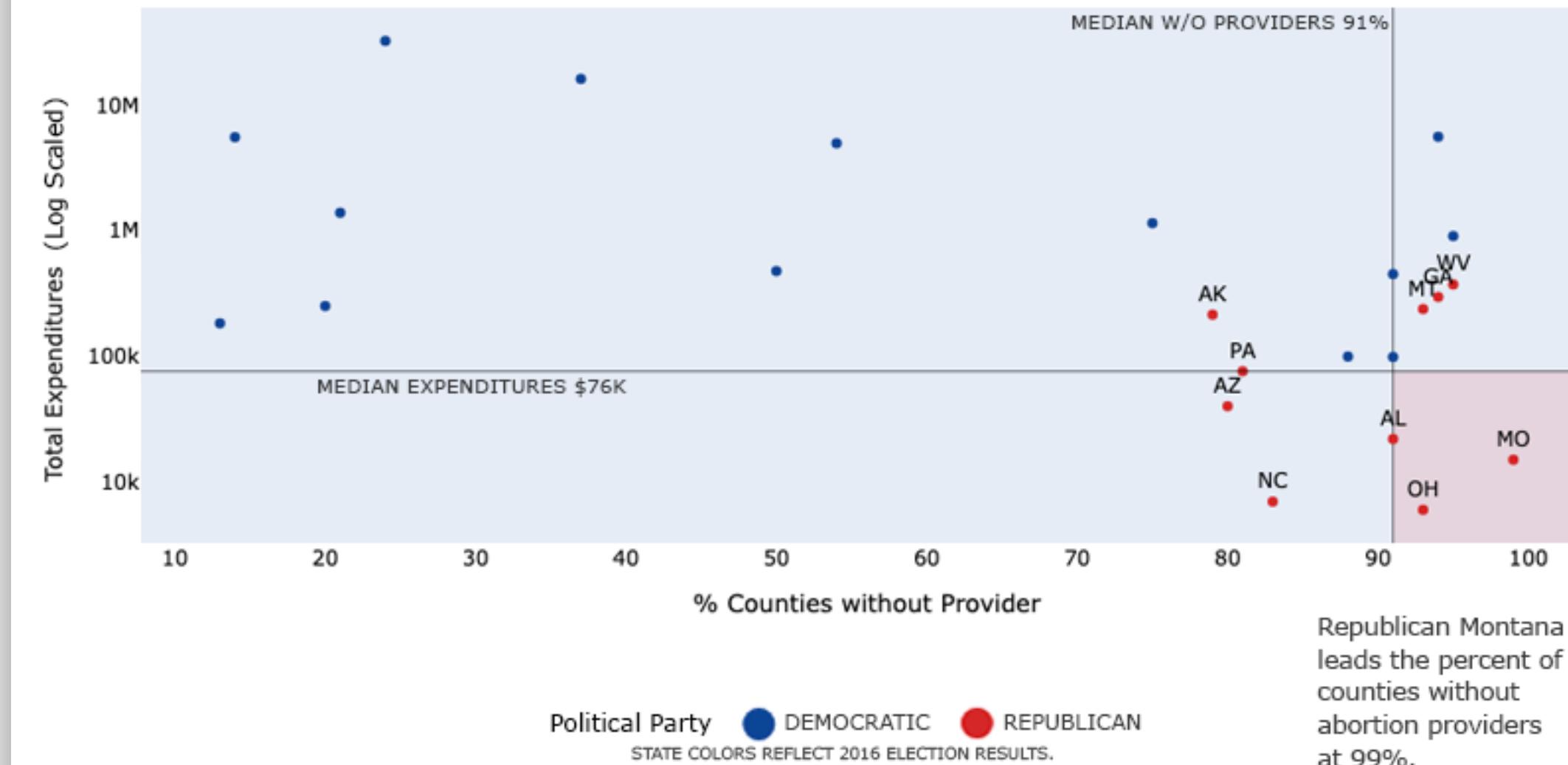
Republicans Underprovide Healthcare Services

State-Level Abortion Funding Relative to County-Level Provider Gaps

During this year, U.S. states allocated a total of \$17 million towards teen procedures. Republican states only provided 1% of that budget, reflecting significant trends in their abortion services overall.

While Democratic states have only several counties without abortion providers and relatively high fundings...

...Republican states increasingly lack abortion providers and insufficiently fund healthcare services.

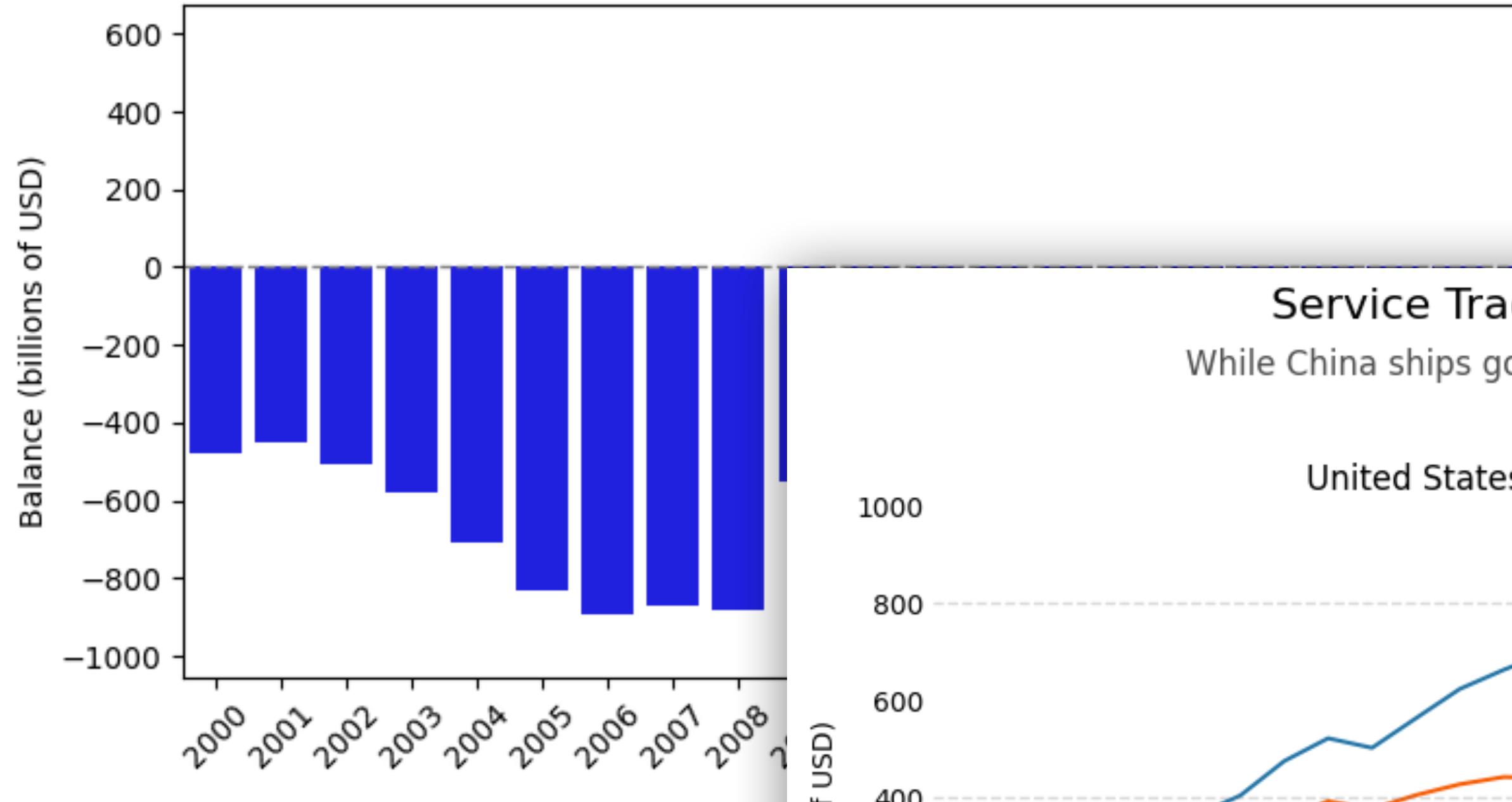


Republican Montana leads the percent of counties without abortion providers at 99%.

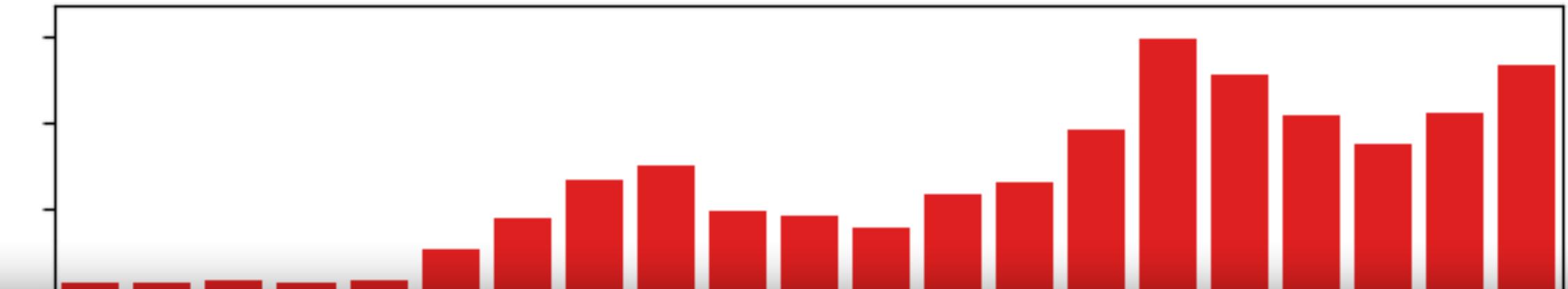
Merchandising Trade Balance Comparison: U.S. vs China (2000-2020)

How Unfair Trade Practices Shaped the Increasing Divergence in Trade Balance Between the U.S. and China

United States Merchandise Trade Balance



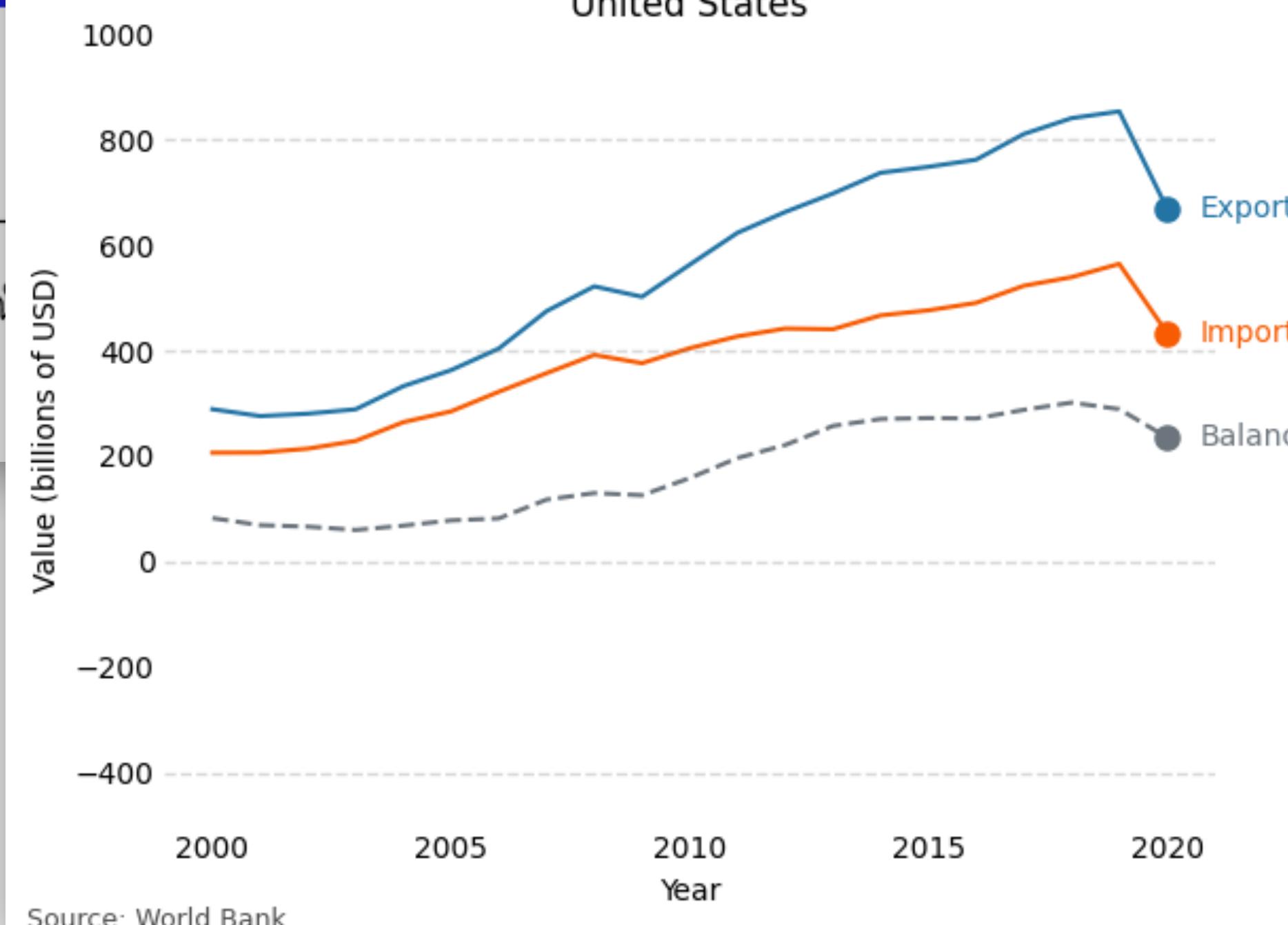
China Merchandise Trade Balance



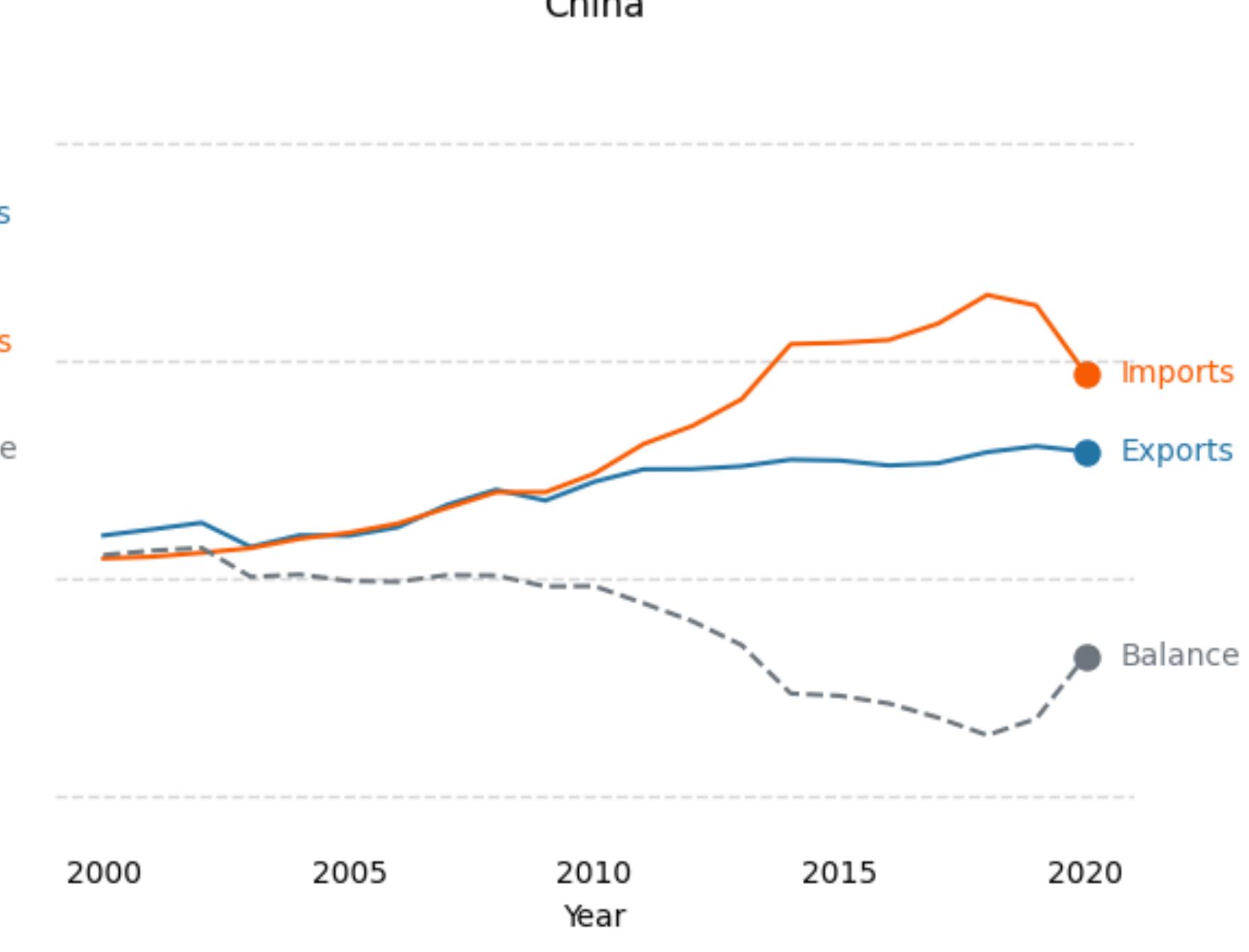
Service Trade Balance Comparison: U.S. vs China (1990-2020)

While China ships goods, the United States exports expertise, innovation, and global influence

United States

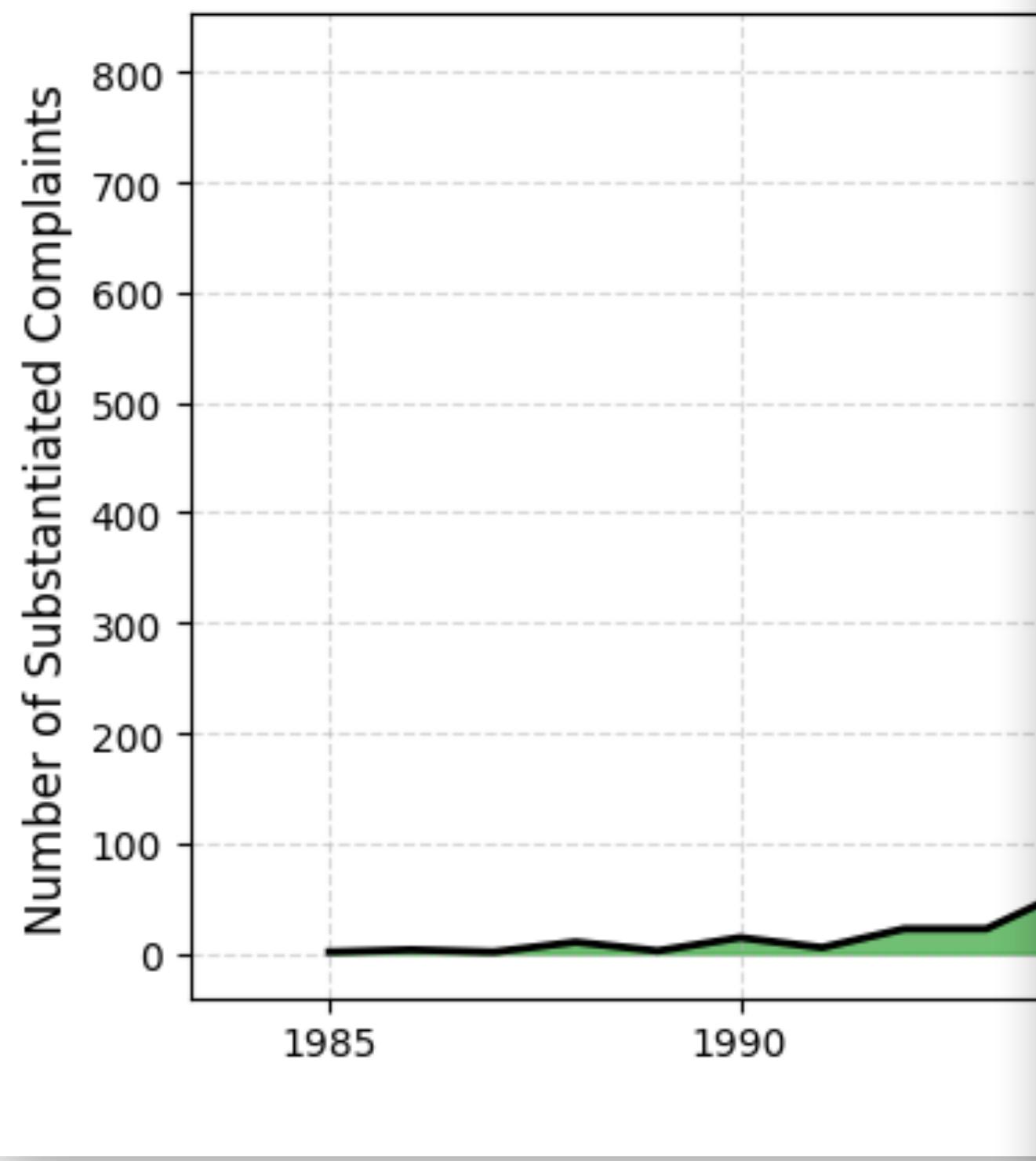


China



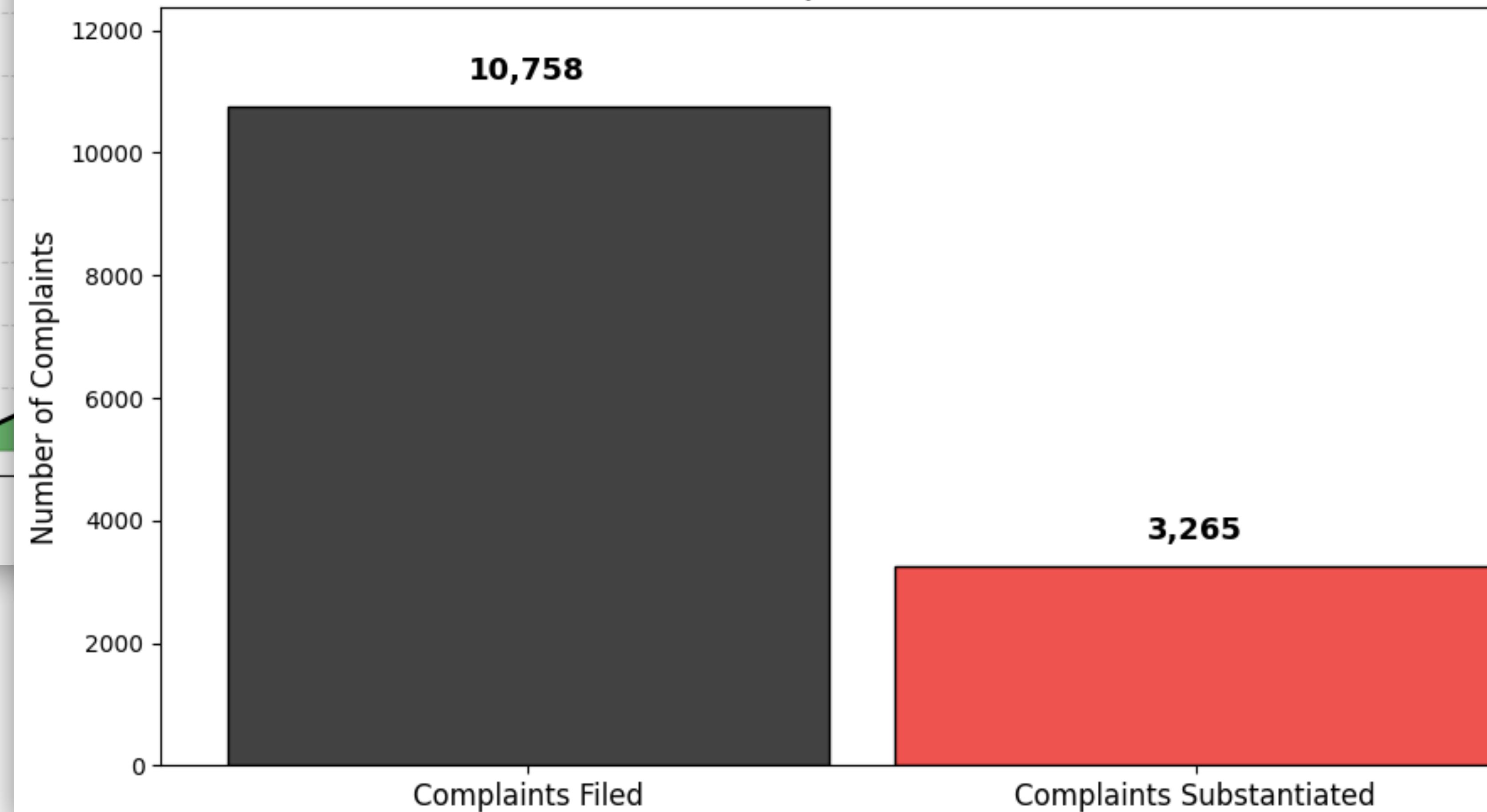
Every Year, More NYPD Officers Are Held Accountable

Annual substantiated complaints reflect



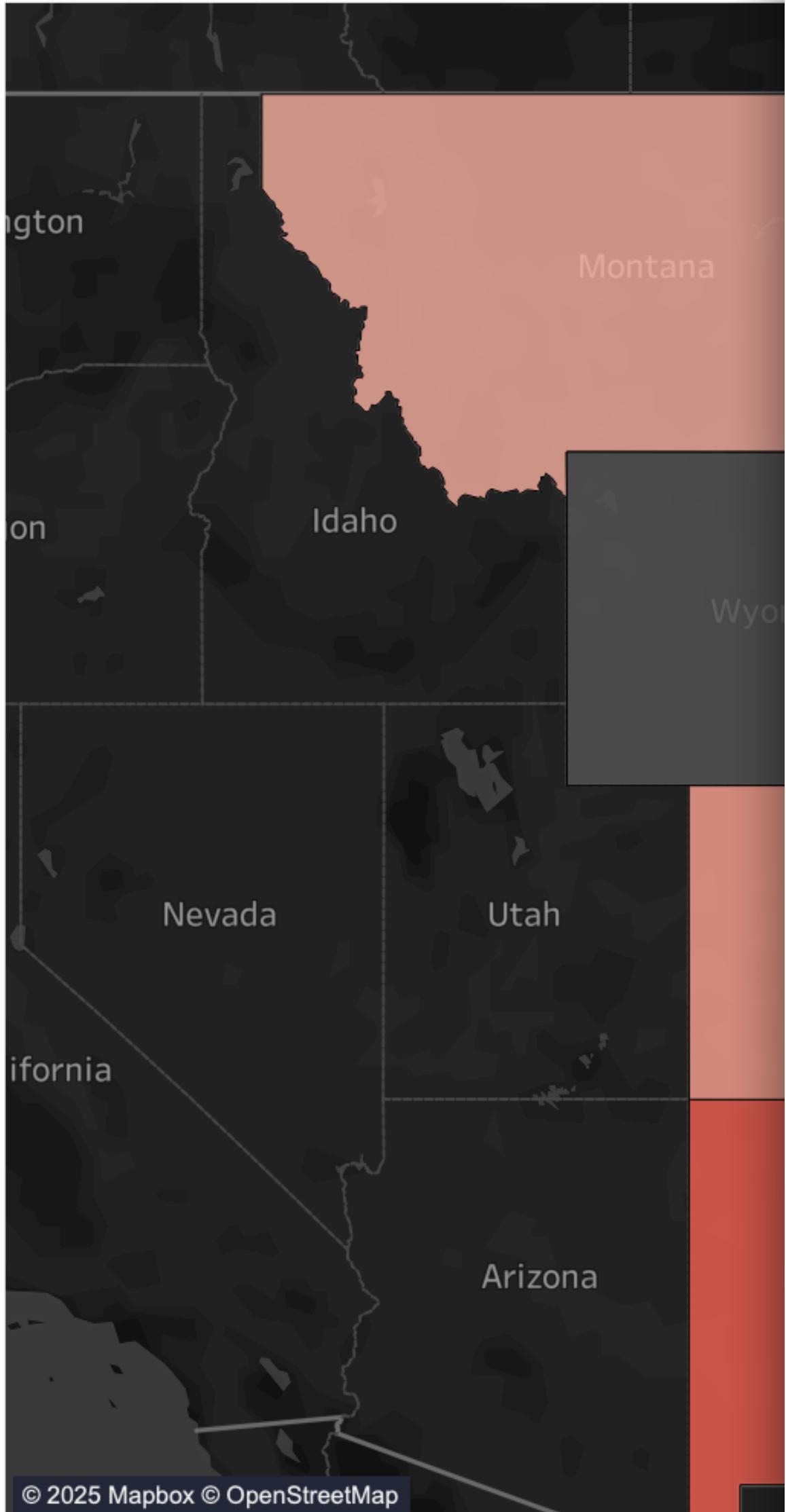
A Sea of Complaints. A Trickle of Accountability.

For most New Yorkers who report misconduct by an NYPD officer, the complaint is where the process ends. While filing is simple, having that complaint taken seriously—let alone confirmed—is extraordinarily rare.



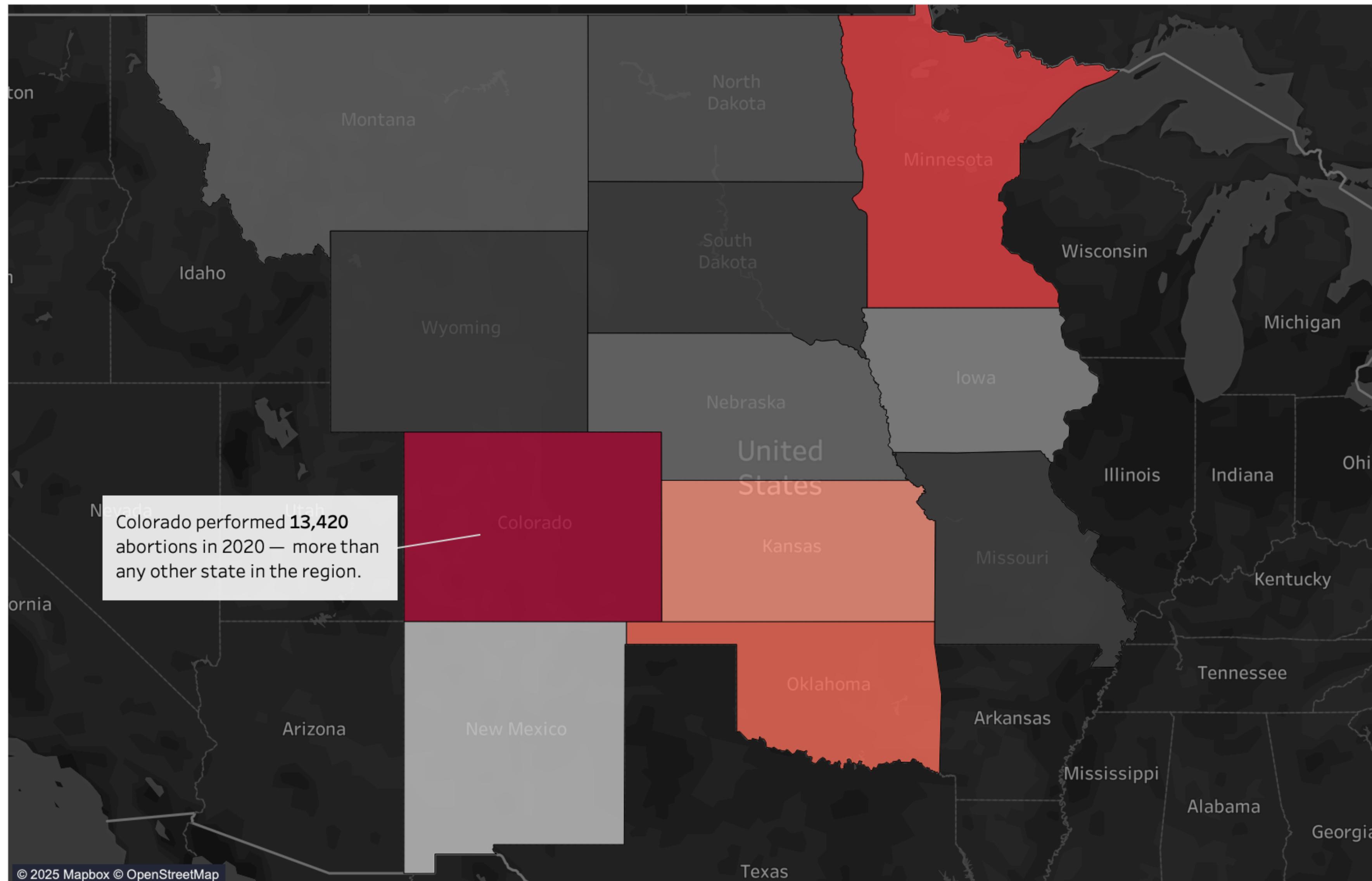
Kansas: Where the Region Turns

This map shows the abortion load ratio — in a state versus how many are for its res-



Colorado: Quietly Carrying the Region's Workload

This map shows the number of abortions performed in each state in 2020, highlighting which states provide care for the broader region — not just their own residents.



A value above 1 means more people are trav-

Lower totals may reflect fewer procedures, more residents traveling out-of-state, or limited clinic availability.

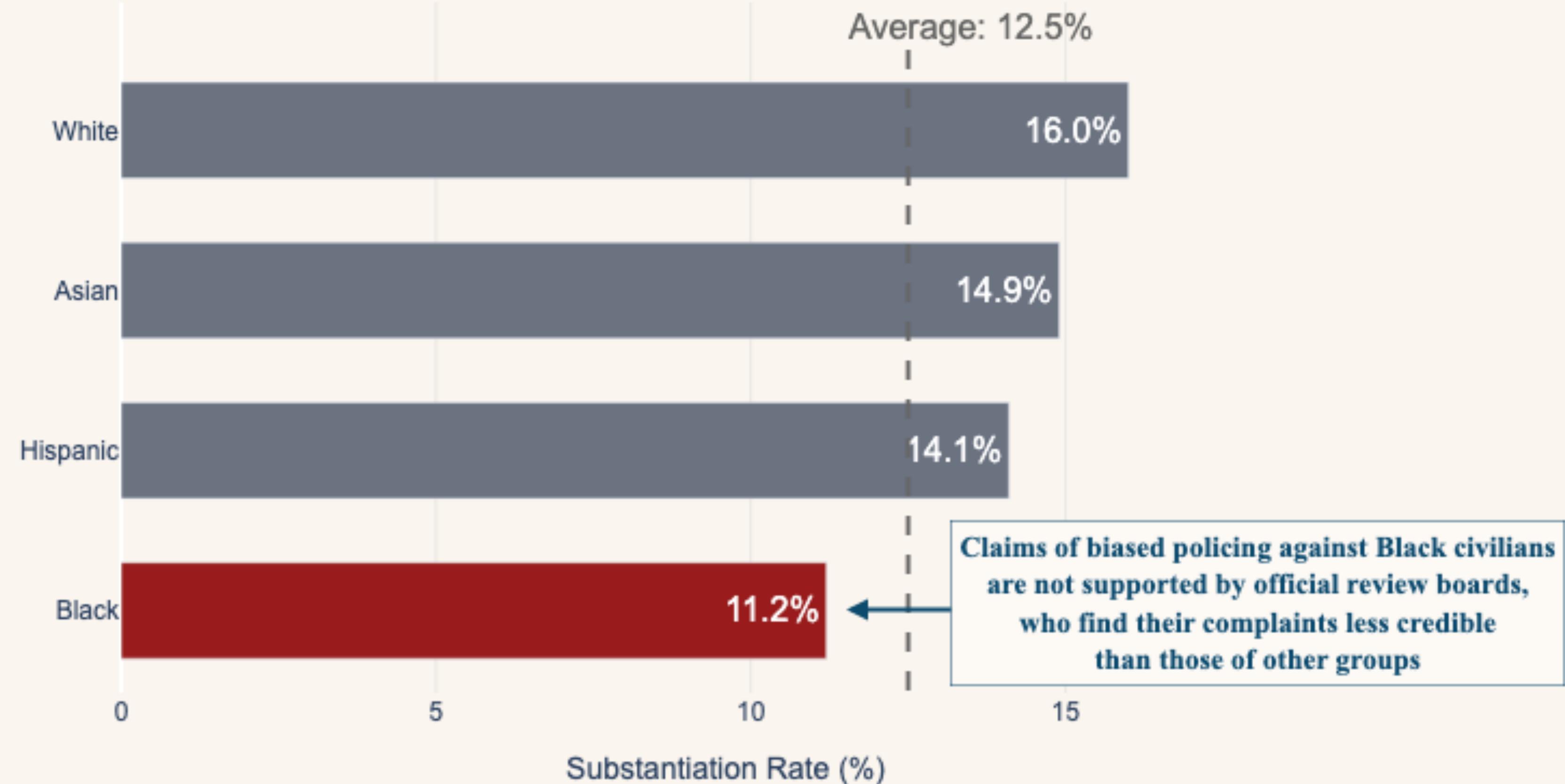
Black New Yorkers: Priorities

NYPD Officer Ethnicity



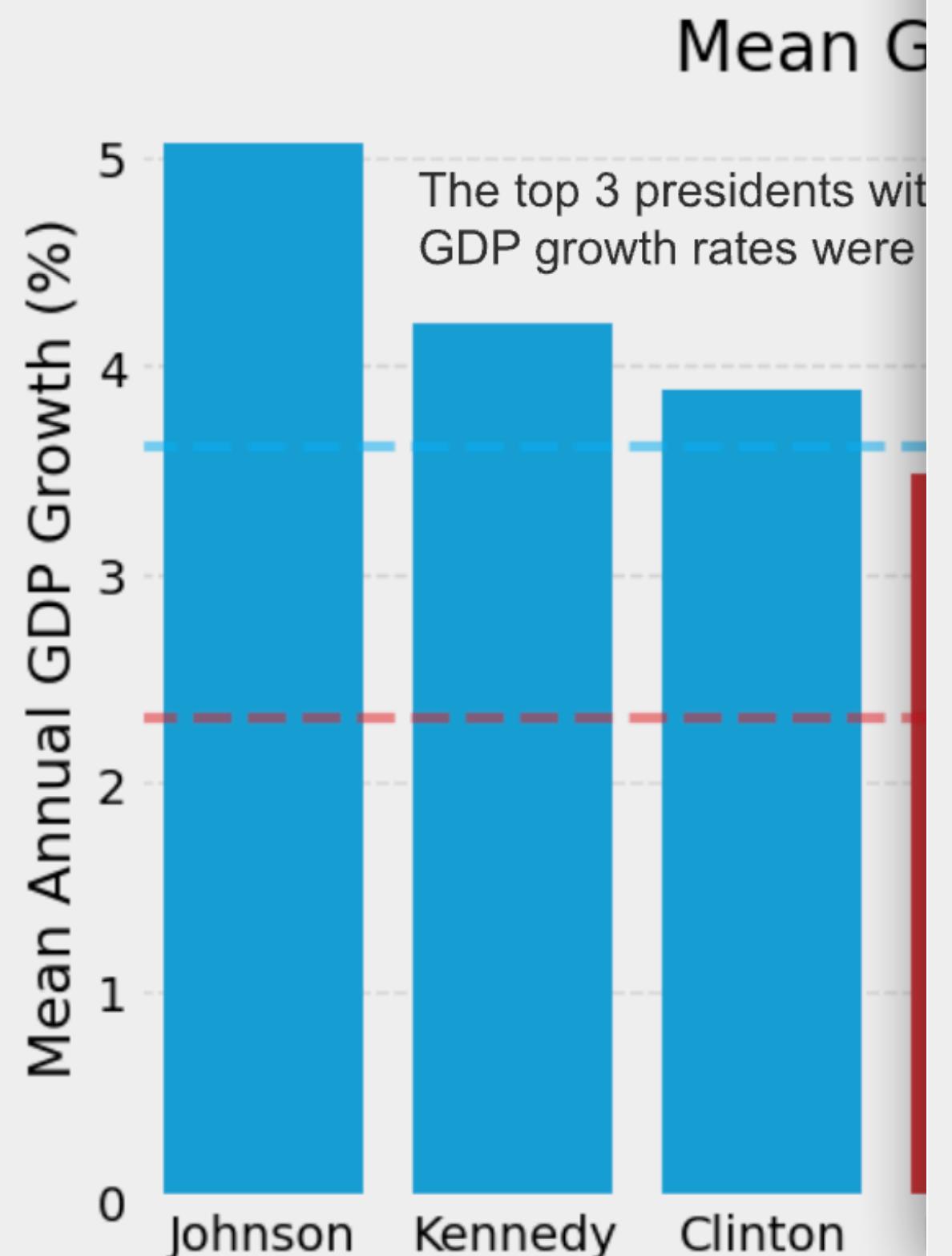
Total Force Complaints Filed To All Officers By Race/Ethnicity

Black Civilians' Force Complaints Are Less Likely To Be Substantiated

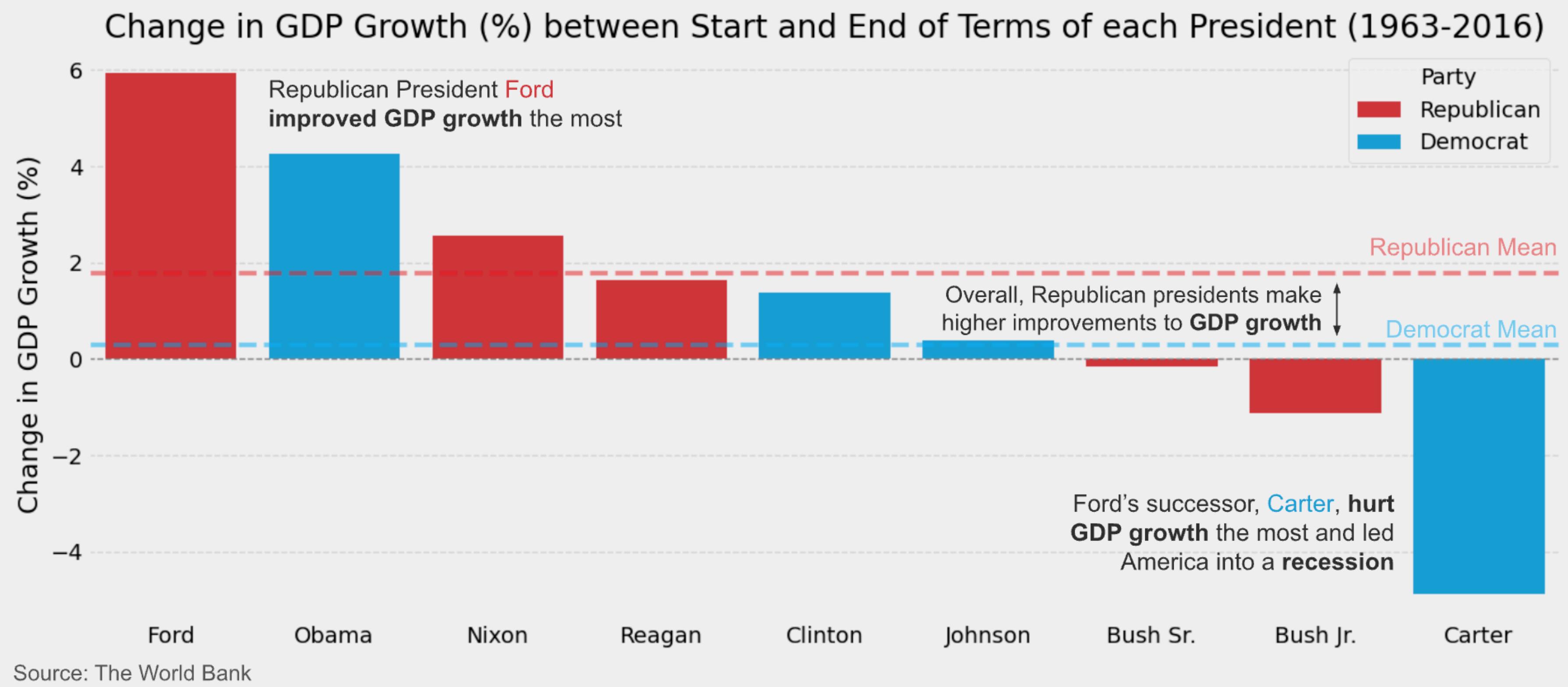


Who's the Fiscally Responsible President?

Democrats Lead to Higher GDP Growth



Common Sense Fiscal Policy Works. Republicans Lead to Higher GDP Growth



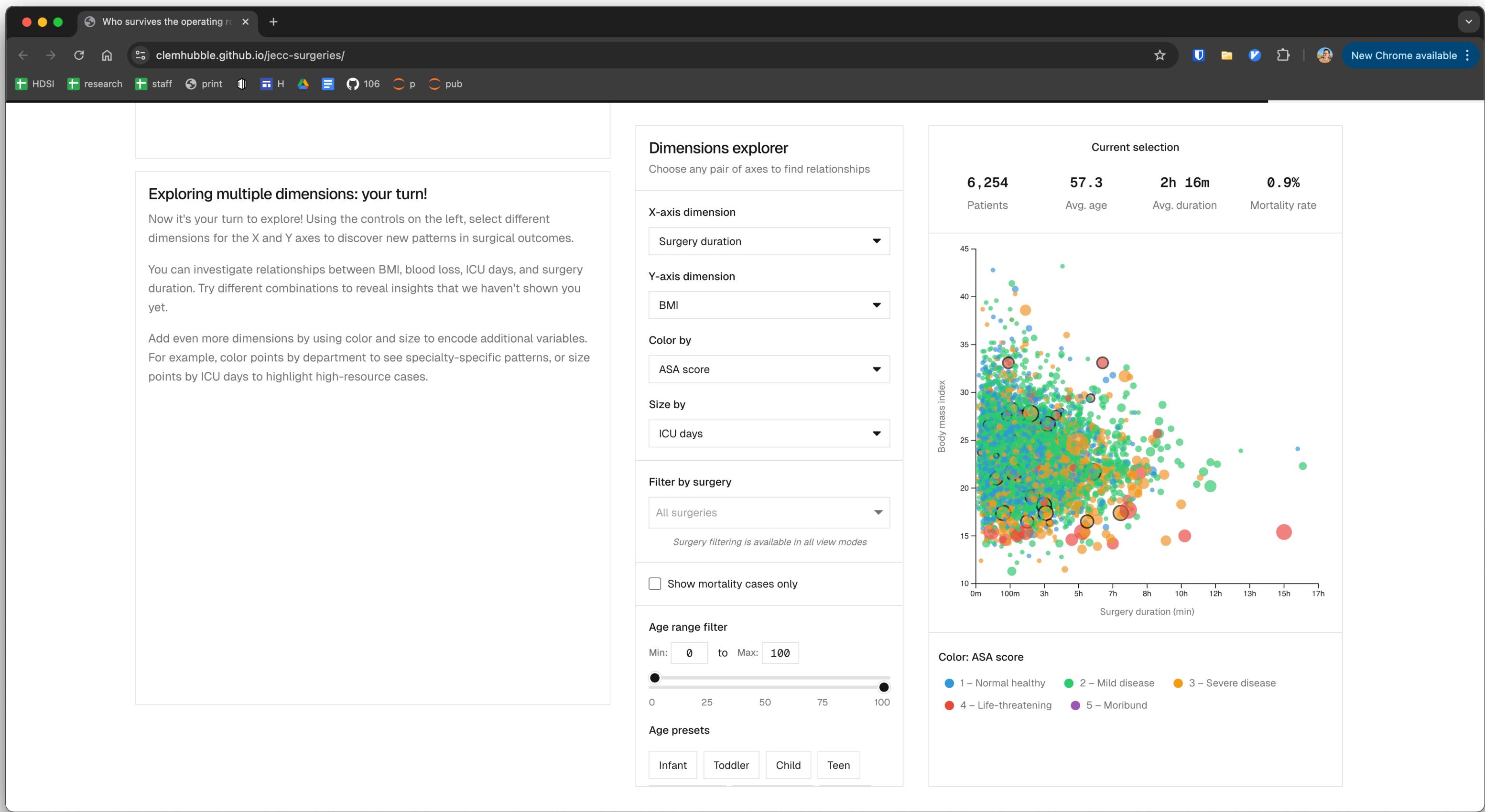
Source: The World Bank

How today will work

1. First, you will critique a project from last quarter – ideally with someone in your project team, or with a neighbor.
2. Ben will give his critique. Sam and Ben will discuss.
3. We'll take questions from the audience.
4. Repeat until we run out of time!

Who survives the operating room?

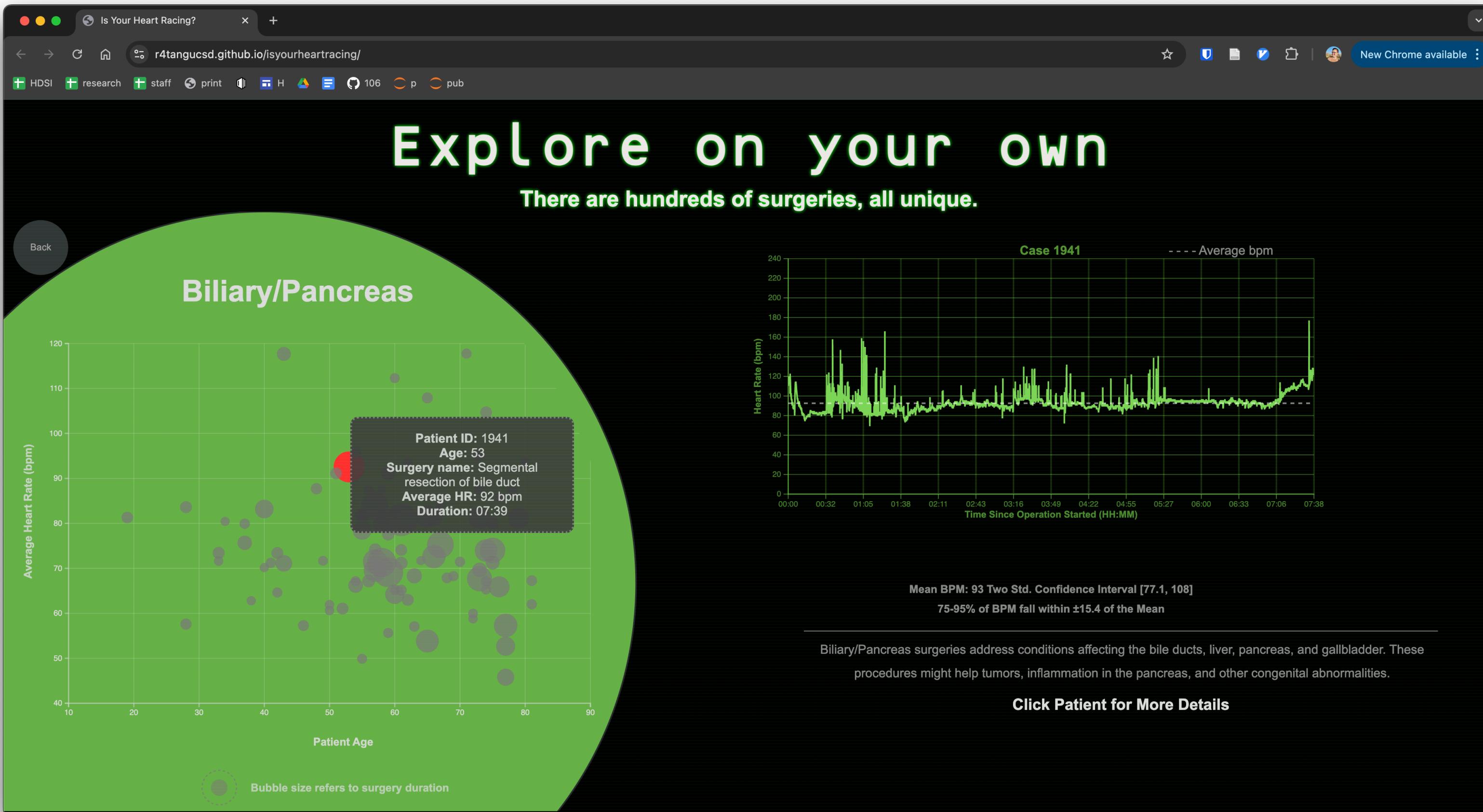
<https://clemhubble.github.io/jecc-surgeries/>



tryclassbuzz.com
Code: oper

Is Your Heart Racing?

<https://r4tangucsd.github.io/isyourheartracing/>



tryclassbuzz.com
Code: racing

The Effect of Parkinsons on Typing Ability

<https://matthewbudding.github.io/FinalProject-DSC106/>

The screenshot shows a web browser window with the title 'Parkinsons and Typing Ability'. The URL in the address bar is 'matthewbudding.github.io/FinalProject-DSC106/'. The page features a purple background with a white rounded rectangle containing a hand icon and text. On the left, there's a section titled 'The Effect of Parkinsons on Typing Ability' with a subtitle 'Investigating the impact of Parkinson's disease on dexterity and fine motor control through the visualization of typing.' Below this are two buttons: 'Data' (blue) and 'Explore more' (white). At the bottom, there's a footer with four names: Eric Cheng (Designer), Jerric Jiang (Scatter Plot/Script), Omid Alamdar (Typing Speed/Video), and Matthew Budding (Statistics/Aggregate Keystroke). A 'Key Statistics' button is at the bottom left, and a 'Typing Speed Comparison' section is at the bottom right.

tryclassbuzz.com
Code: park

Gamify Unplugged: How Gamifying Surveys can Reduce Cognitive Load

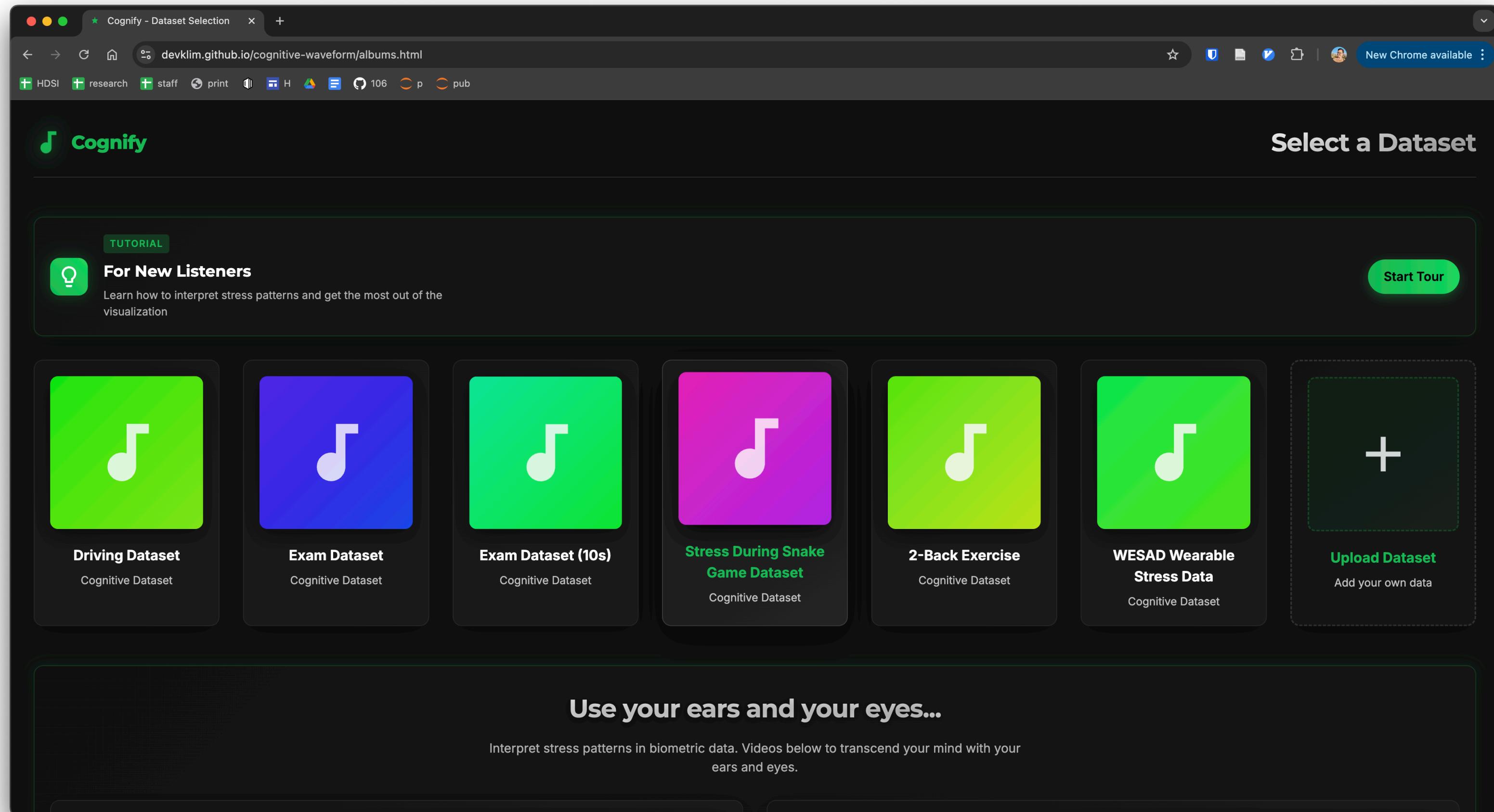
<https://nglyry.github.io/Final-Proj-Dsc106/>

The screenshot shows a web browser window with the title bar "Gamify Unplugged". The address bar contains the URL "nglyry.github.io/Final-Proj-Dsc106/". The page itself has a dark header with three buttons: "Survey" (highlighted), "Writeup", and "Gamified Survey". Below the header is a large blue title: "Gamify Unplugged: How Gamifying Surveys can Reduce Cognitive Load". A paragraph of text follows, explaining the importance of understanding cognitive load and how gamification can help. At the bottom, there's a section titled "Question 1" with a question about distractibility and three response options: "Very Much Like Me", "Mostly Like Me", and "Somewhat Like Me".

tryclassbuzz.com
Code: game

Cognify

<https://devklim.github.io/cognitive-waveform/>

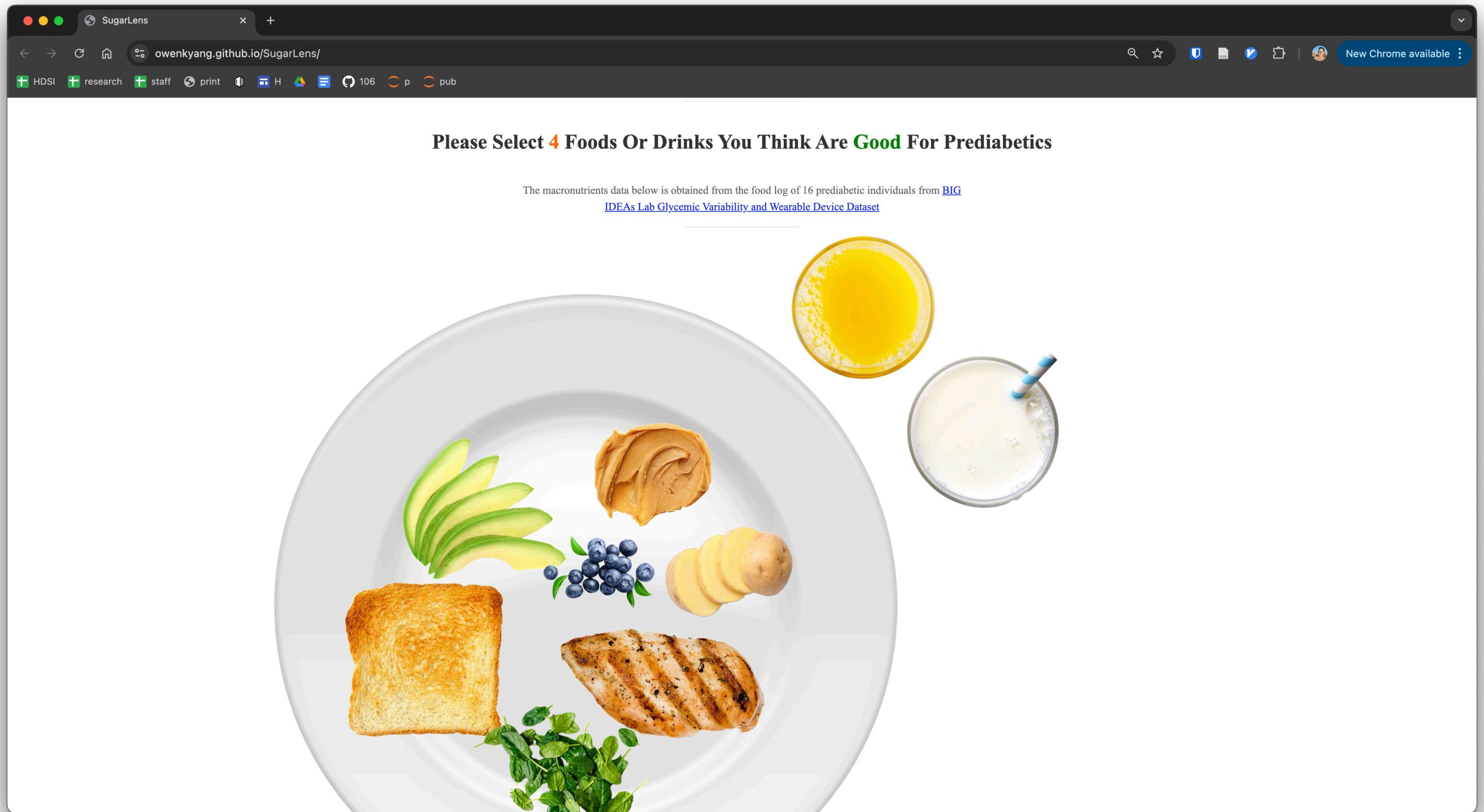


tryclassbuzz.com
Code: **cognify**

SugarLens

tryclassbuzz.com
Code: sugar

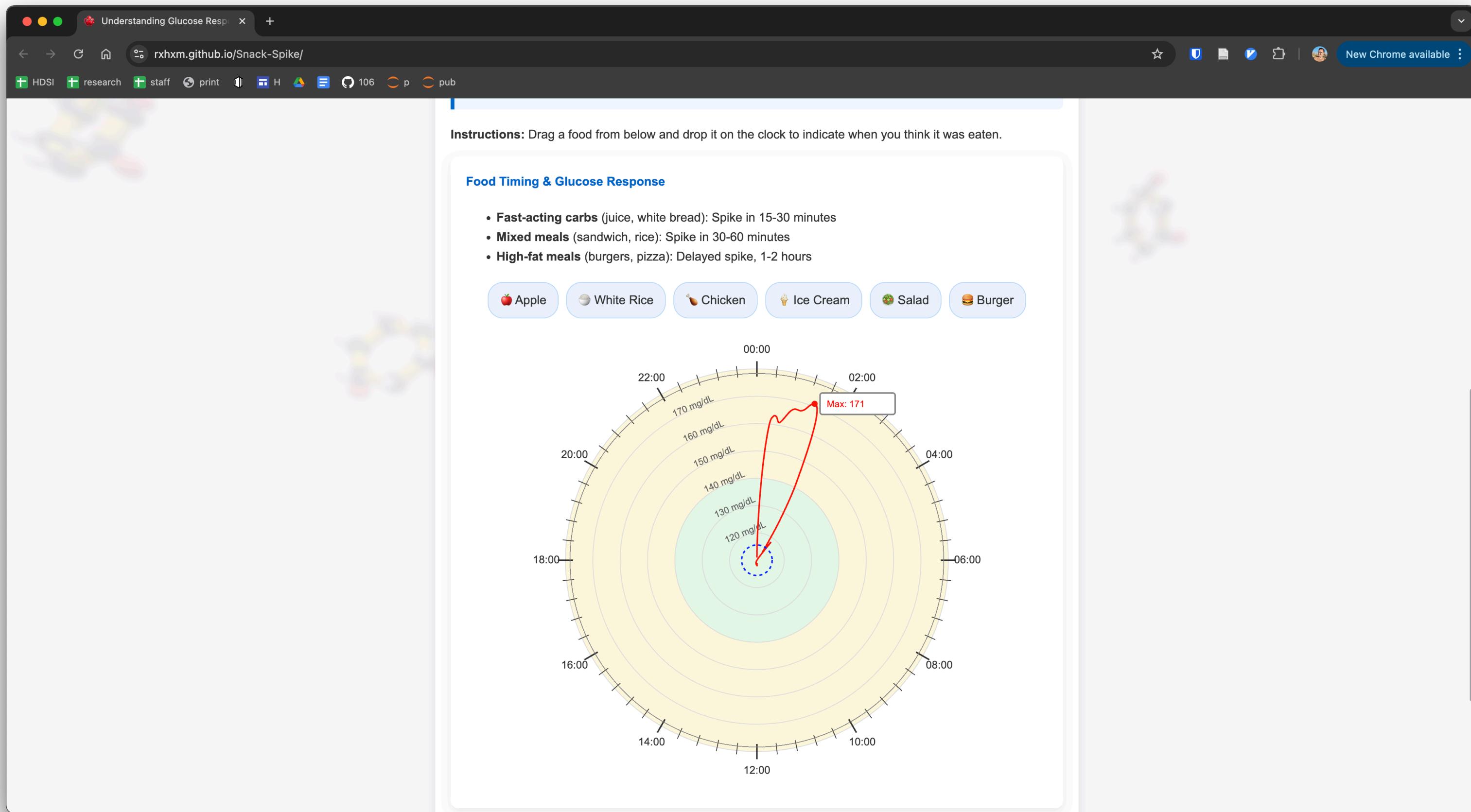
<https://owenkyang.github.io/SugarLens/>



Snack & Spike

tryclassbuzz.com
Code: snack

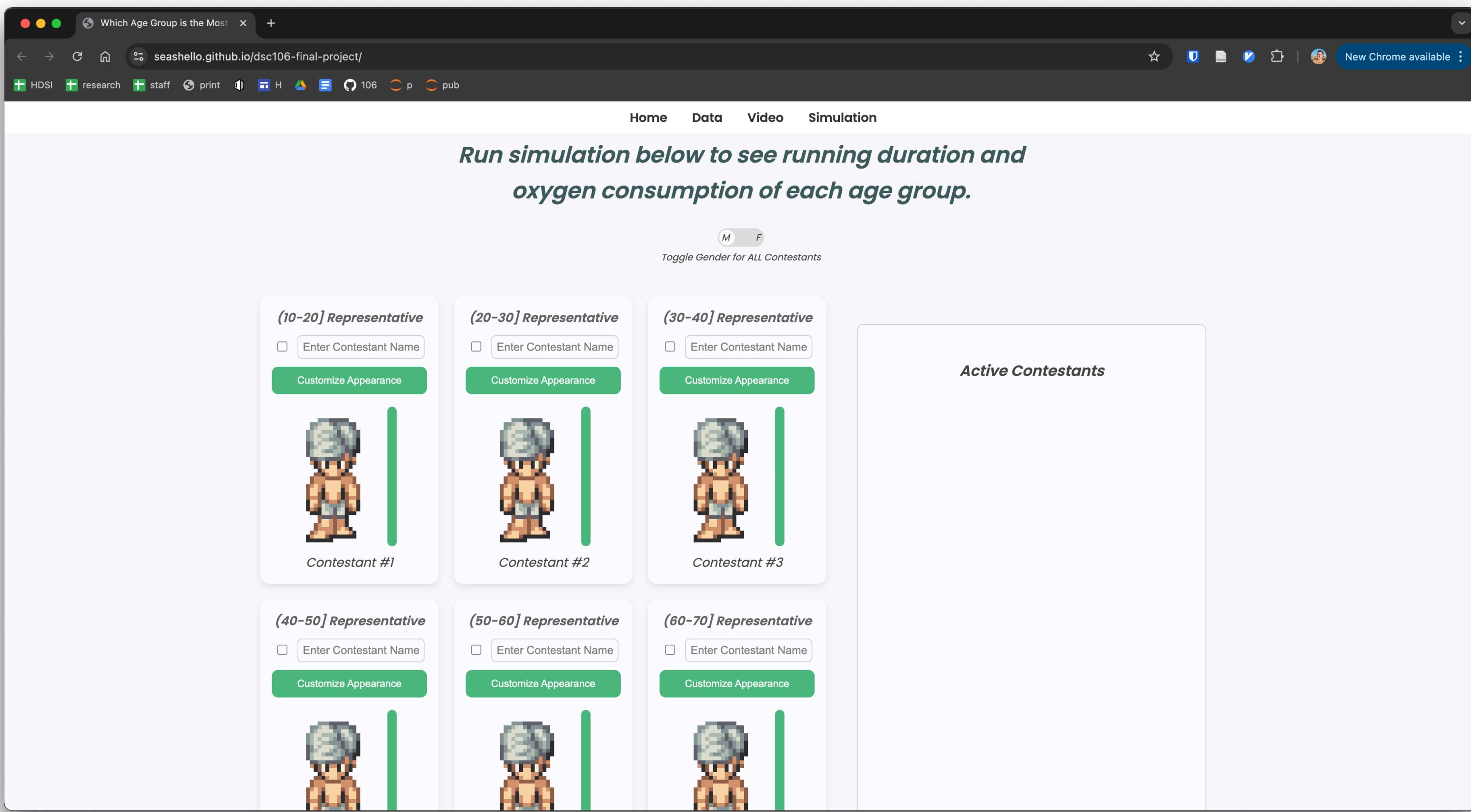
<https://rxhxm.github.io/Snack-Spike/>



Which Age Group is the Most Fit?

<https://seashello.github.io/dsc106-final-project/>

tryclassbuzz.com
Code: fits



**See all projects from last
quarter:**

<https://dsc-courses.github.io/dsc106-2025-wi/showcase/>