

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.

Interested in extra OH next Wed from 4-5pm? See Piazza post.

FAQs:

- 1.

Best Project 2 Awards

Given to top 5% of project submissions

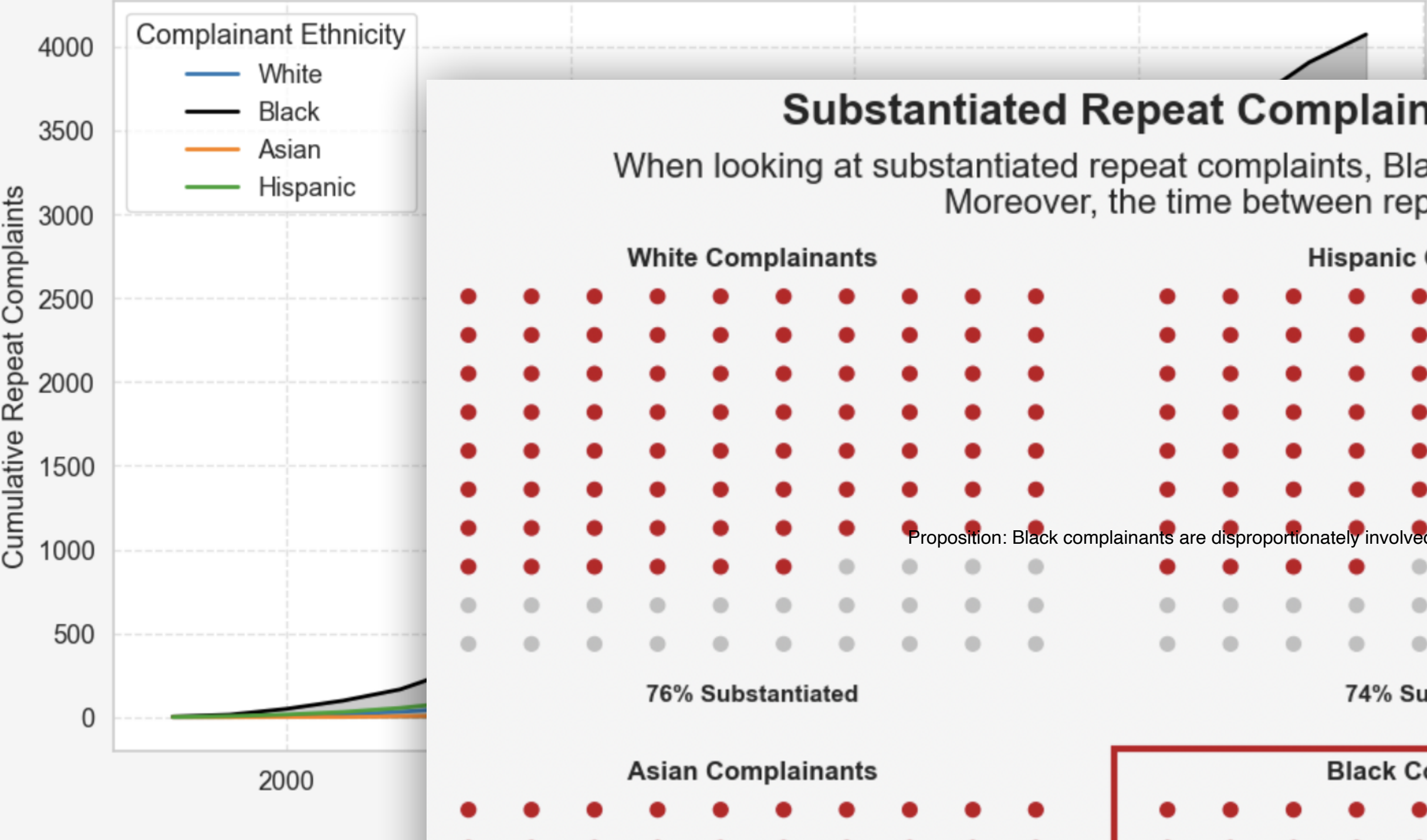
Include this on your resume!

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.

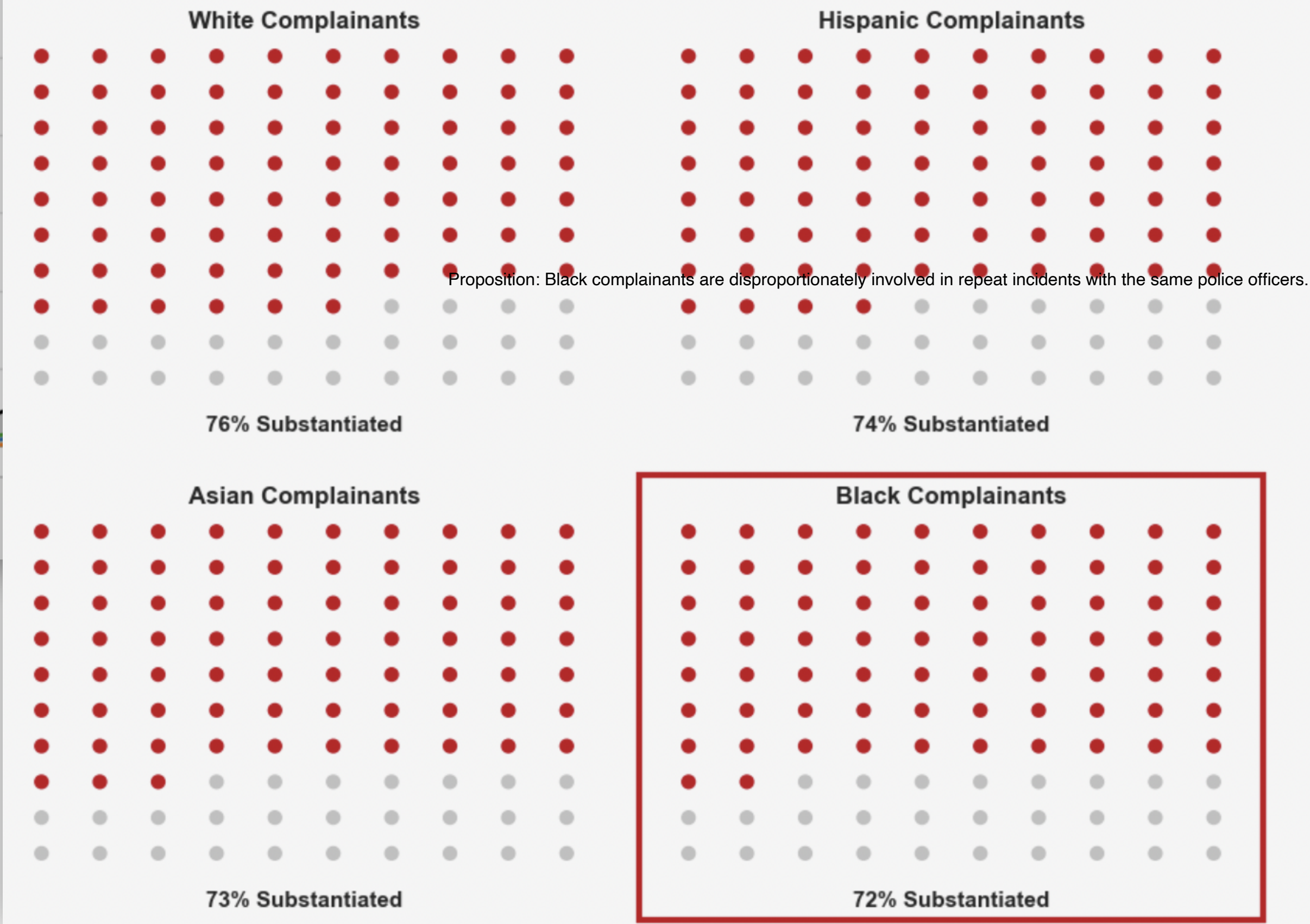
Black Complainants Drive Repeat Misconduct Trends

Black Complainants Are Most Likely to File Repeat Reports

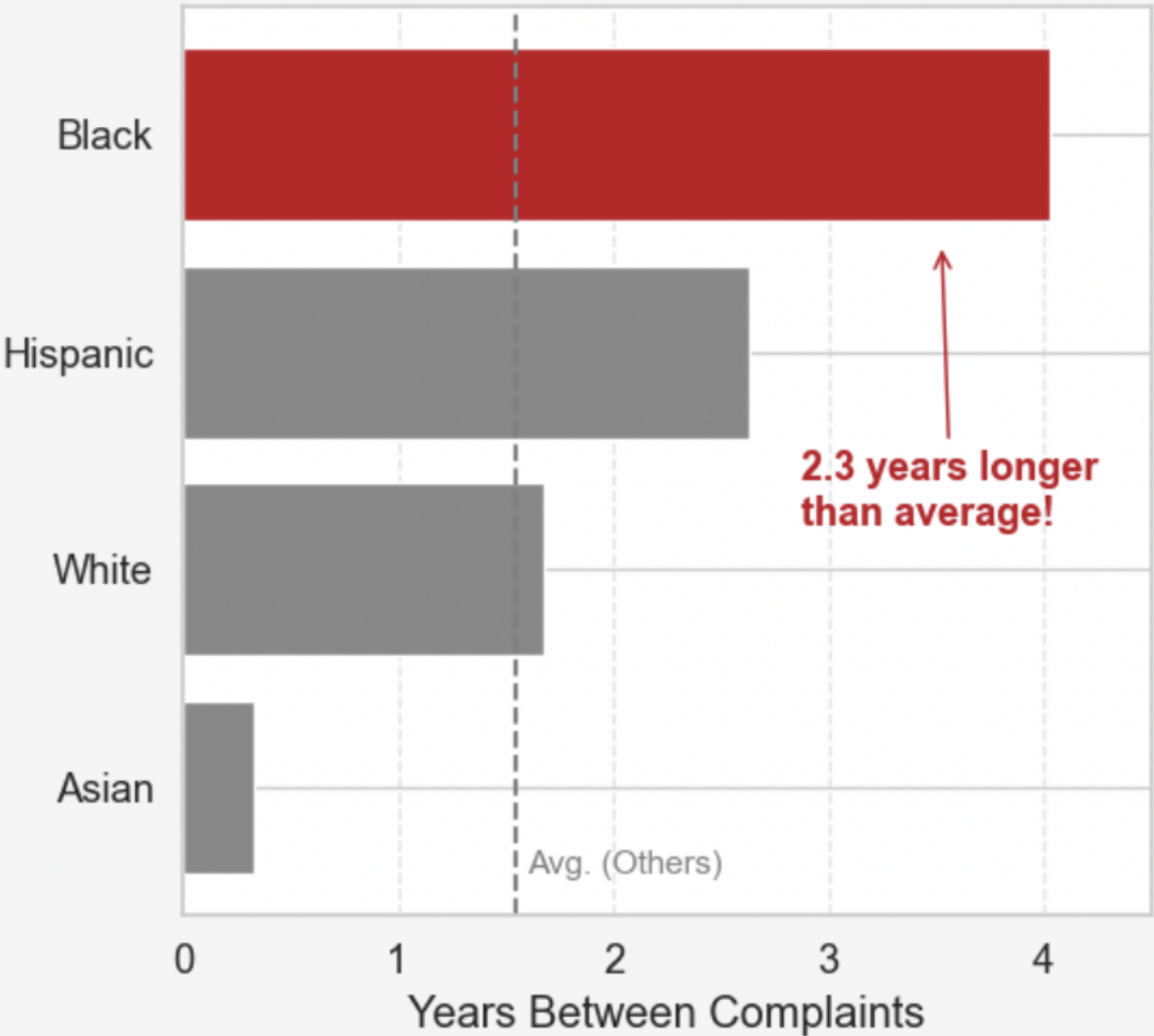


Substantiated Repeat Complaints Are Least Likely to Involve Black Civilians

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.

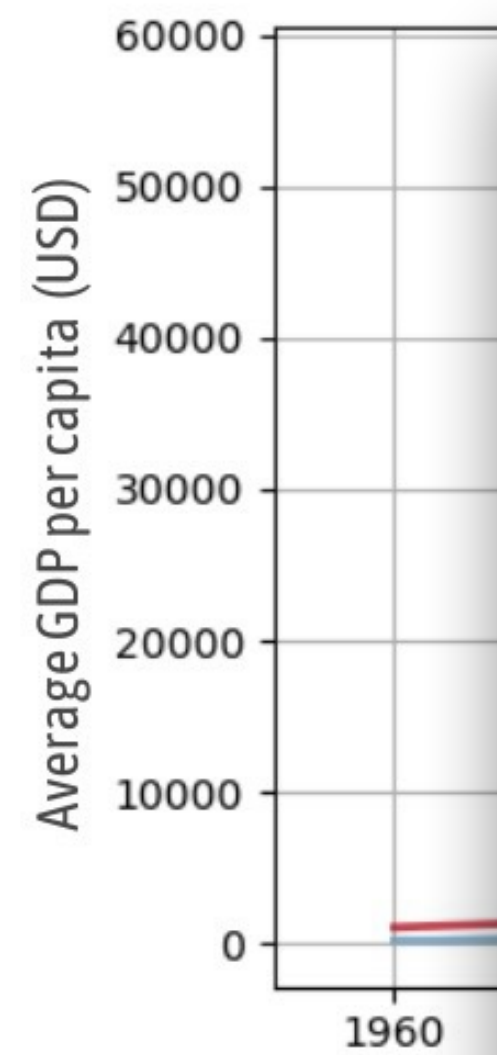


Average Time Between Repeat Complaints



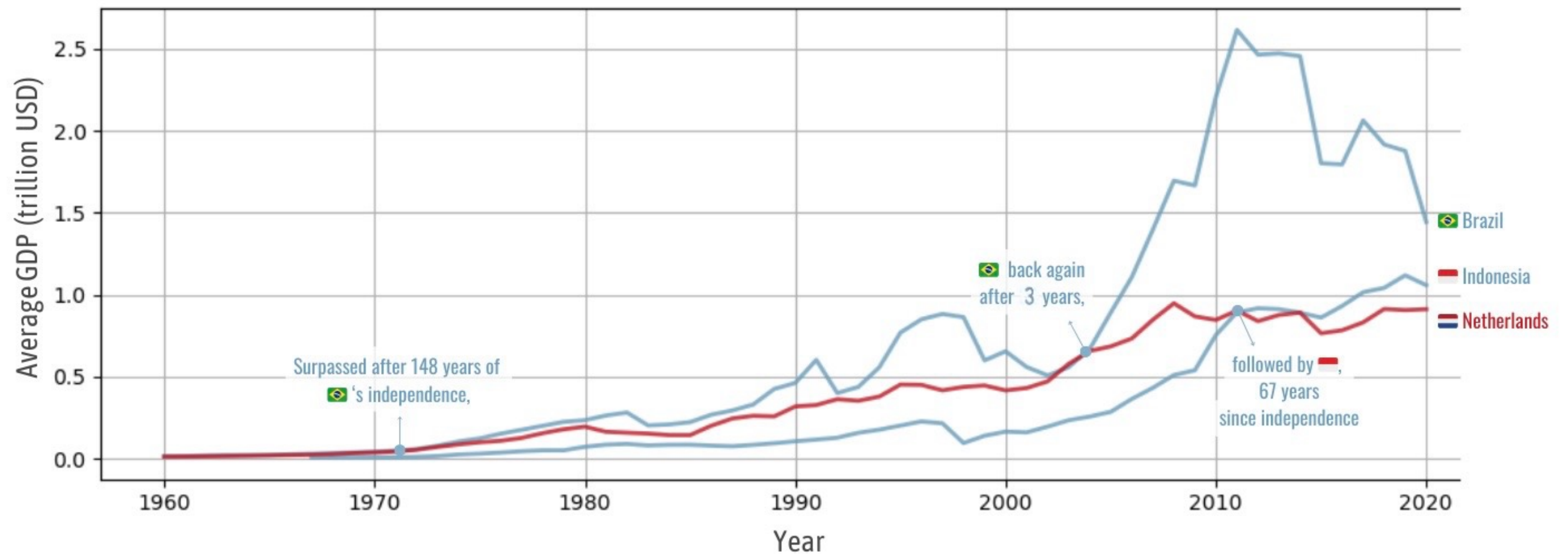
Beyond Independence: A Growing Divide

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



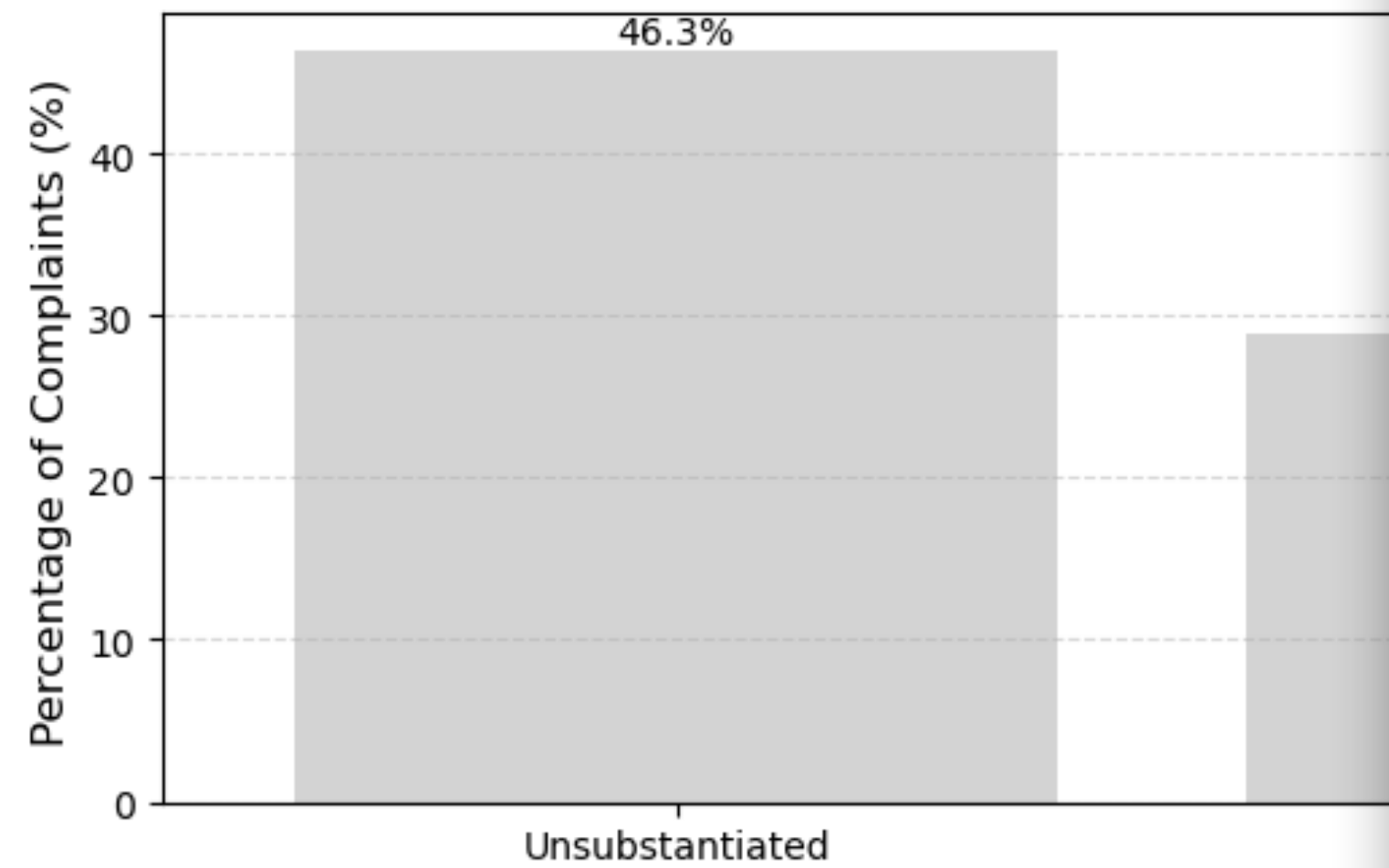
COLONIZED, NOW CAPITALIZED

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

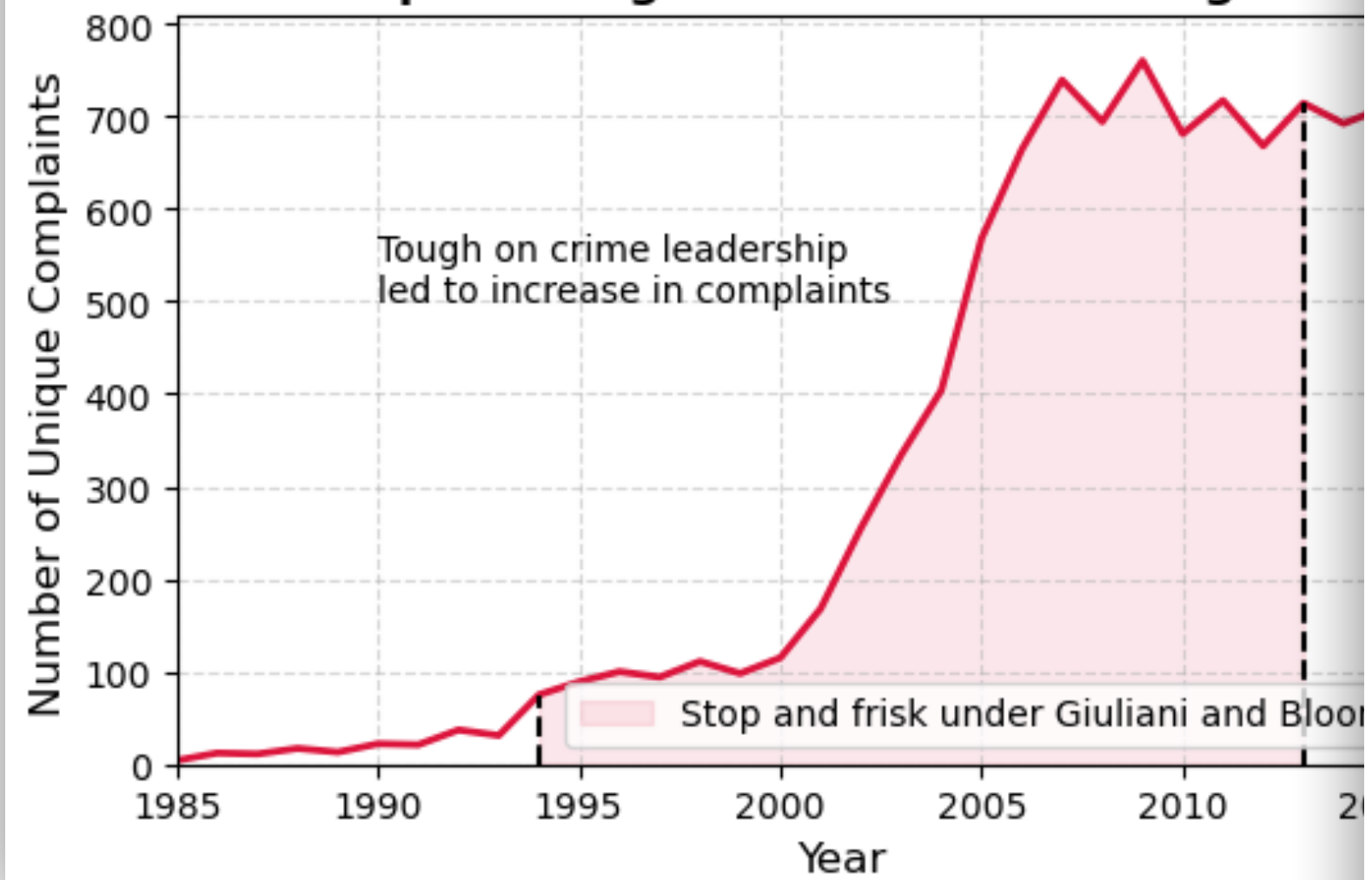


NYPD: A Mast

Low substantiation and exoneration rates inc

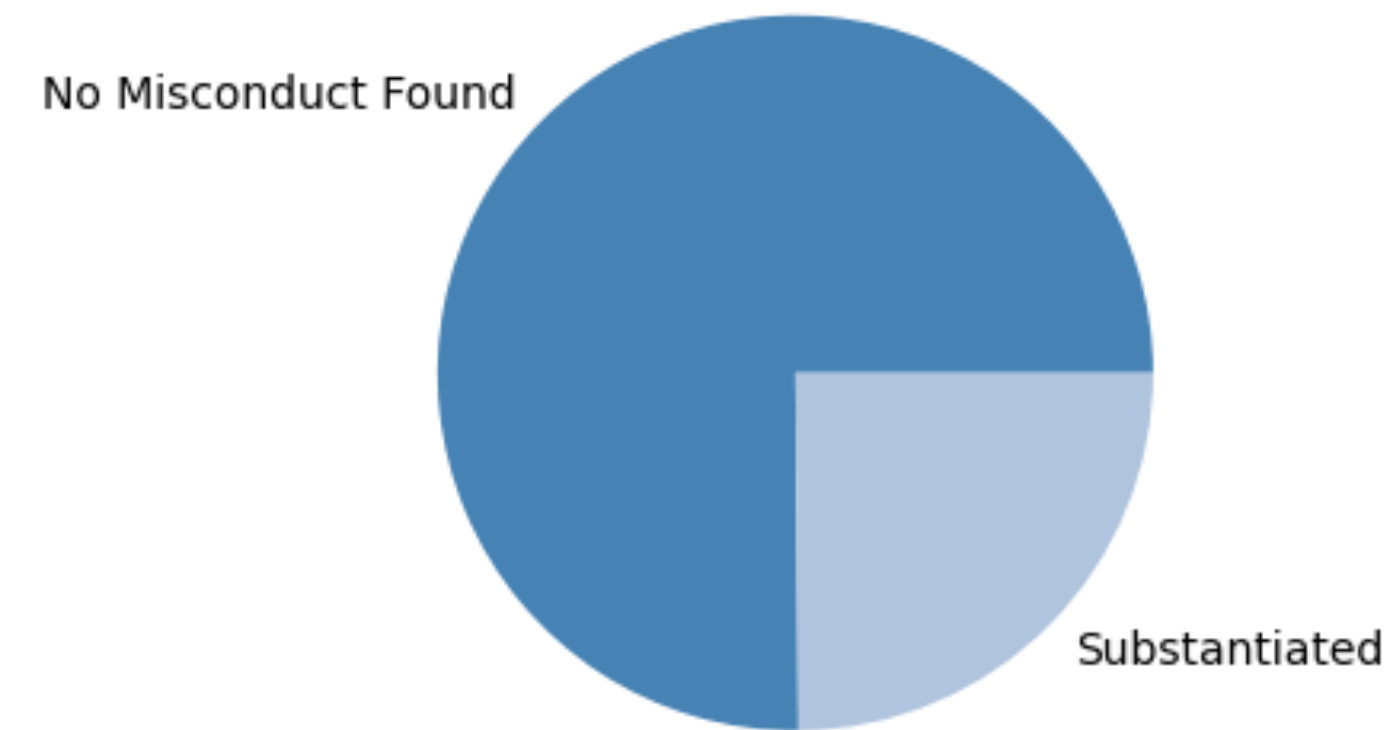


Civilian Complaints Against NYPD Have Surged Si



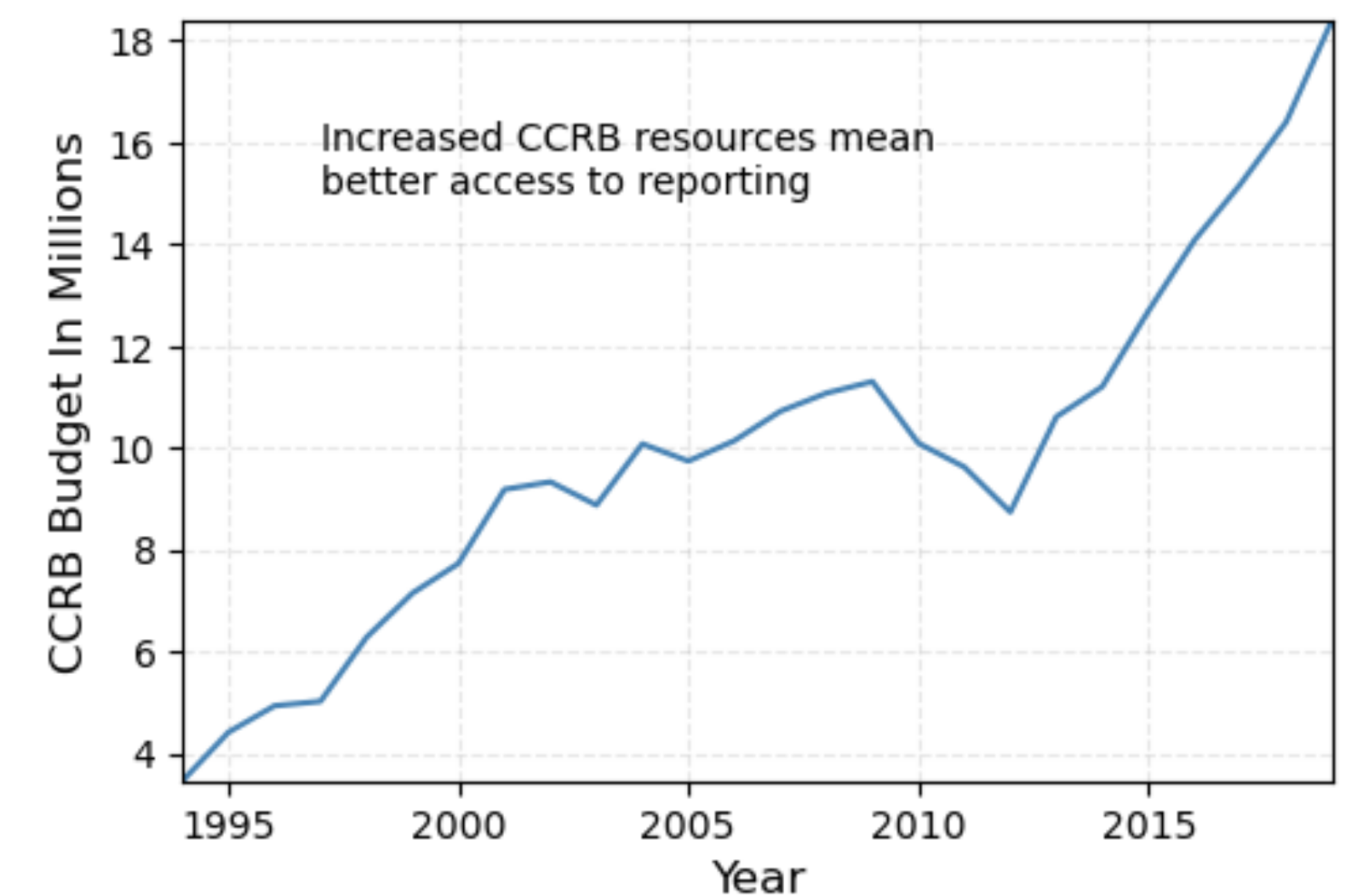
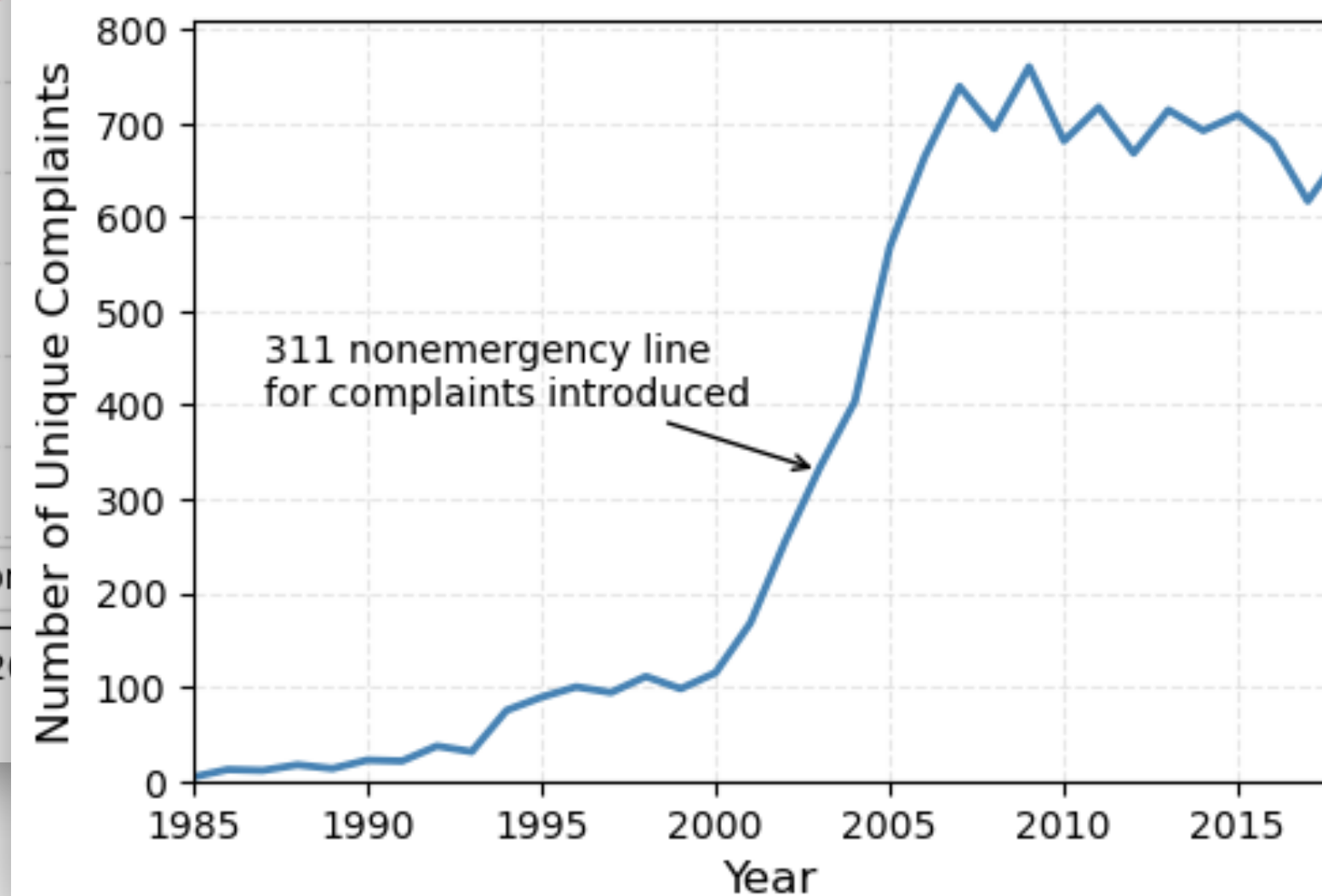
Boys In Blue On Good Behavior

Most Complaints Show No Wrongdoing

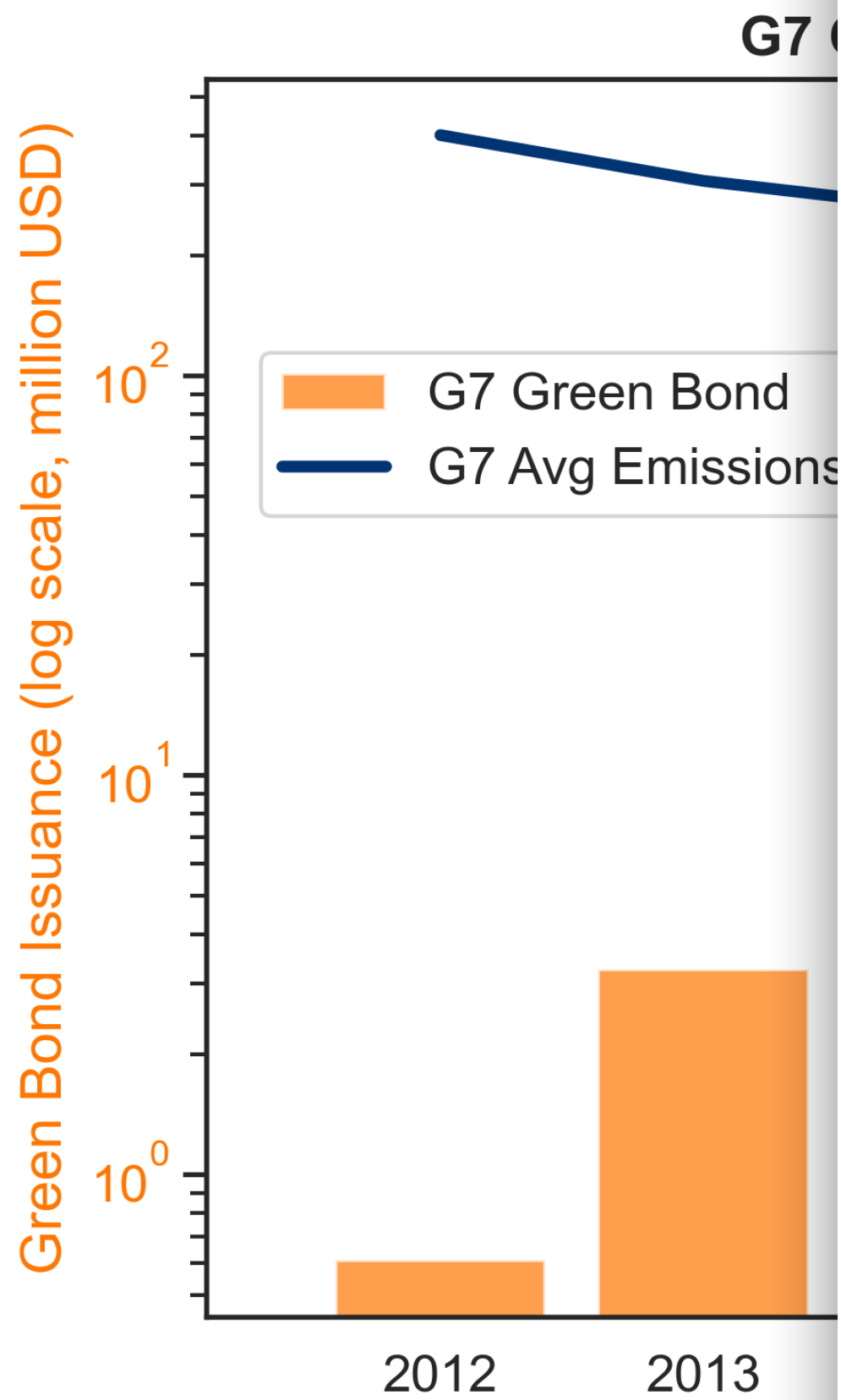


Mo' Money Mo' Problems

NYPD Complaints Increase Alongside CCRB Budget And Reporting Access

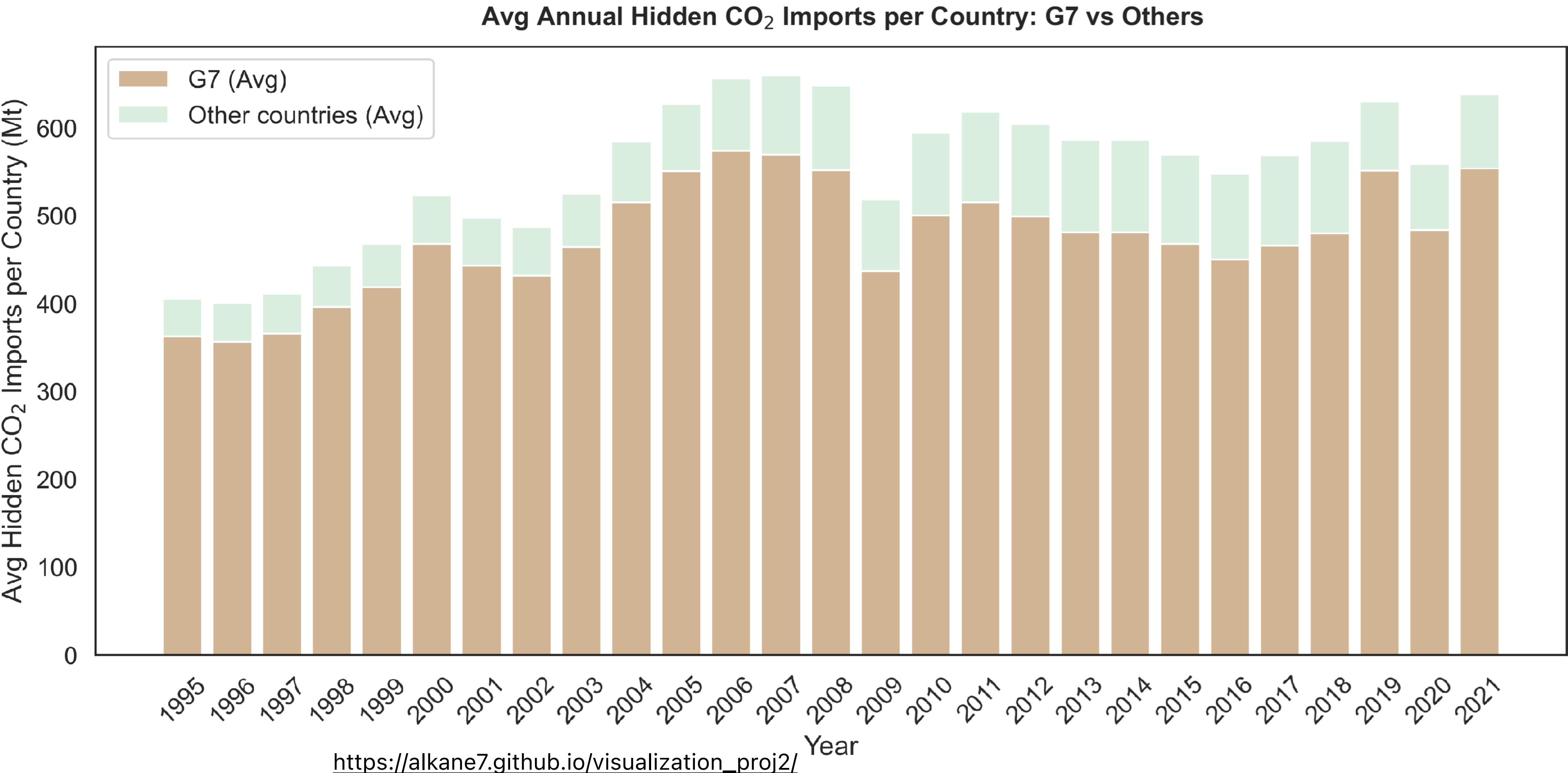
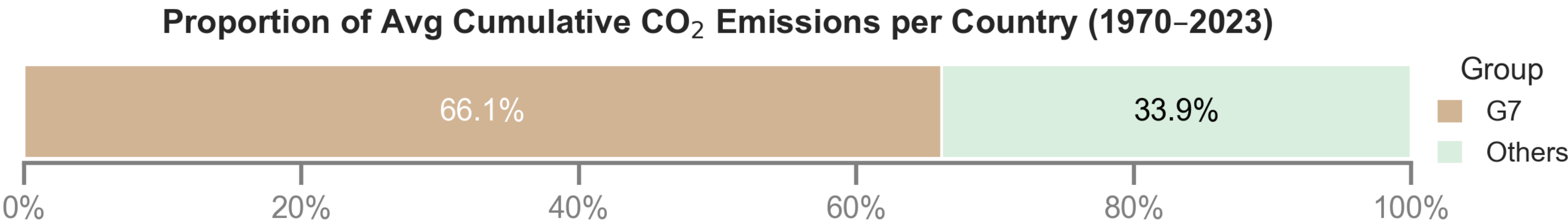


Wealthy Nations Are Leading



Leading the Fight or Leading the Emissions?

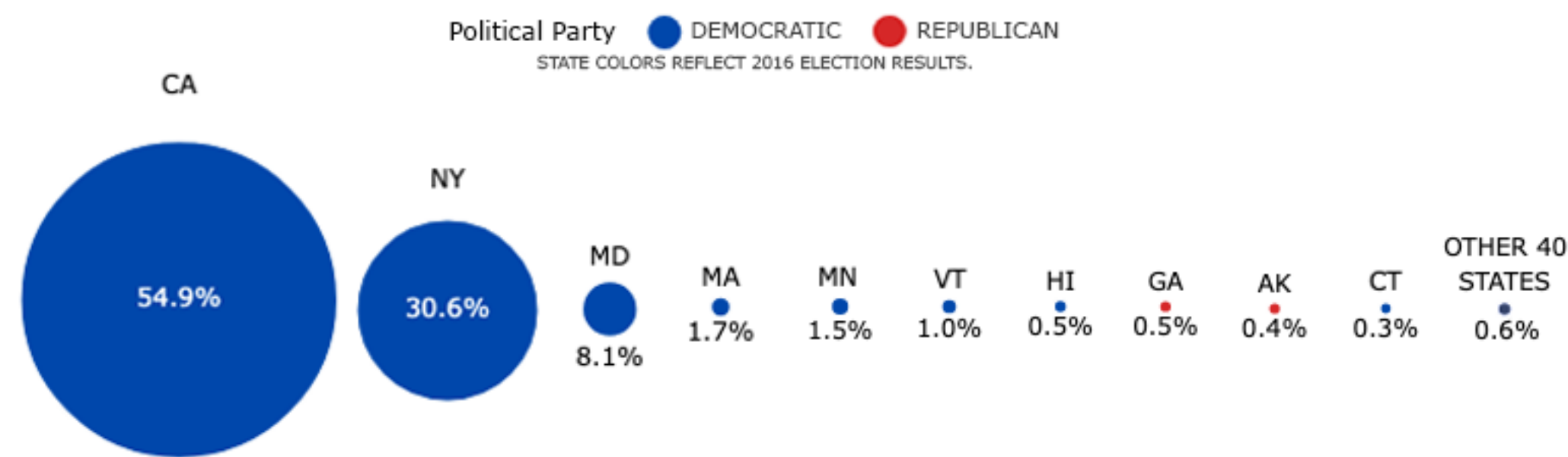
Wealthy nations are not truly leading the fight against climate change, as they bear the highest historical emissions while continuing to outsource carbon through trade.



Democrats Readily Fund Teen Pregnancies and Abortions

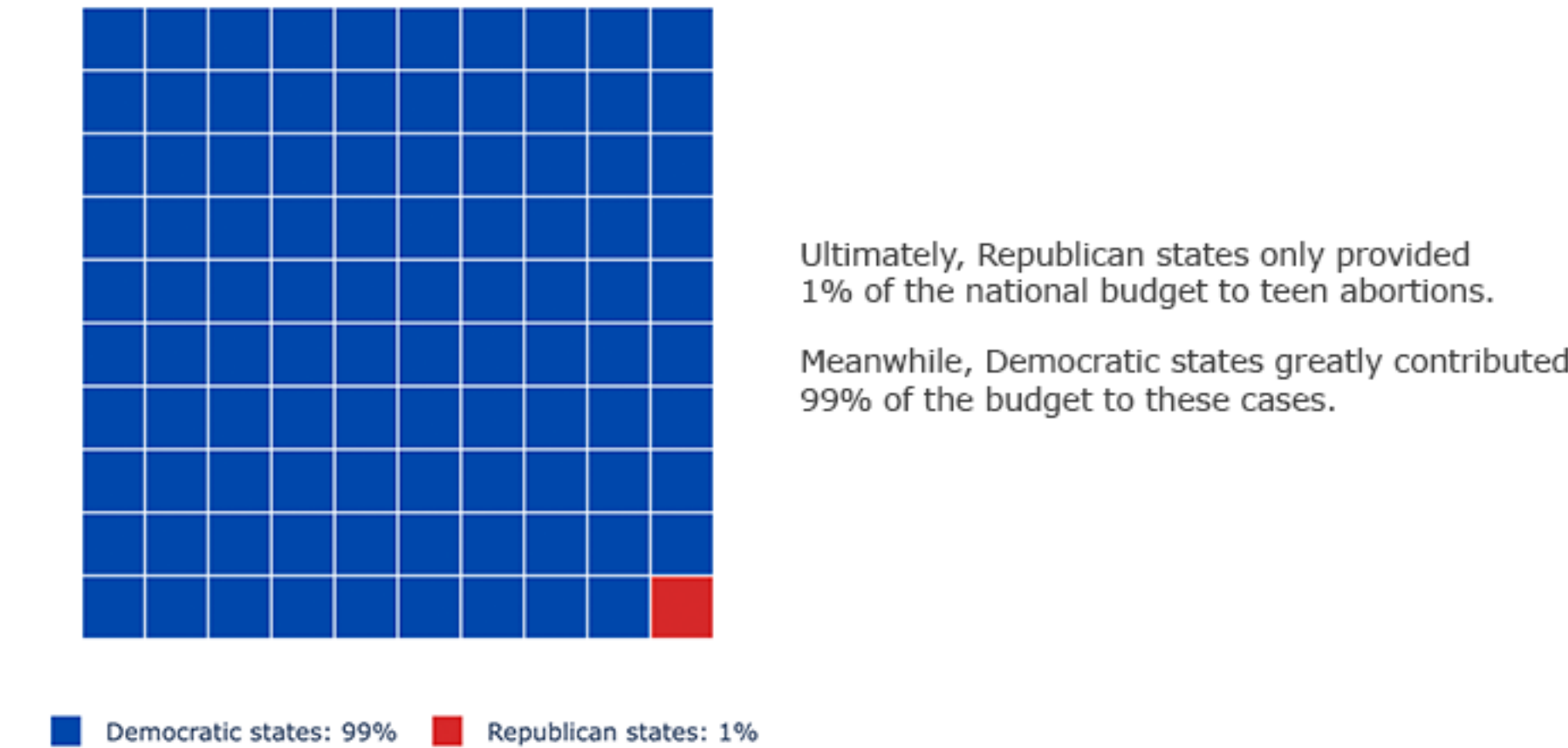
Share of National Abortion Budget Spent on Teens (Ages 15-17)

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 overwhelmingly 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



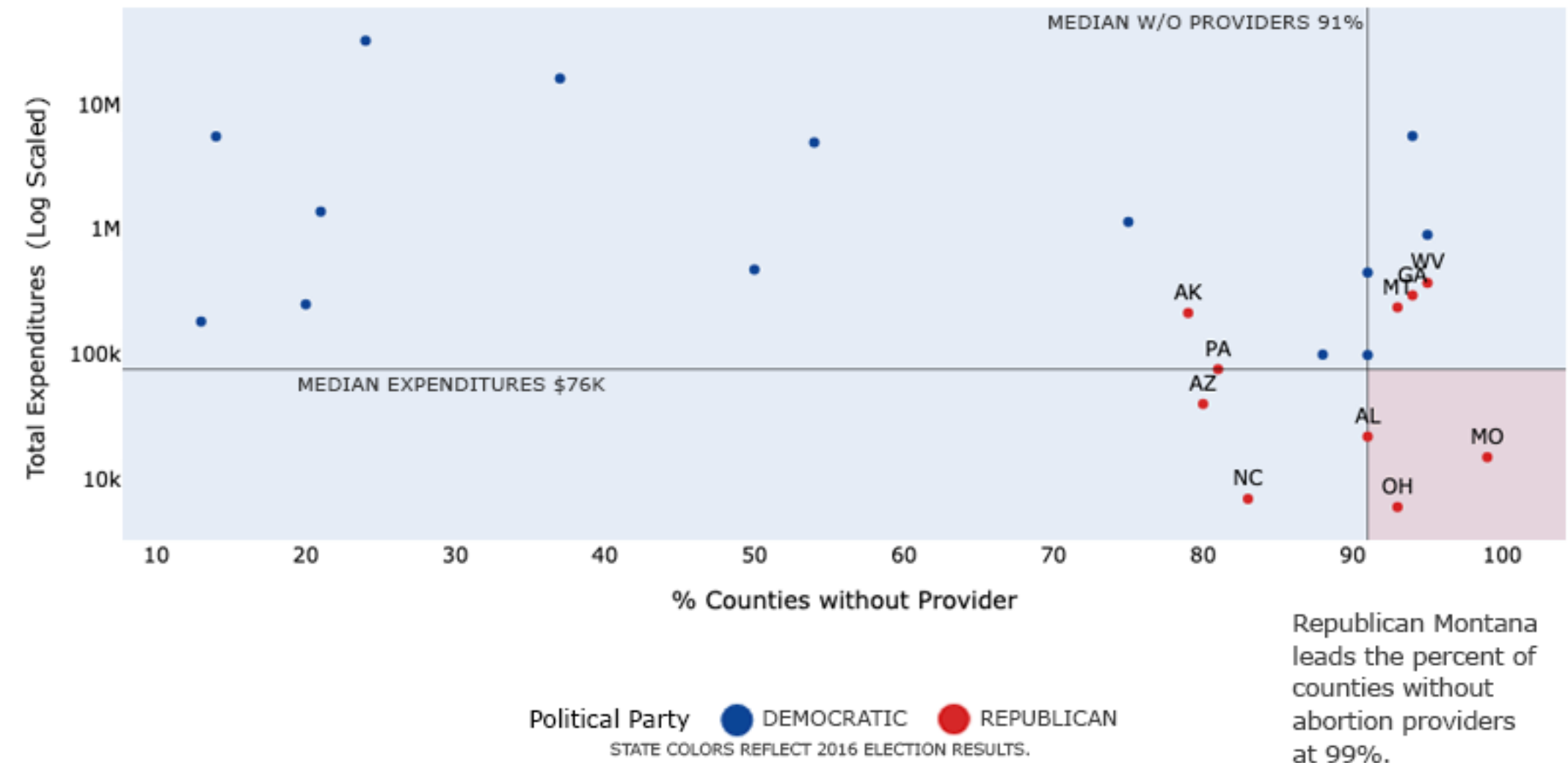
Republicans Underprovide Healthcare Services

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...

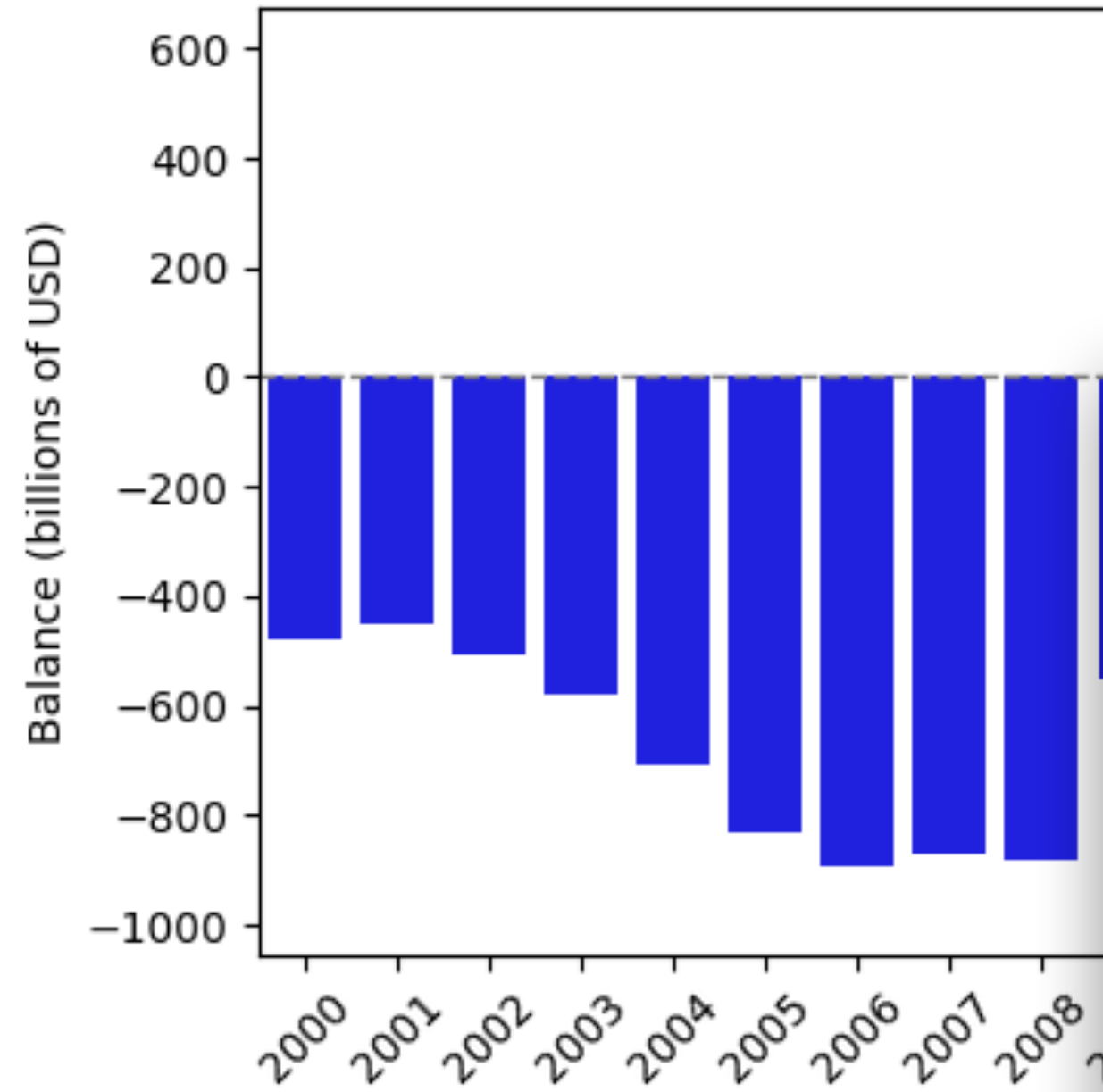
...Republican states increasingly lack abortion providers and insufficiently fund healthcare services.



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

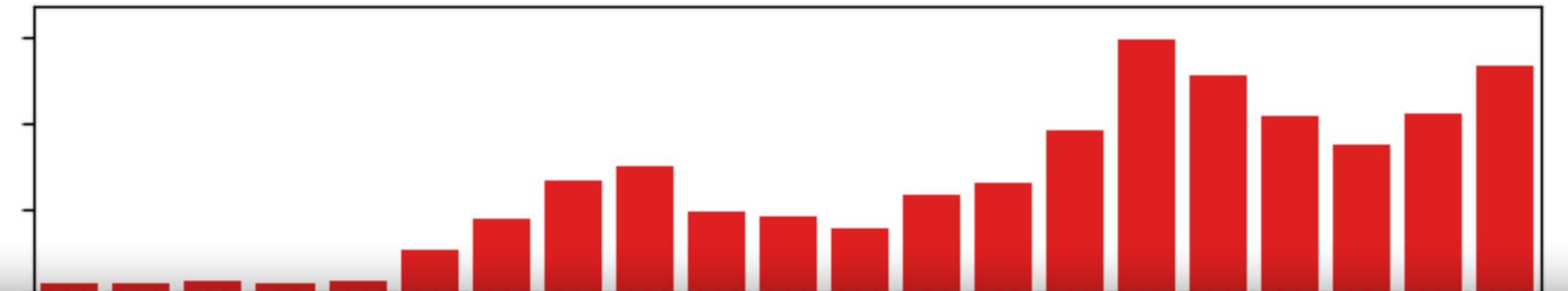
How Unfair Trade Practices Shaped the Increasing Divergence in Trade Balance Between the U.S. and China

United States Merchandise Trade Balance



Source: World Bank

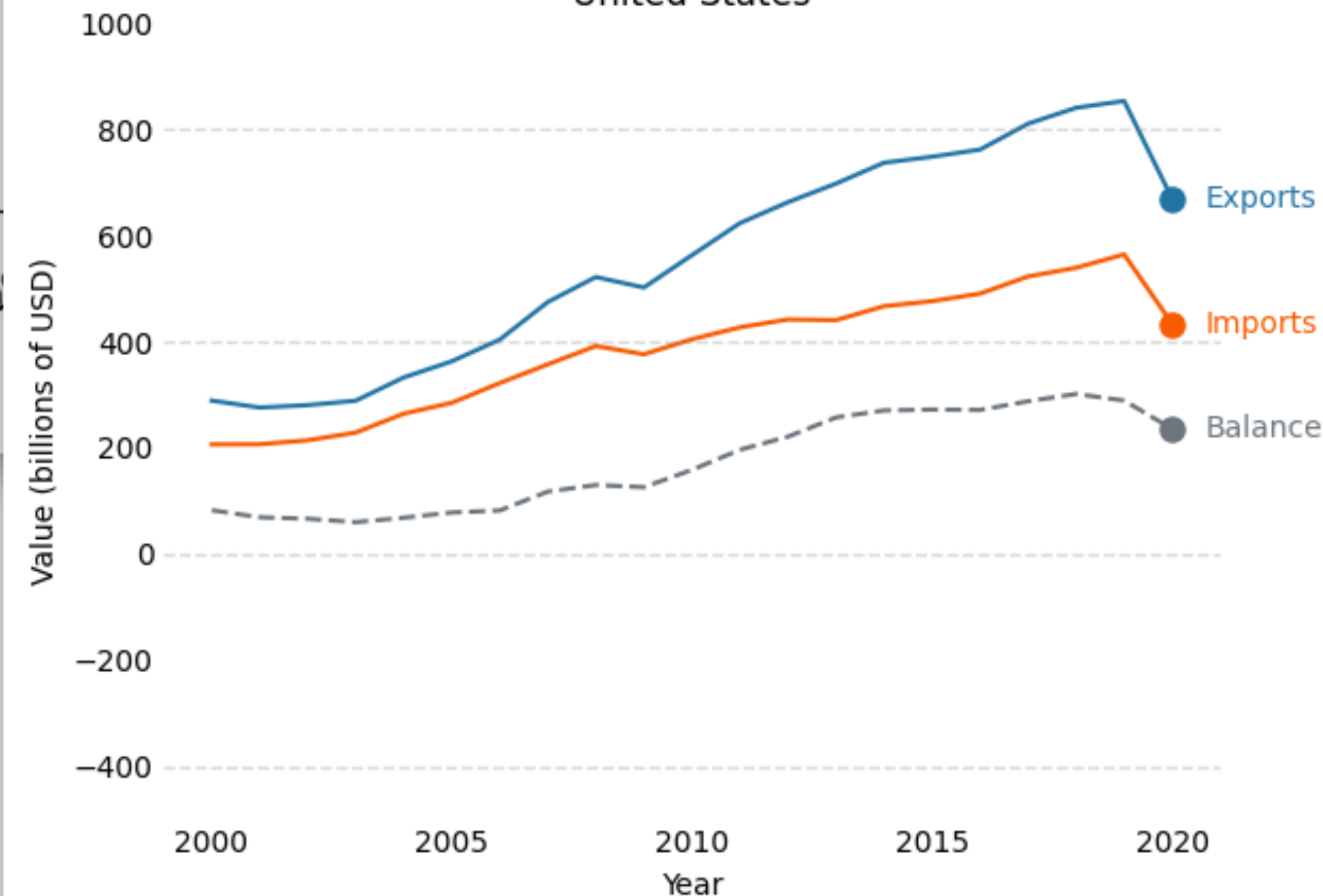
China Merchandise Trade Balance



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

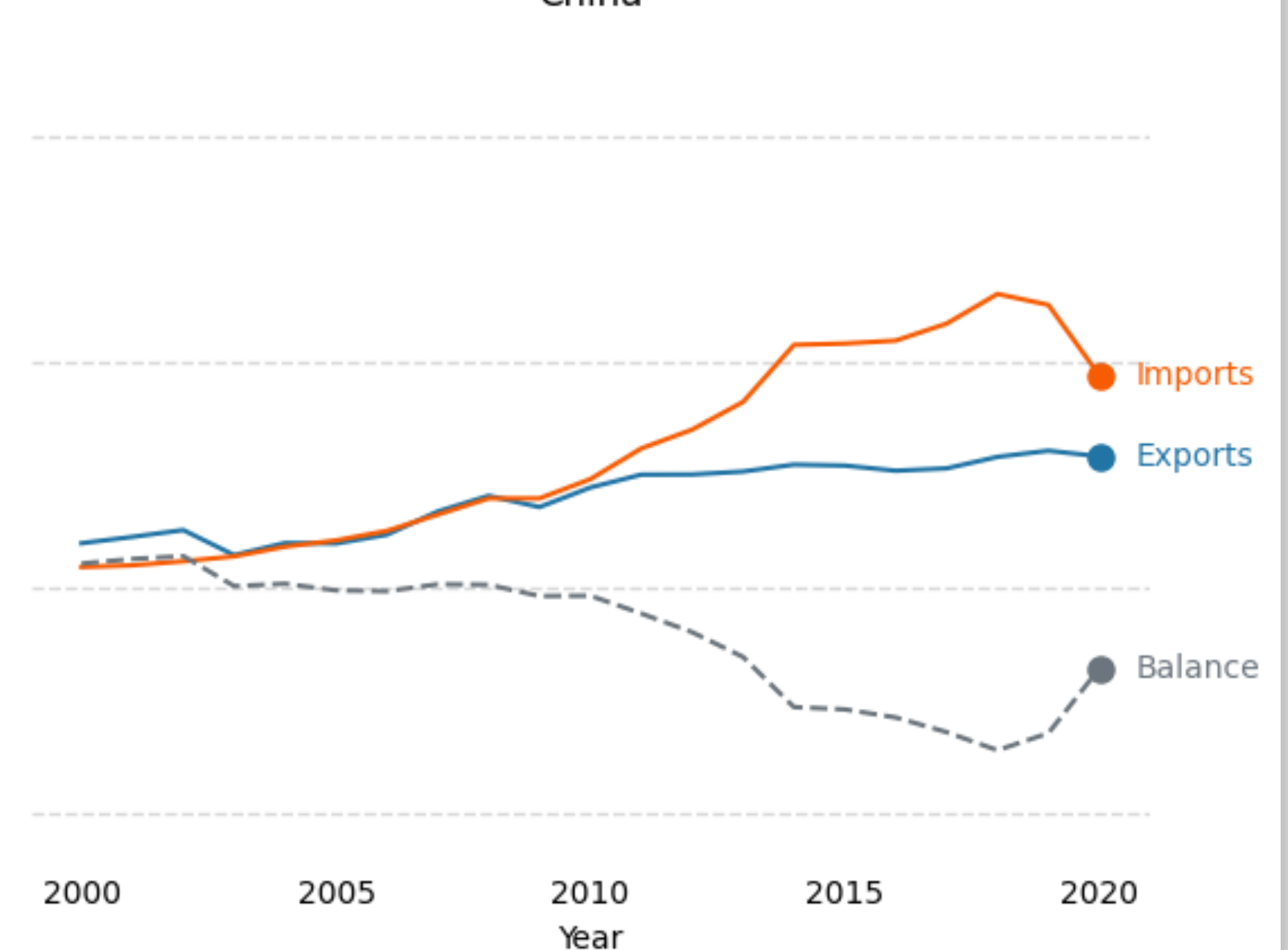
While China ships goods, the United States exports expertise, innovation, and global influence

United States

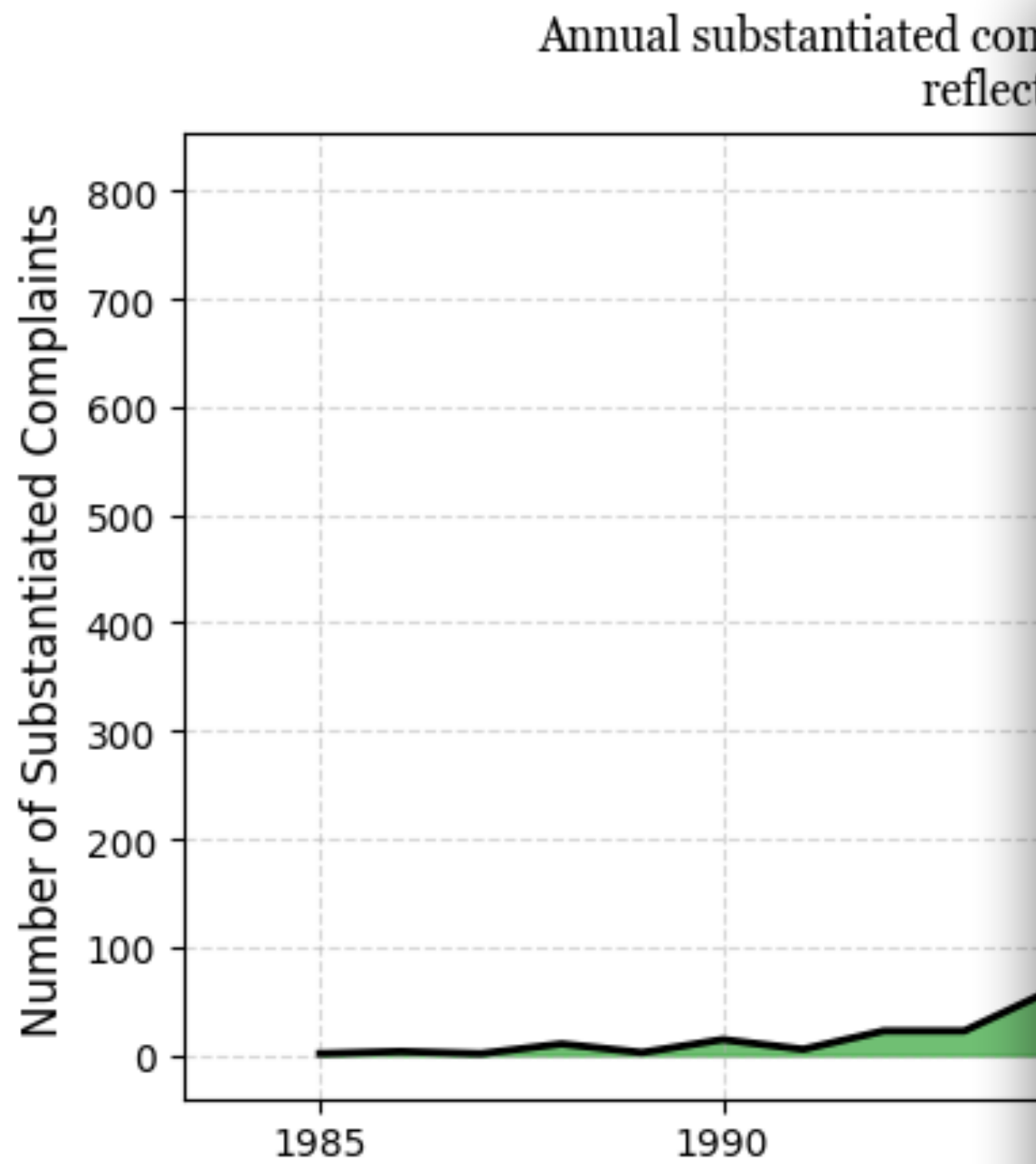


Source: World Bank

China

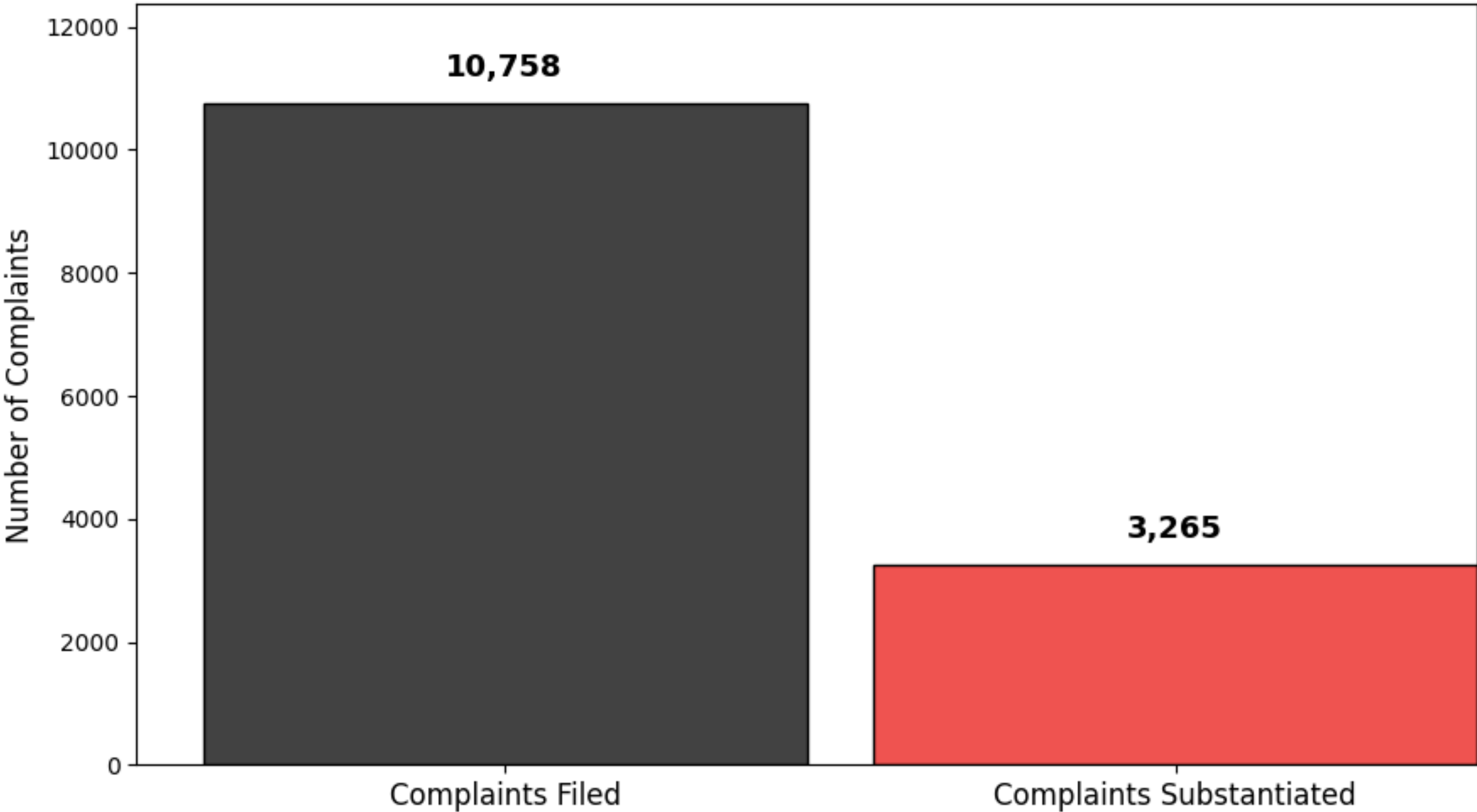


Every Year, More NYPD Officers Are Held Accountable



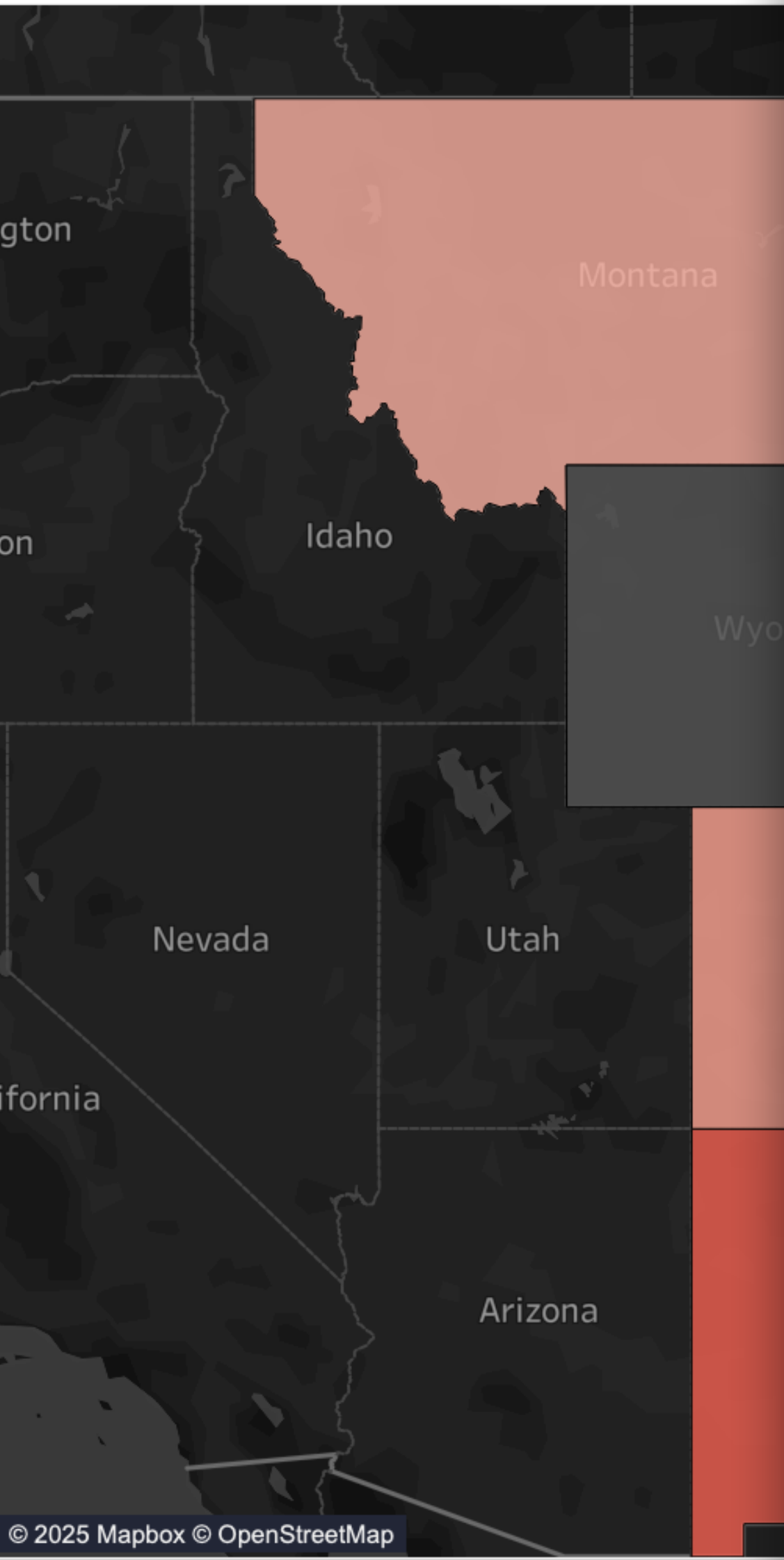
A Sea of Complaints. A Trickle of Accountability.

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

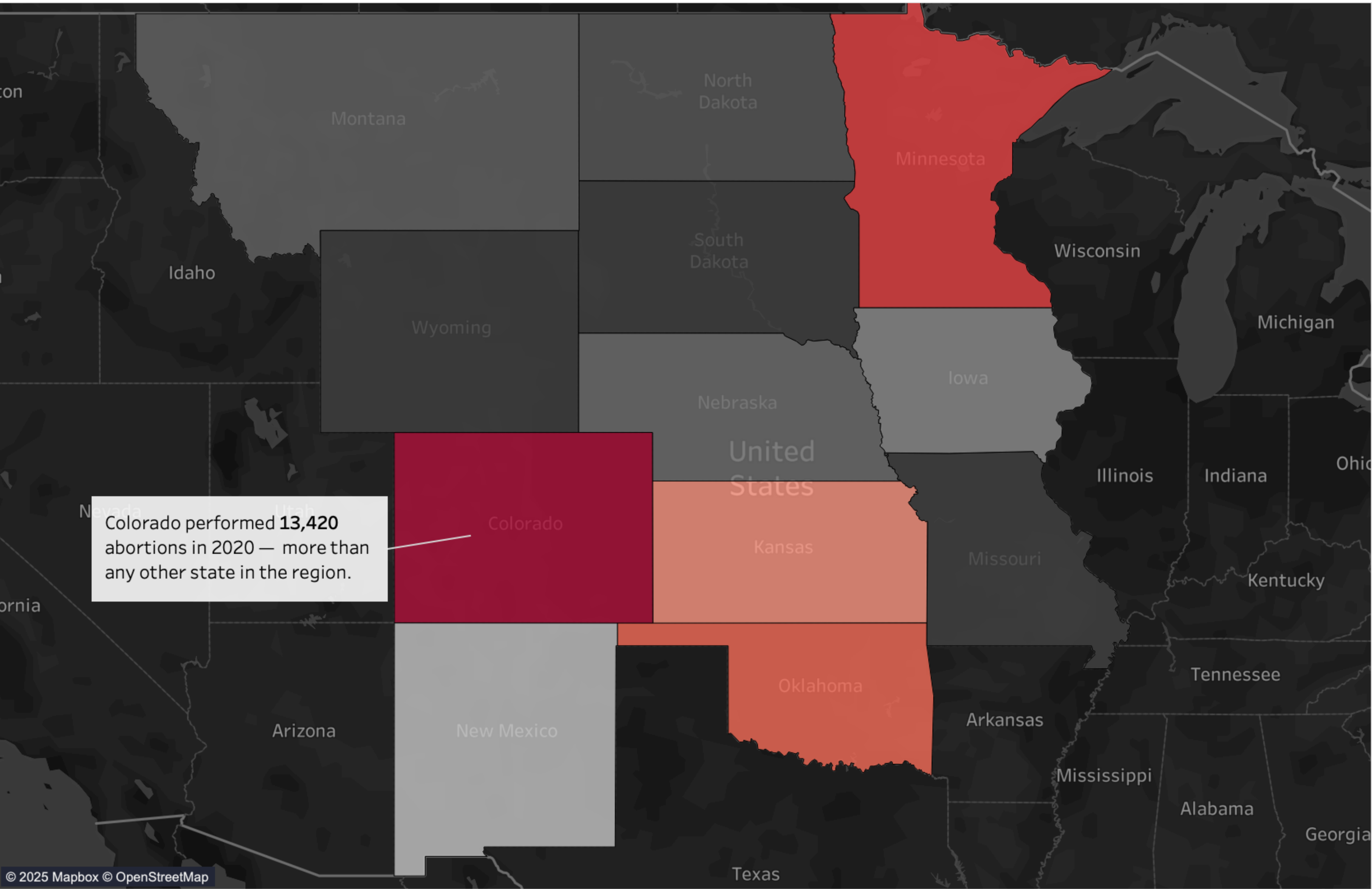
This map shows the abortion load ratio — in a state versus how many are for its res



A value above 1 means more people are tr

Colorado: Quietly Carrying the Region's Workload

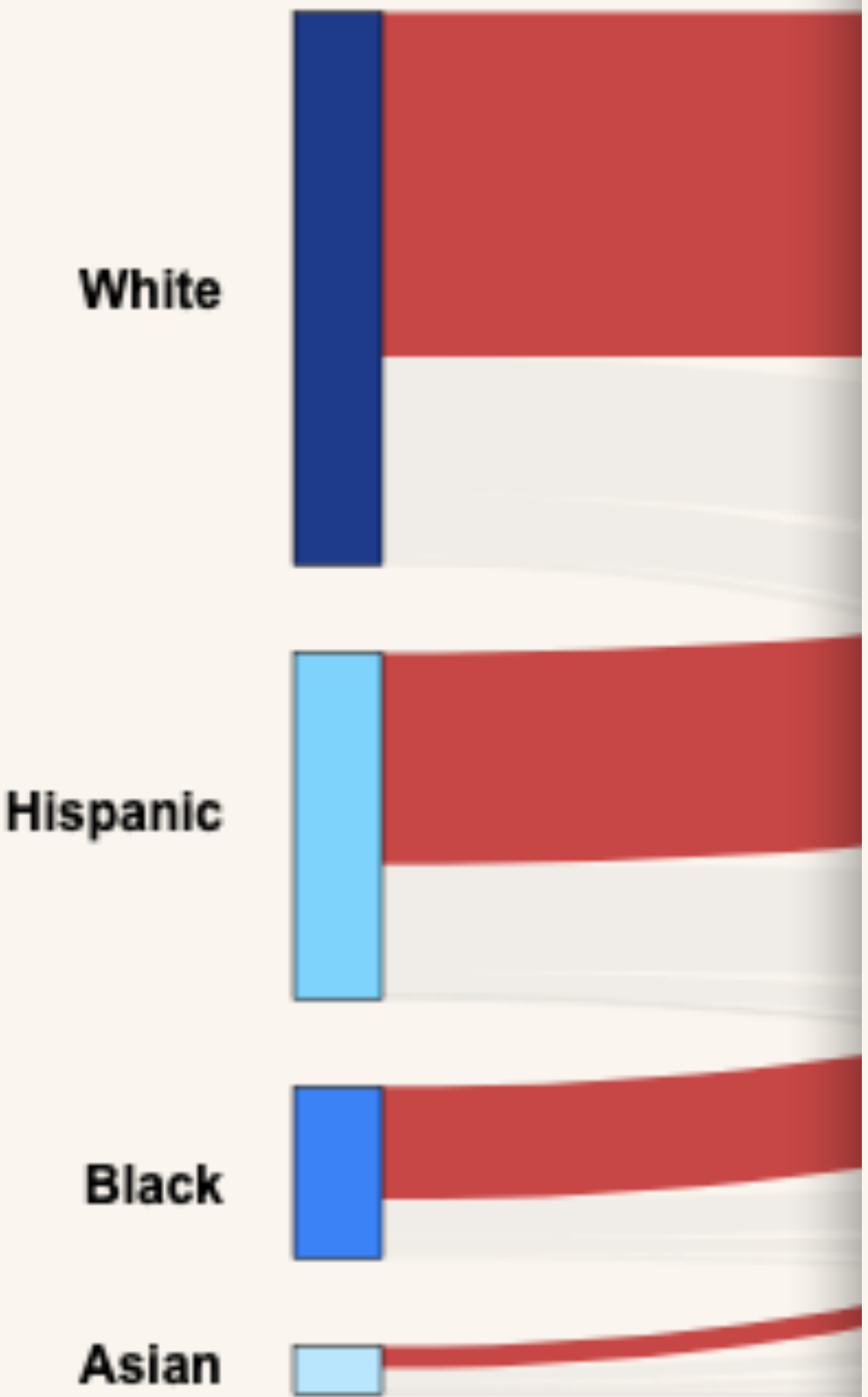
This map shows the number of abortions performed in each state in 2020, highlighting which states provide care for the broader region — not just their own residents.



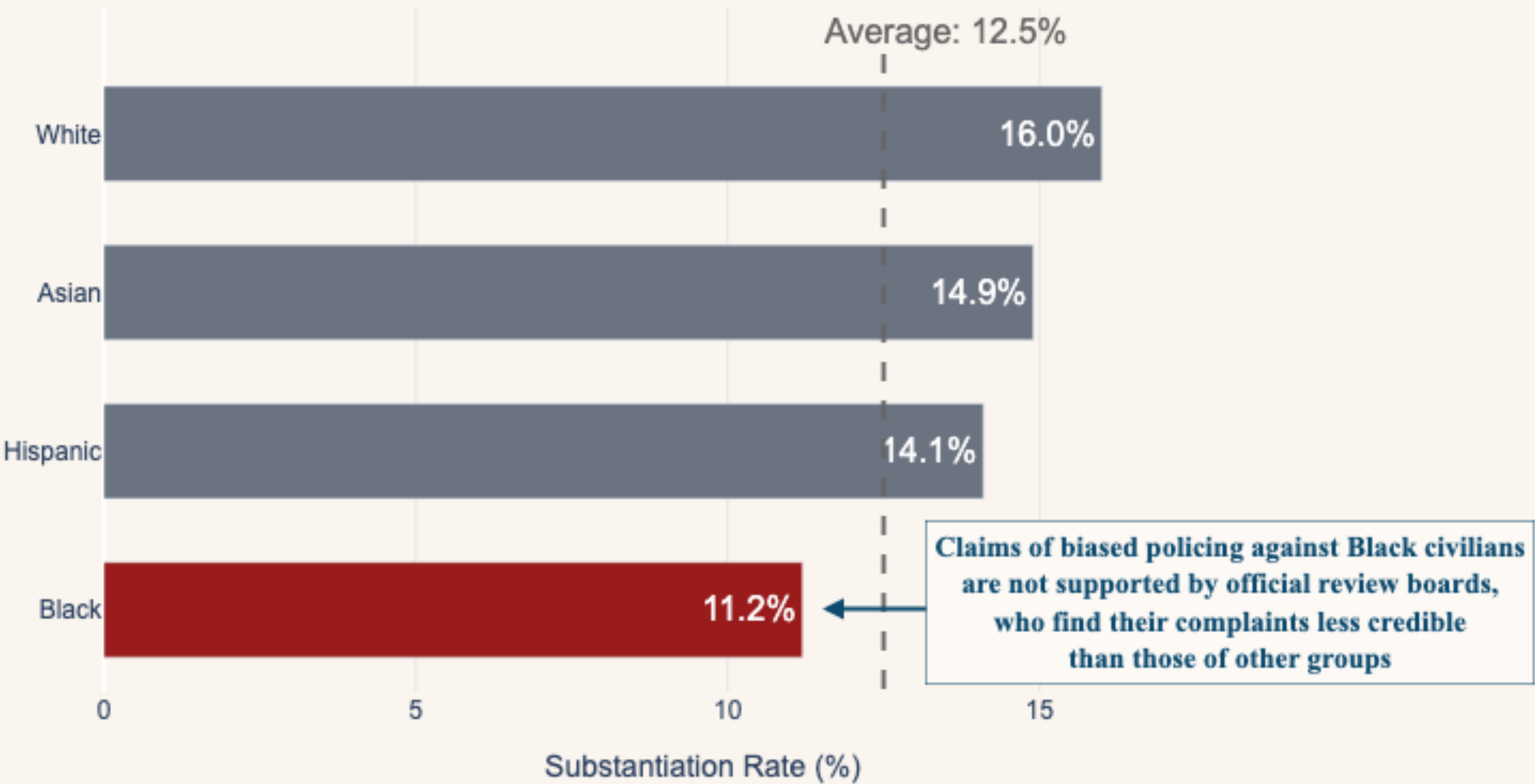
Lower totals may reflect fewer procedures, more residents traveling out-of-state, or limited clinic availability.

Black New Yorkers: Pri

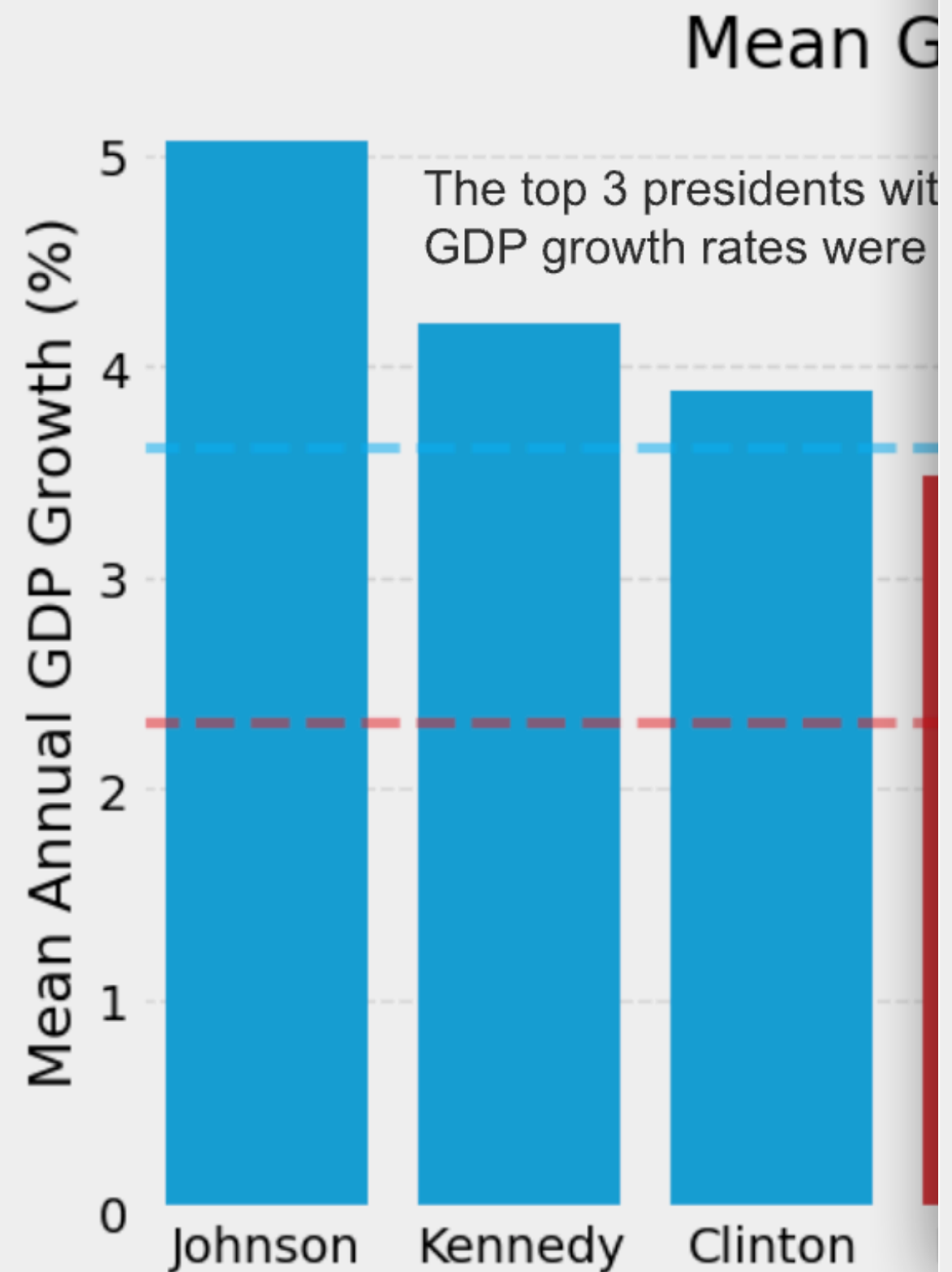
NYPD Officer Ethnicity



Black Civilians' Force Complaints Are Less Likely To Be Substantiated

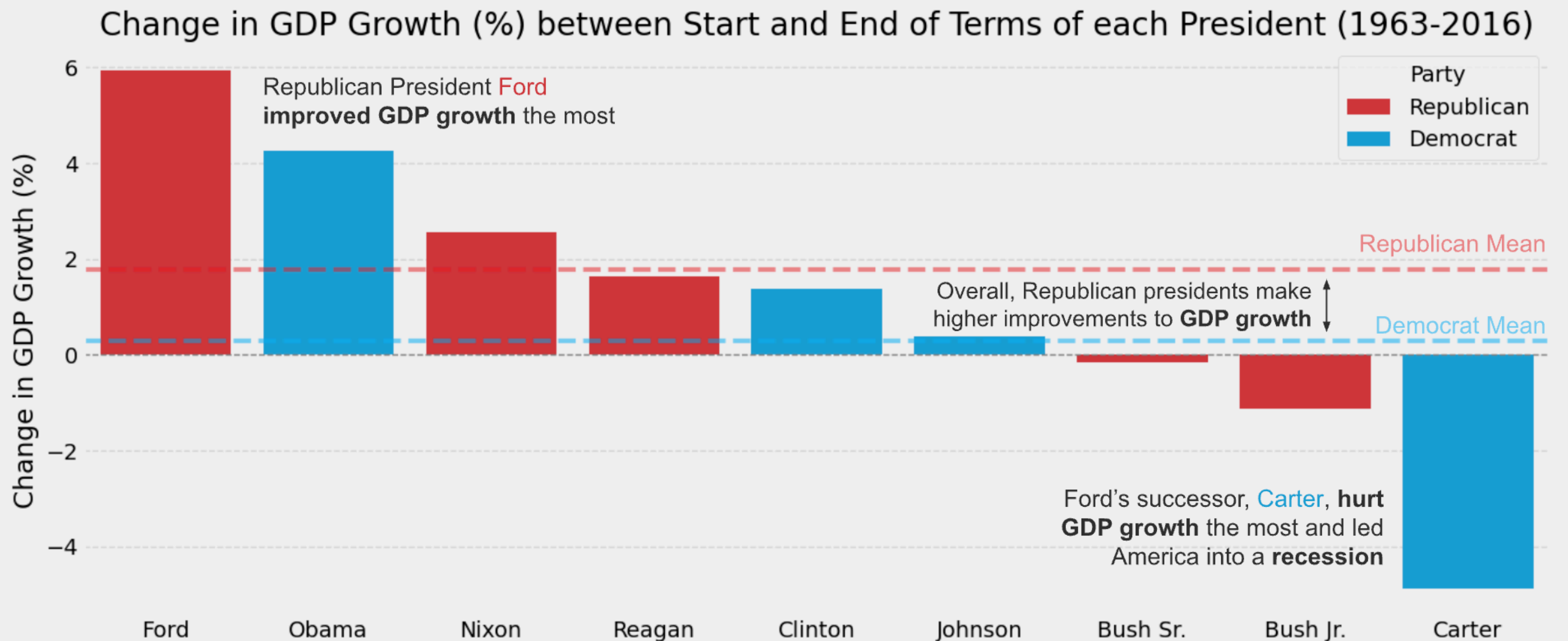


Who's the Fiscal Conservative? Democrats Lead



Source: The World Bank

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



Source: The World Bank

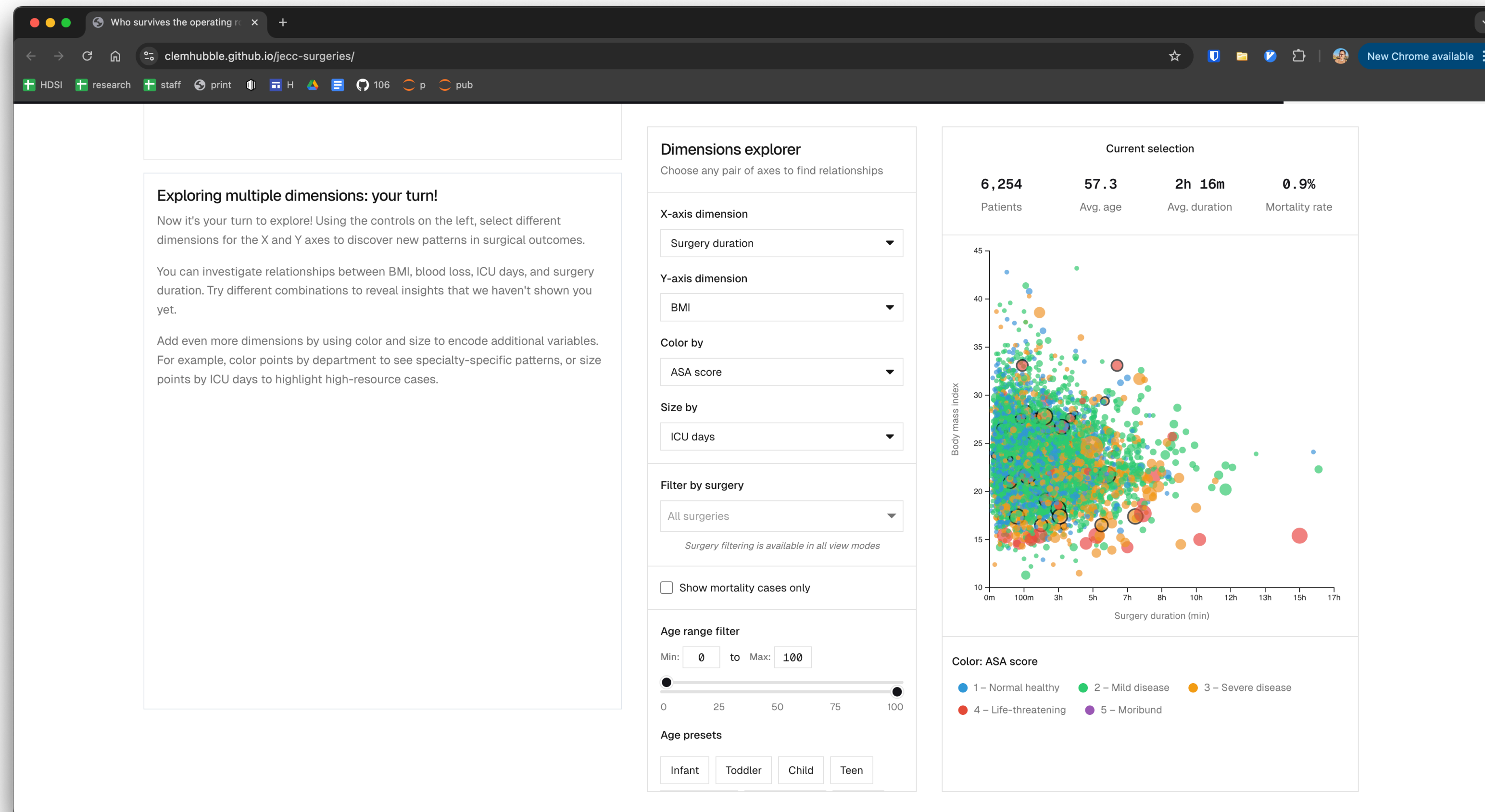
How today will work

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/>

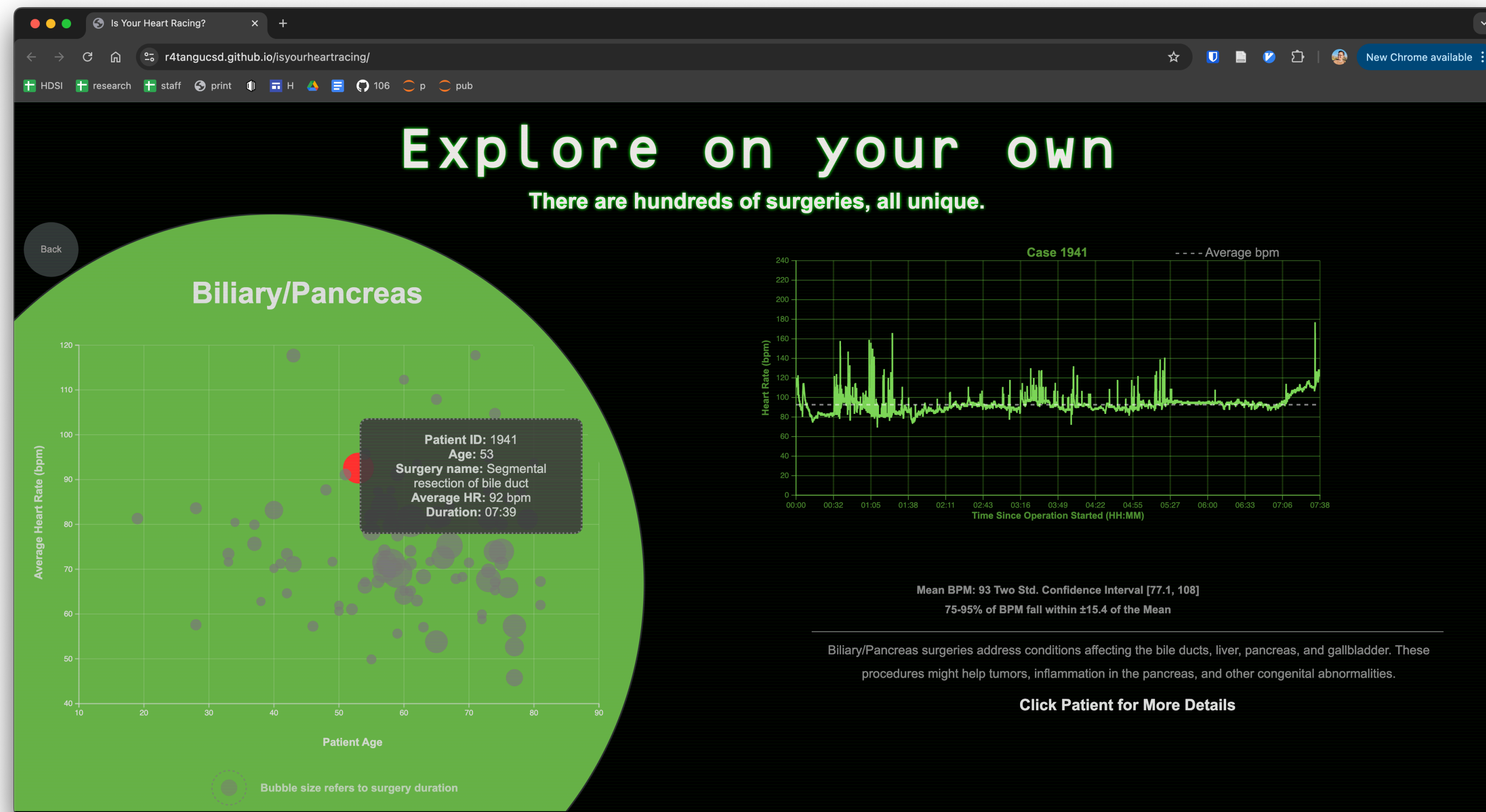
tryclassbuzz.com
Code: **oper**



Is Your Heart Racing?

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

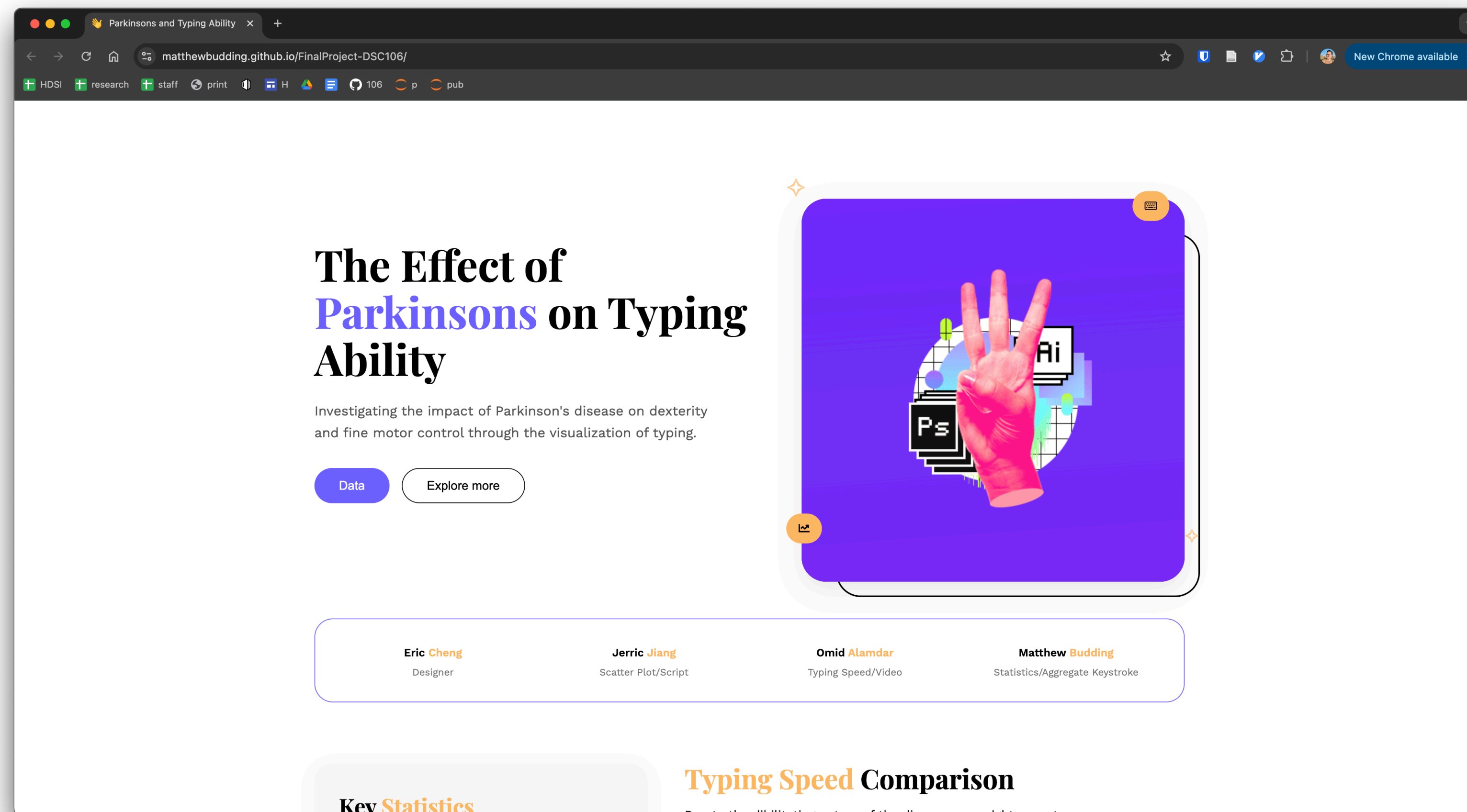
tryclassbuzz.com
Code: **racing**



The Effect of Parkinsons on Typing Ability

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

tryclassbuzz.com
Code: **park**



Gamify Unplugged: How Gamifying Surveys can Reduce Cognitive Load

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

tryclassbuzz.com
Code: **game**

The screenshot shows a web browser window with the URL `nglyry.github.io/Final-Proj-Dsc106/`. The page has a navigation bar with three buttons: "Survey", "Writeup", and "Gamified Survey". The main heading is "Gamify Unplugged: How Gamifying Surveys can Reduce Cognitive Load" in a blue, pixelated font. Below the heading, there is a paragraph explaining the importance of understanding cognitive load and productivity in the digital age. A horizontal line separates this text from the next paragraph, which states that gamification is a way to minimize cognitive load and encourages users to take a survey. At the bottom, a survey question is displayed: "Question 1: New ideas and projects sometimes distract me from previous ones." with three radio button options: "Very Much Like Me", "Mostly Like Me", and "Somewhat Like Me".

Survey Writeup Gamified Survey

Gamify Unplugged: How Gamifying Surveys can Reduce Cognitive Load

In today's digital age, it is important for both users and developers to understand the relationship between cognitive load and productivity. Cognitive load refers to the amount of mental energy required to interpret and complete a task. Learning how to reduce cognitive load can improve user productivity, help deal with short attention spans, and encourage the retention of information—essential for new technology and the completion of day-to-day tasks.

One way to minimize cognitive load is through gamification—the act of incorporating game-like elements into non-game settings. To further understand this idea, please take the survey below!

Question 1

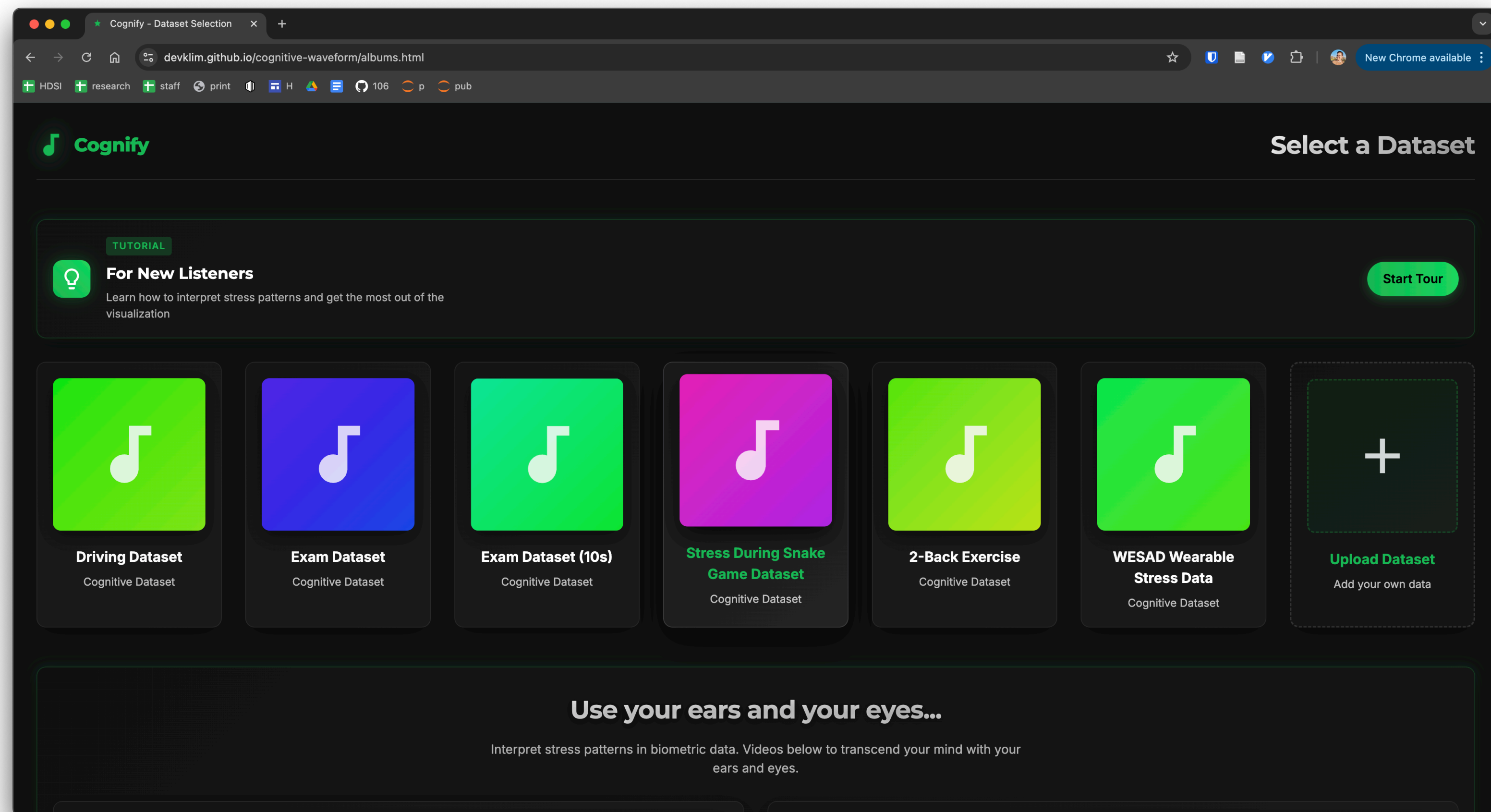
New ideas and projects sometimes distract me from previous ones.

☐ Very Much Like Me
☐ Mostly Like Me
☐ Somewhat Like Me

Cognify

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

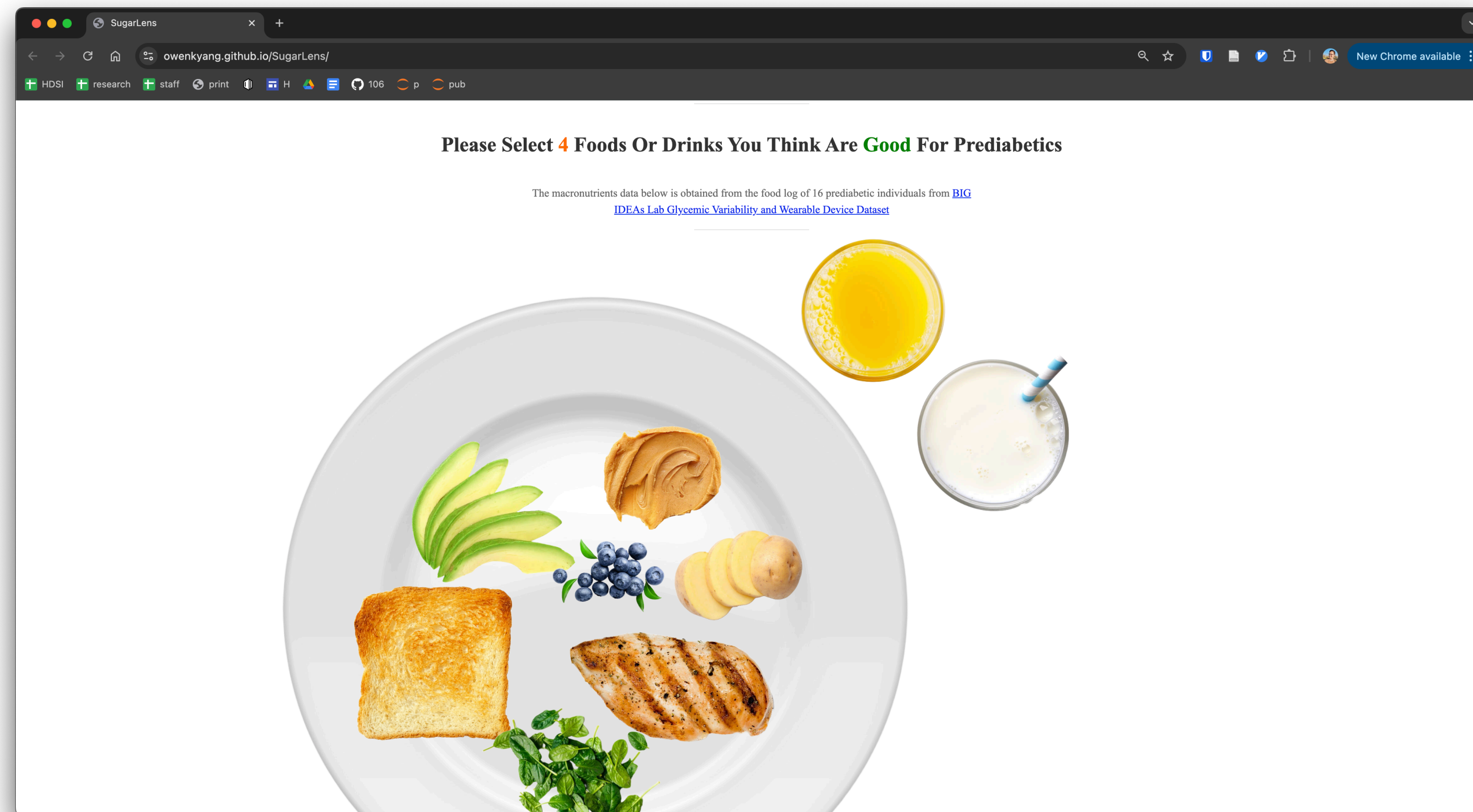
tryclassbuzz.com
Code: **cognify**



SugarLens

[tryclassbuzz.com](https://owenkyang.github.io/SugarLens/)
Code: **sugar**

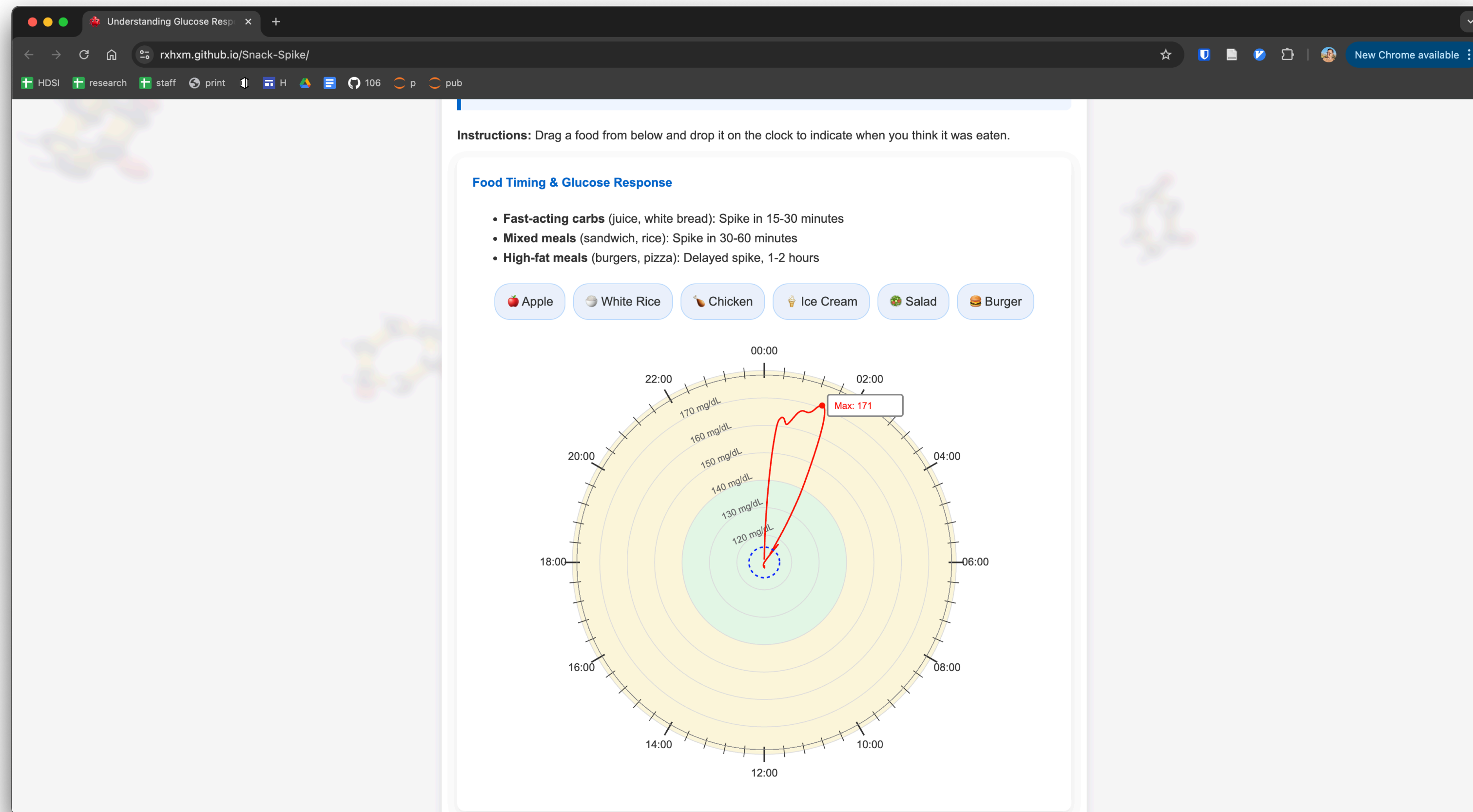
<https://owenkyang.github.io/SugarLens/>



Snack & Spike

tryclassbuzz.com
Code: **snack**

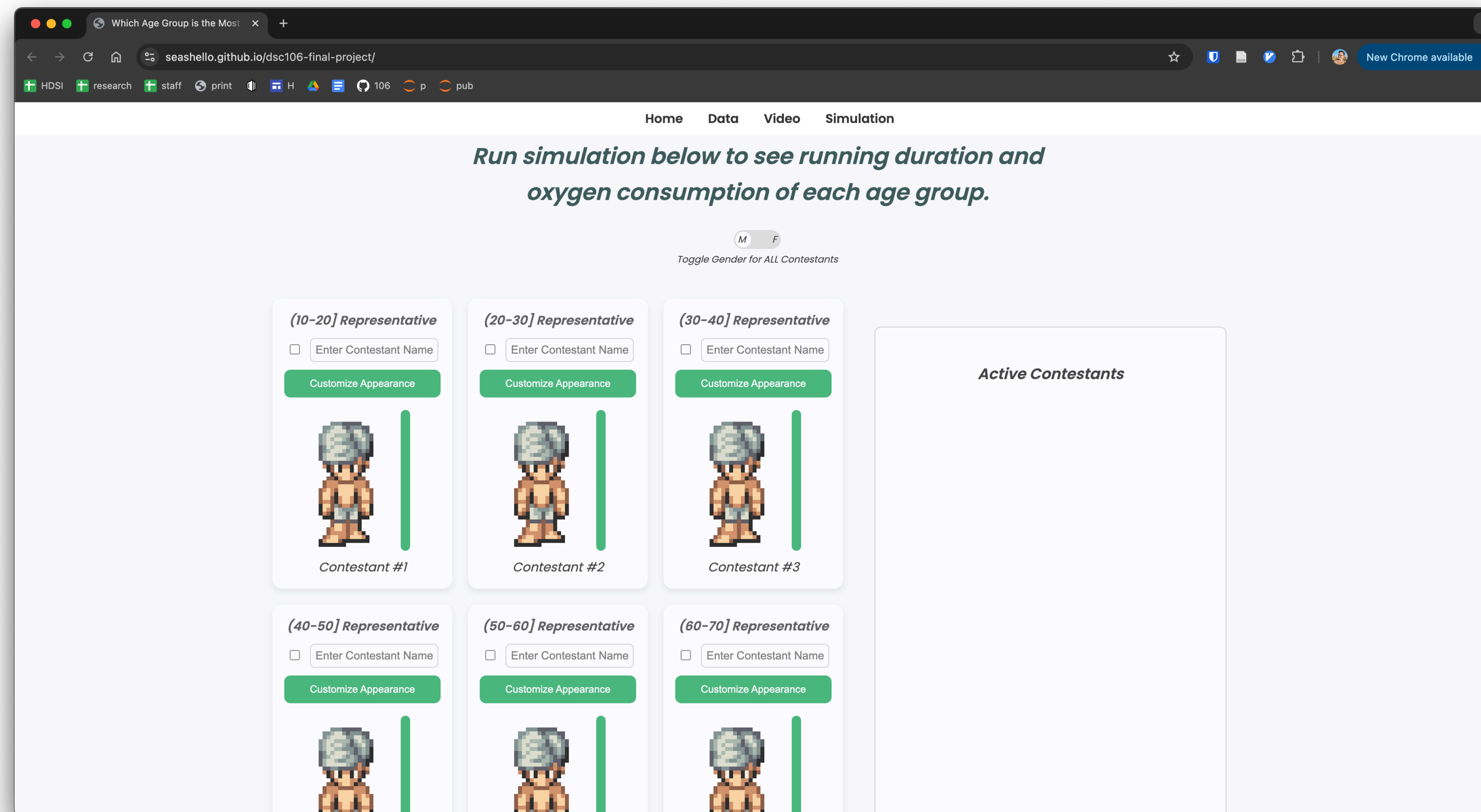
<https://rxhxm.github.io/Snack-Spike/>



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/>