

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

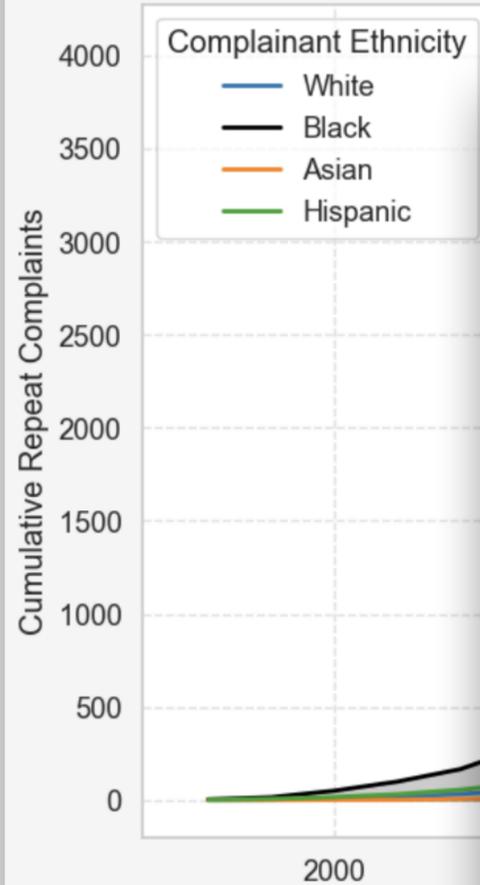
Include this on your resume!

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.

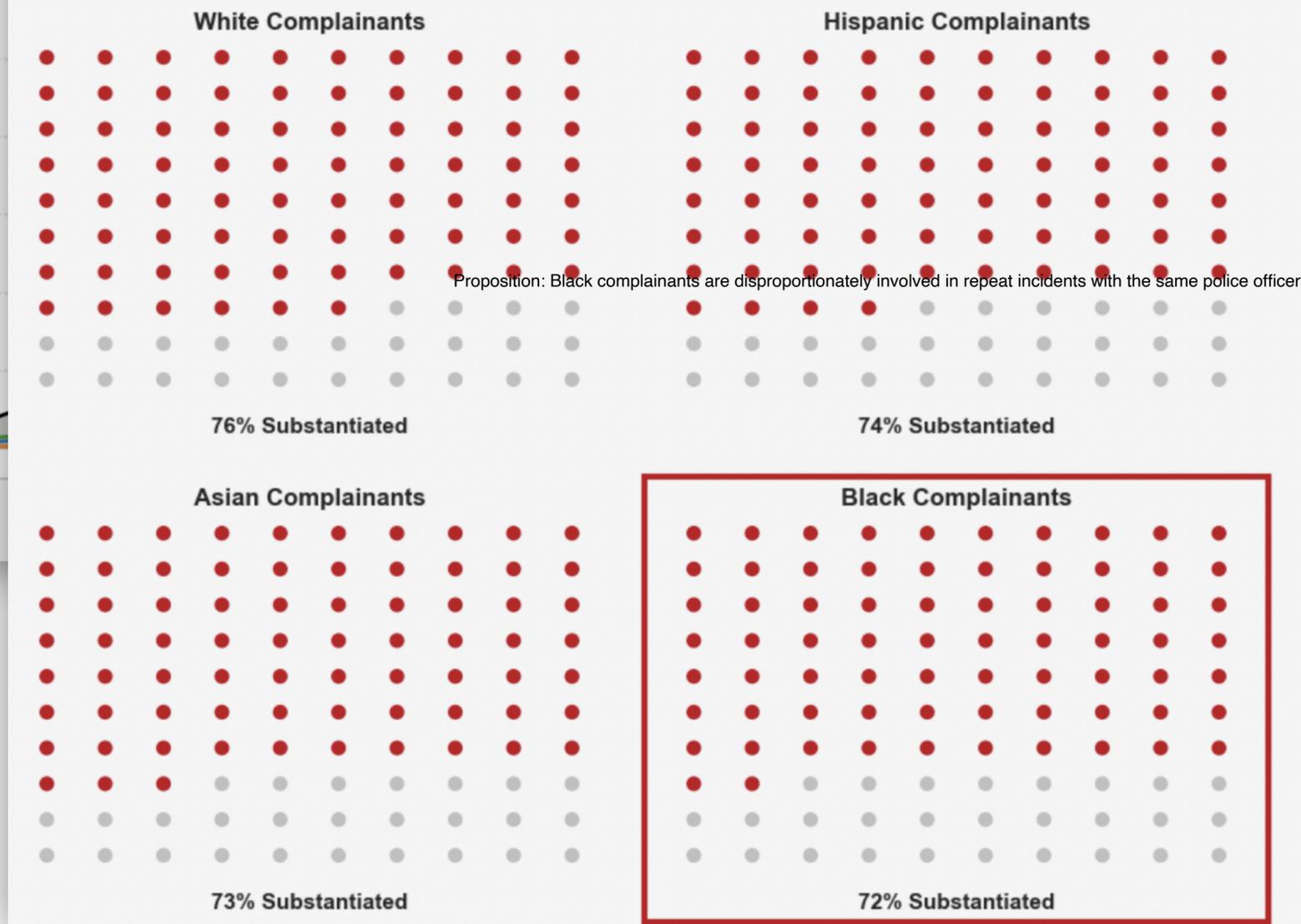
Black Complainants Drive Repeat Misconduct Trends

Black Complainants Are Most Likely to File Repeat Reports

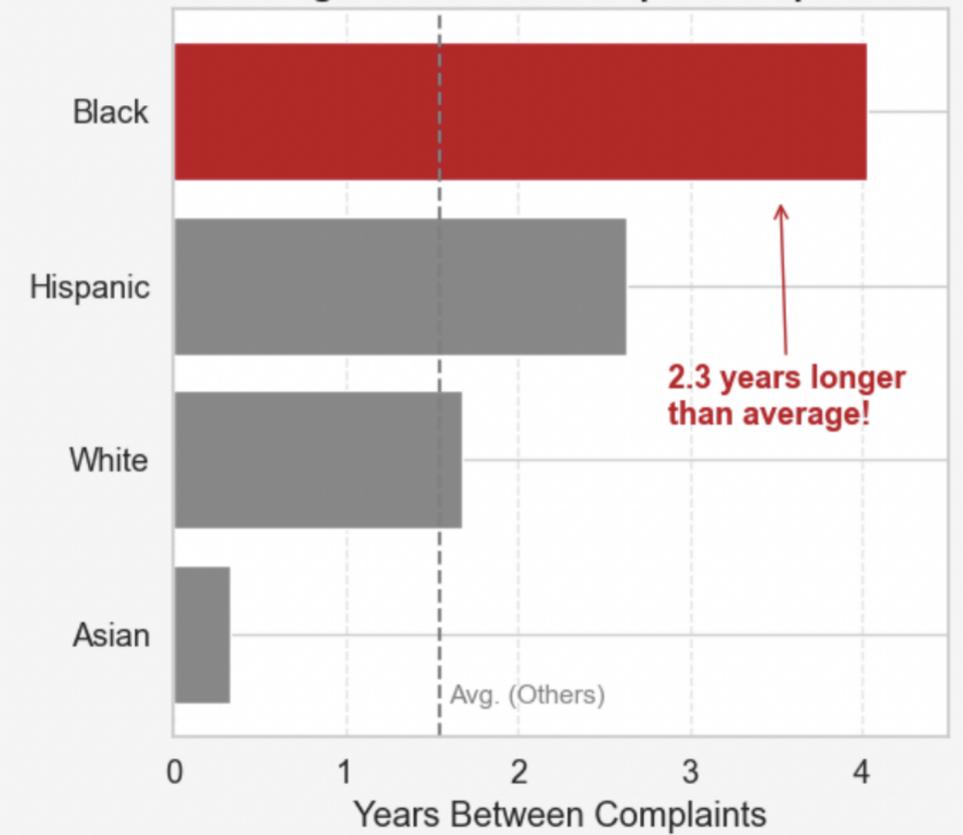


Substantiated Repeat Complaints Are Least Likely to Involve Black Civilians

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.

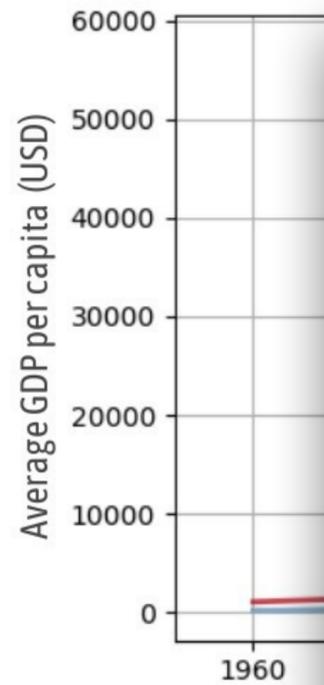


Average Time Between Repeat Complaints



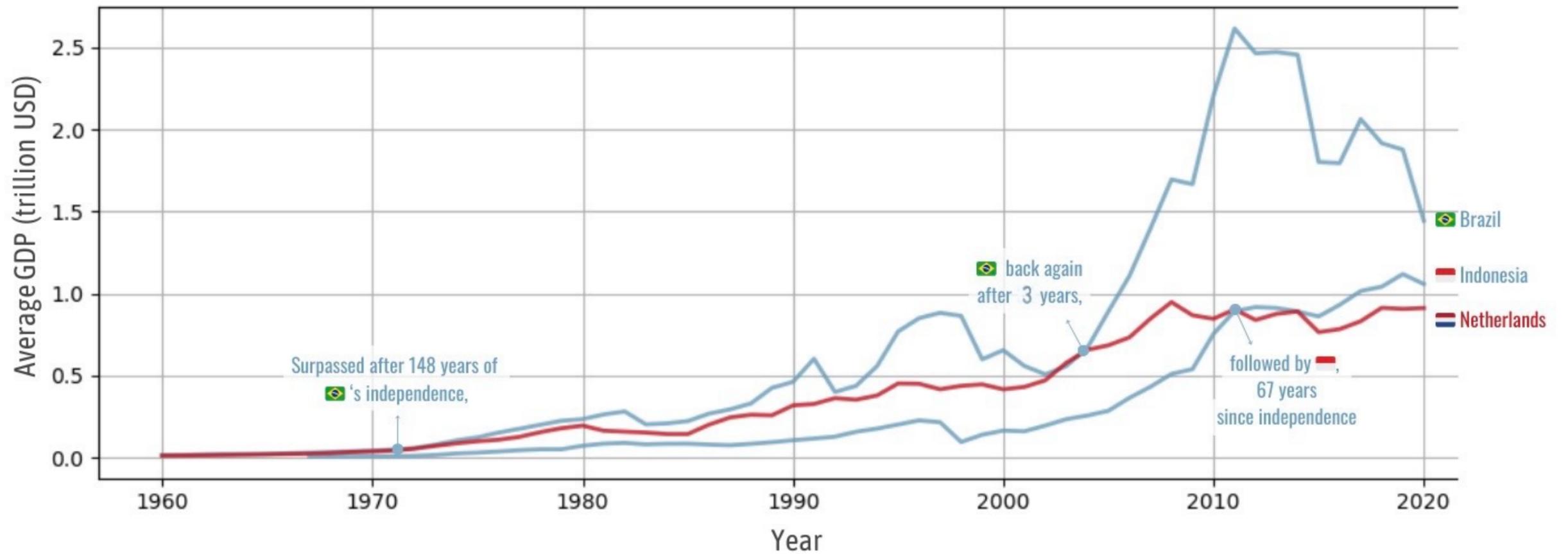
Beyond Independence: A Growing Divide

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



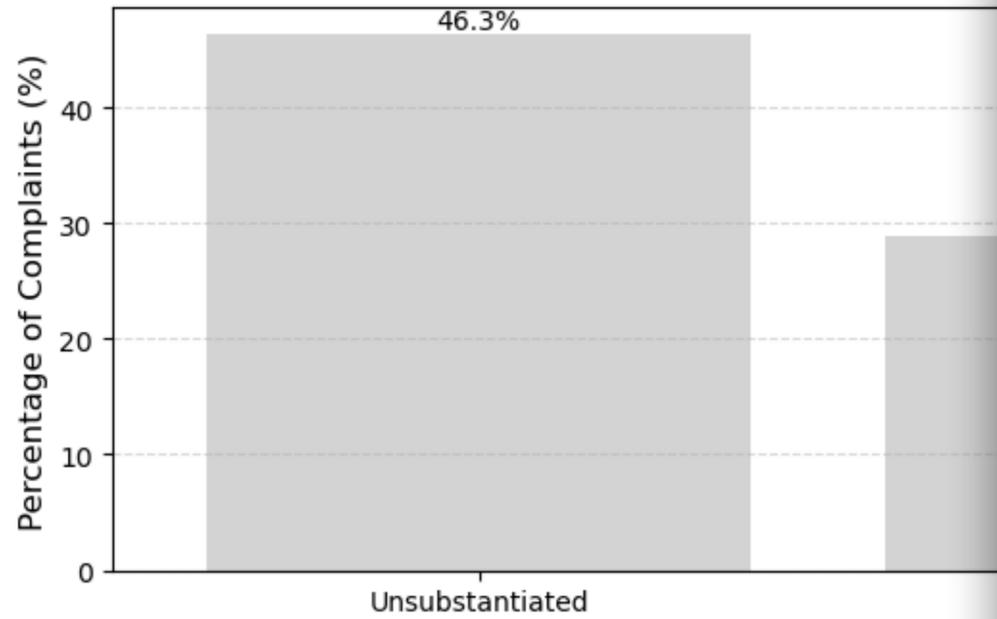
COLONIZED, NOW CAPITALIZED

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



NYPD: A Mast

Low substantiation and exoneration rates inc

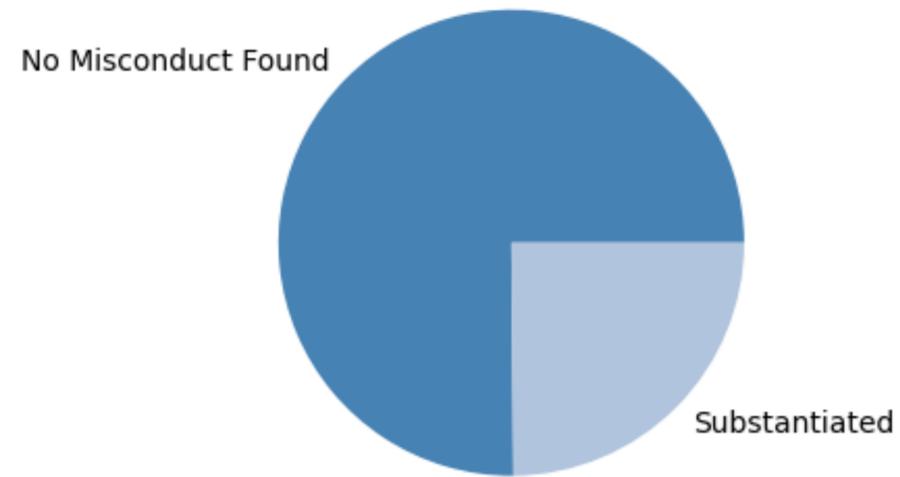


Civilian Complaints Against NYPD Have Surged Si



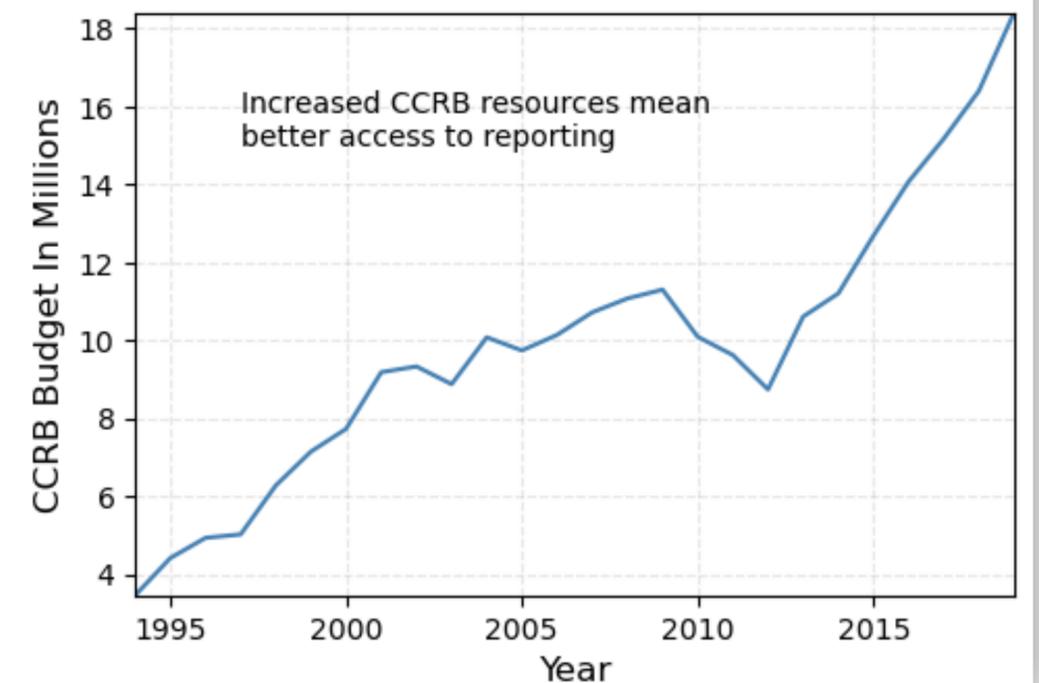
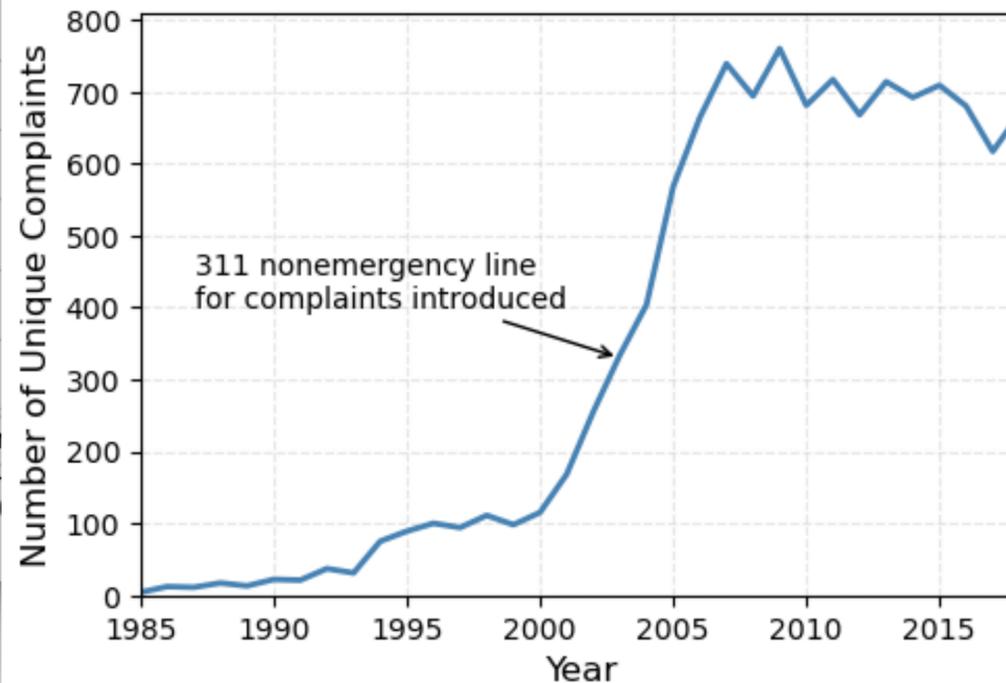
Boys In Blue On Good Behavior

Most Complaints Show No Wrongdoing



Mo' Money Mo' Problems

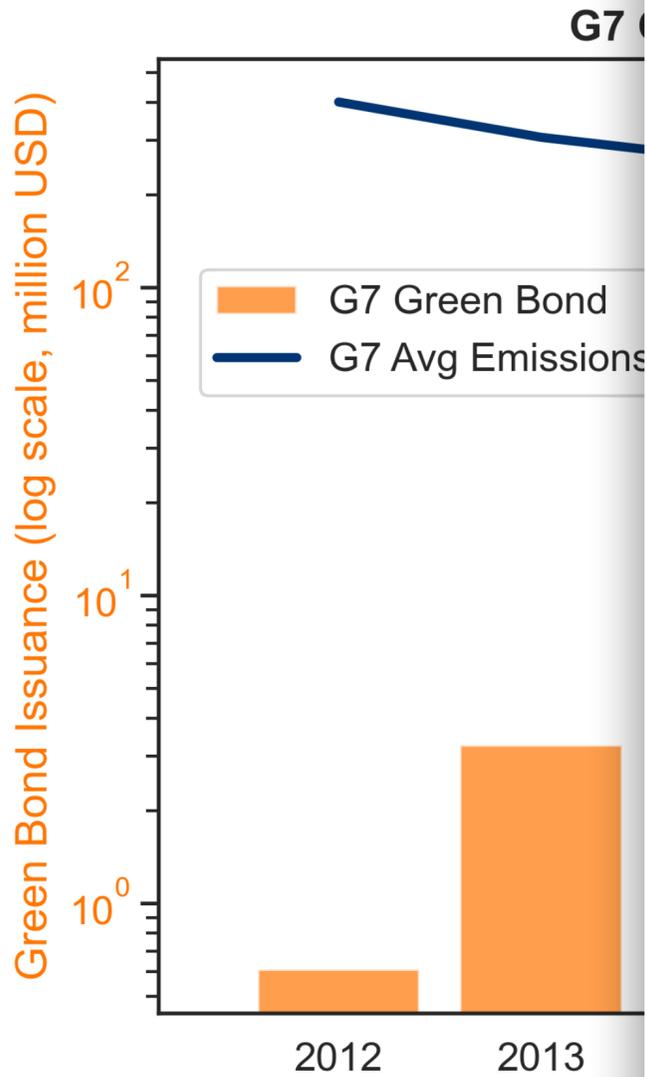
NYPD Complaints Increase Alongside CCRB Budget And Reporting Access



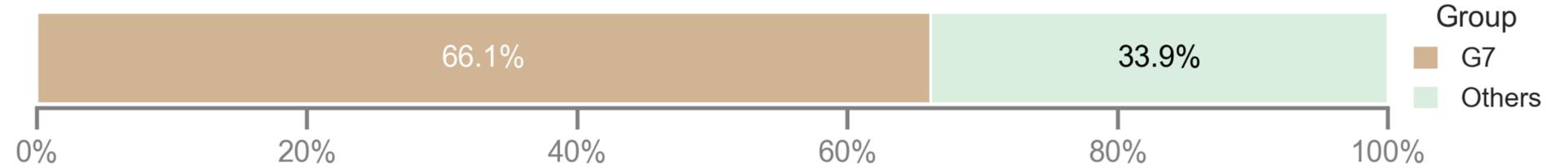
Leading the Fight or Leading the Emissions?

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.

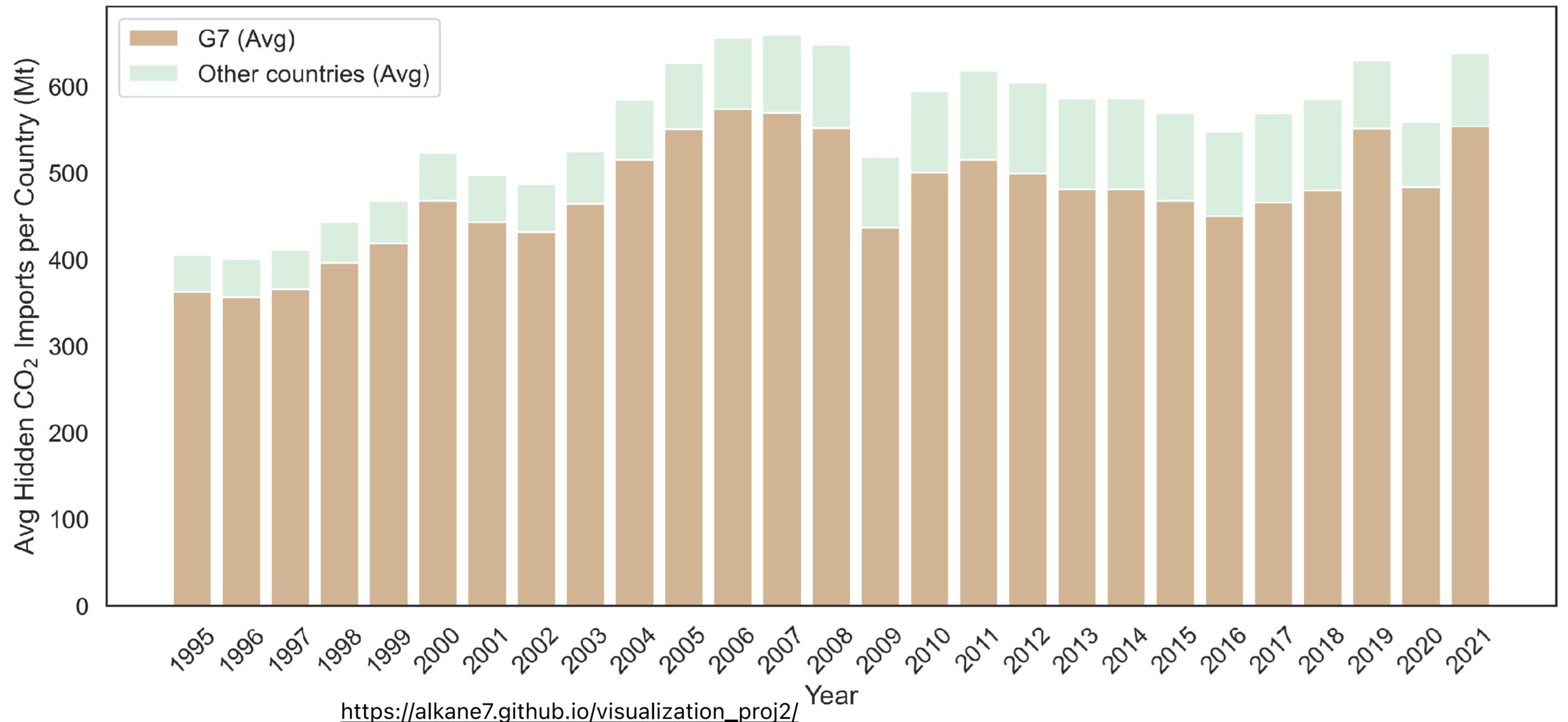
Wealthy Nations Are Leading



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

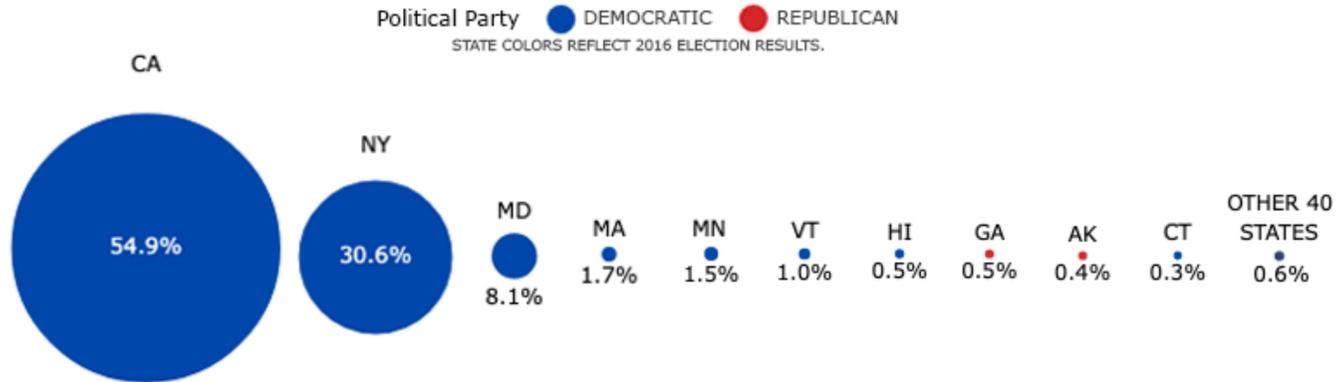


Avg Annual Hidden CO₂ Imports per Country: G7 vs Others



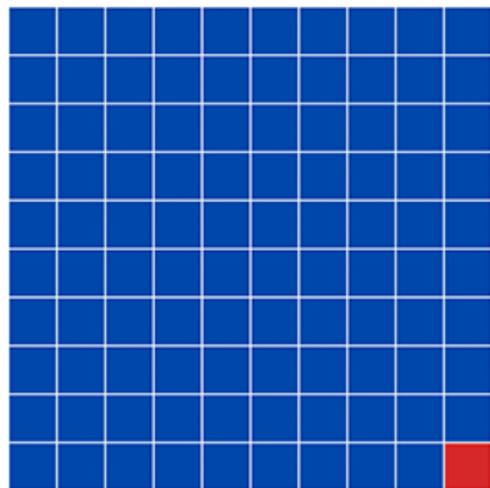
Democrats Readily Fund Teen Pregnancies and Abortions Share of National Abortion Budget Spent on Teens (Ages 15-17)

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 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



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.

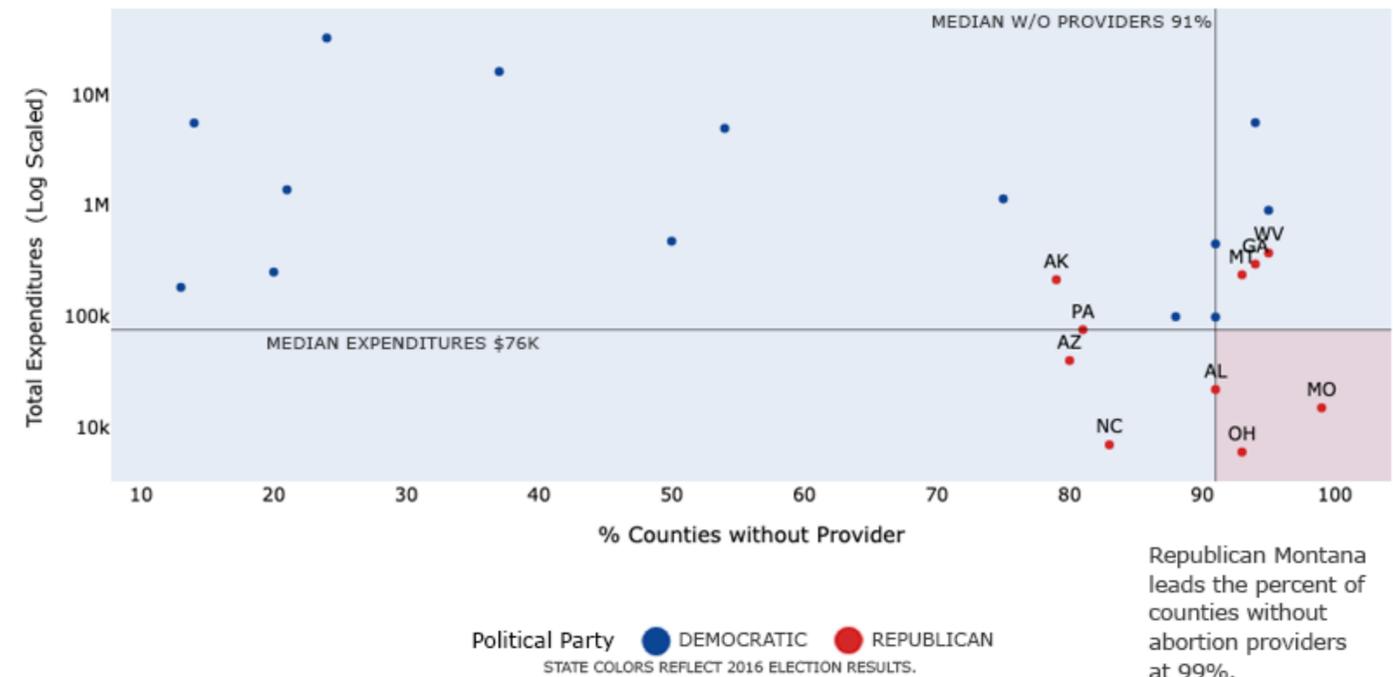
■ Democratic states: 99% ■ Republican states: 1%

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.

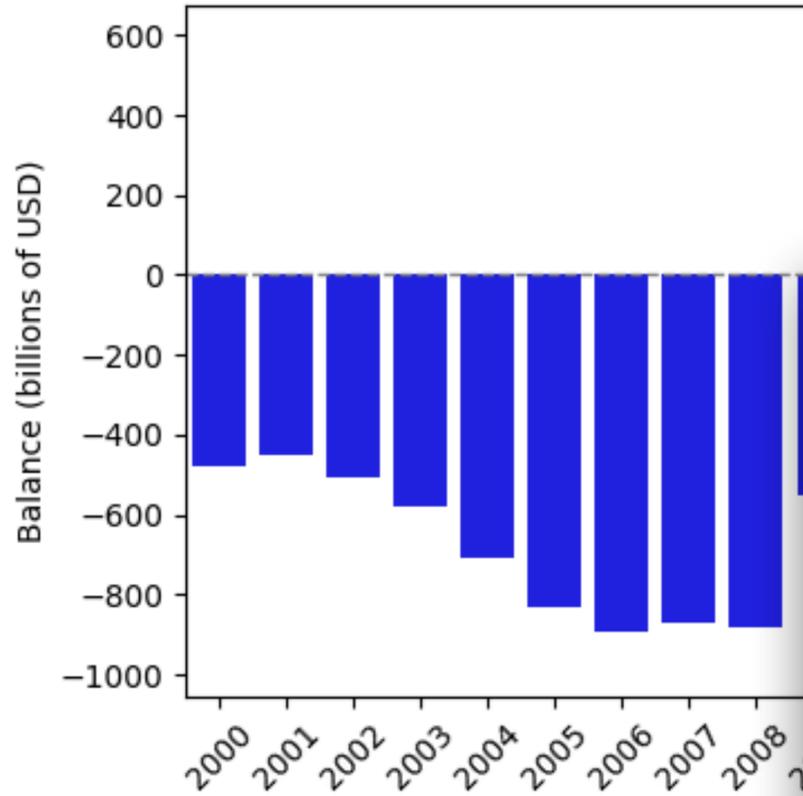


Republican Montana leads the percent of counties without abortion providers at 99%.

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

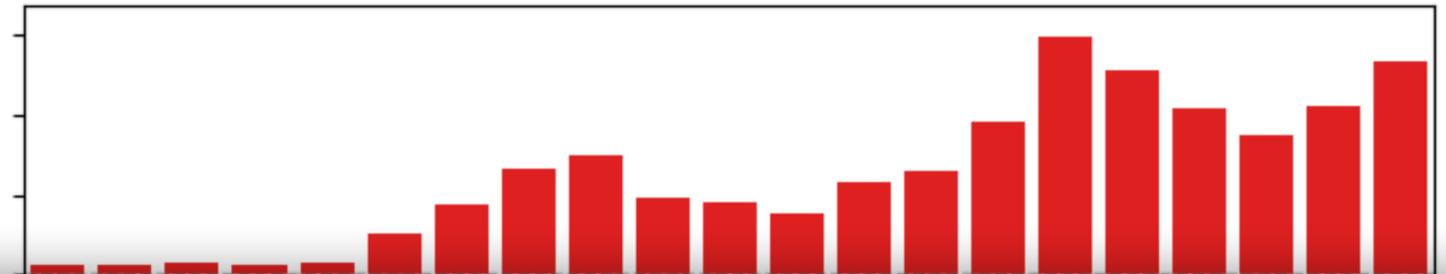
How Unfair Trade Practices Shaped the Increasing Divergence in Trade Balance Between the U.S. and China

United States Merchandise Trade Balance



Source: World Bank

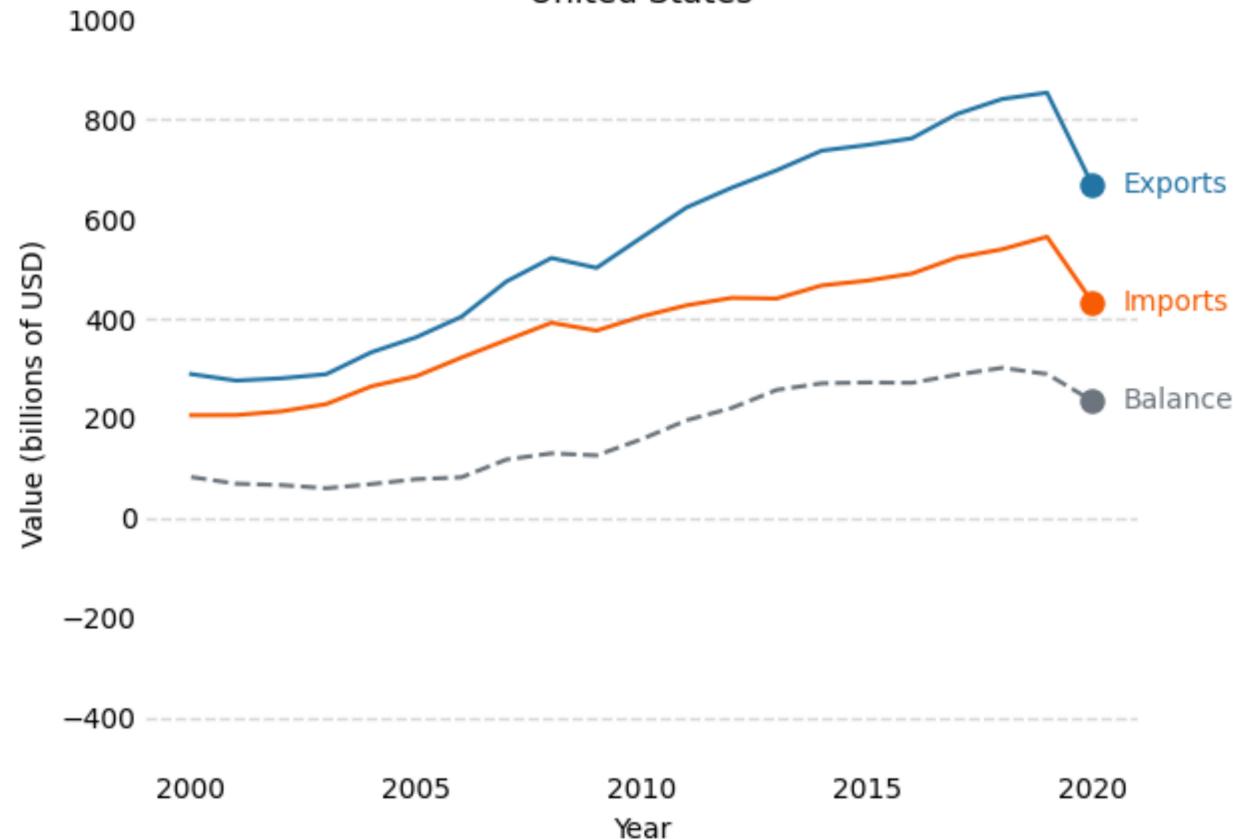
China Merchandise Trade Balance



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

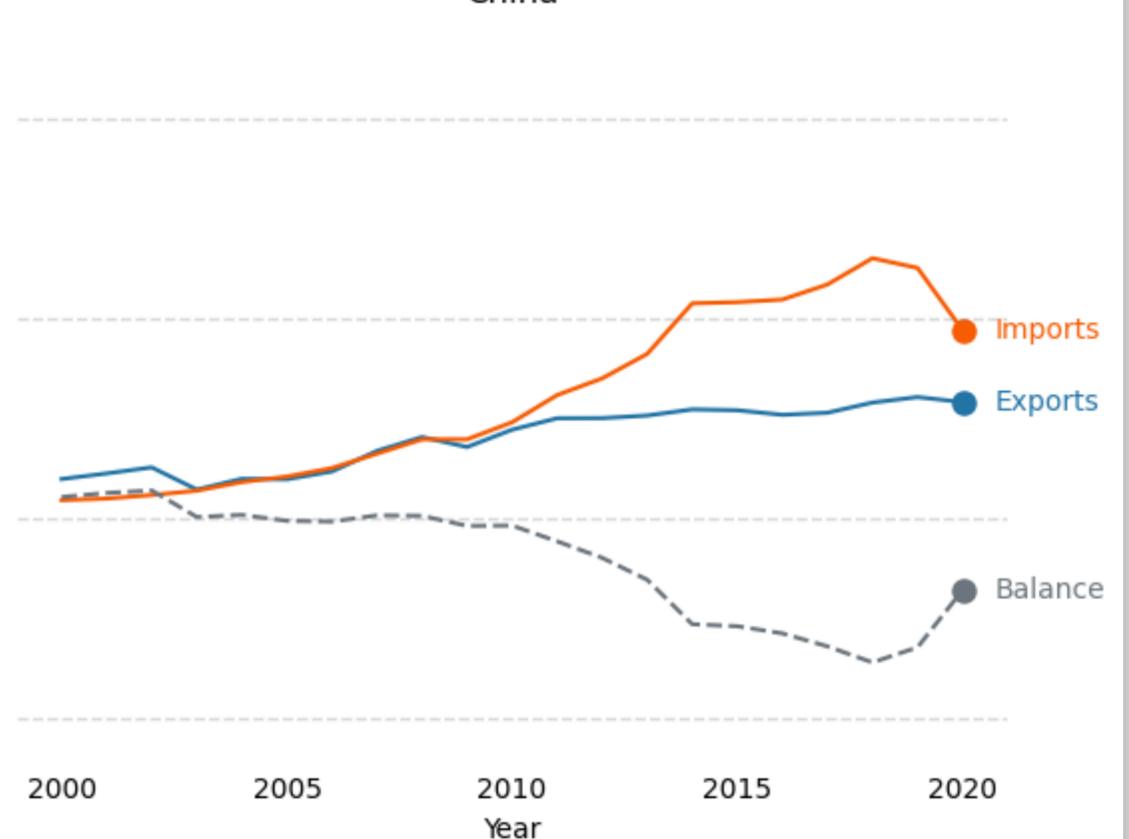
While China ships goods, the United States exports expertise, innovation, and global influence

United States



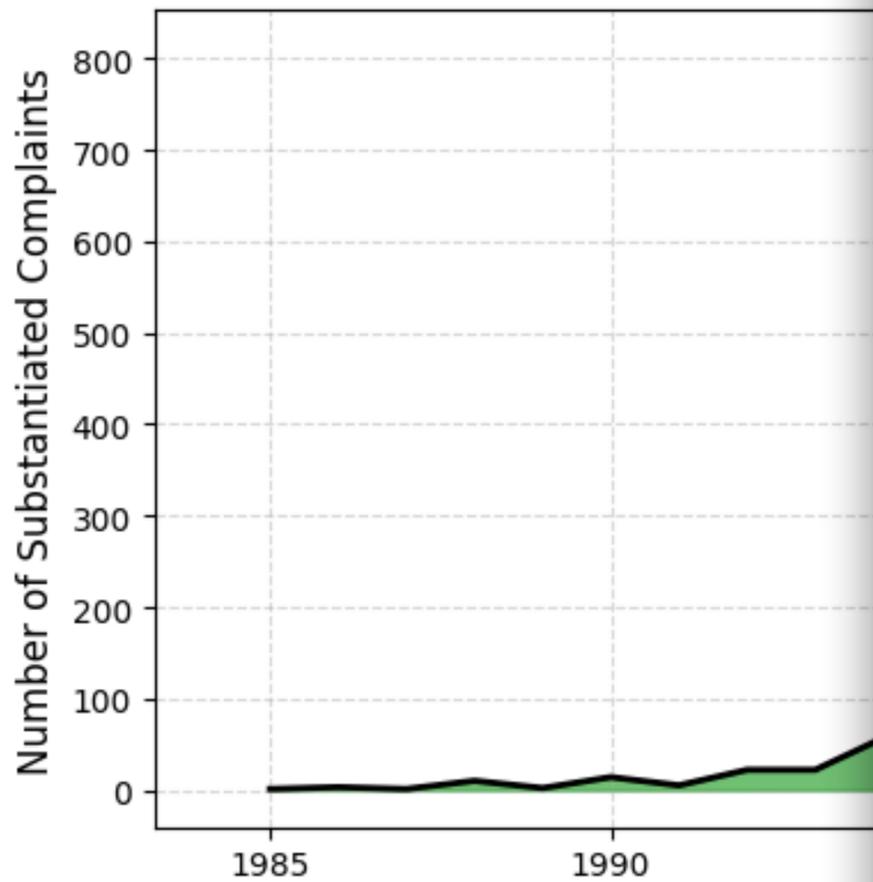
Source: World Bank

China



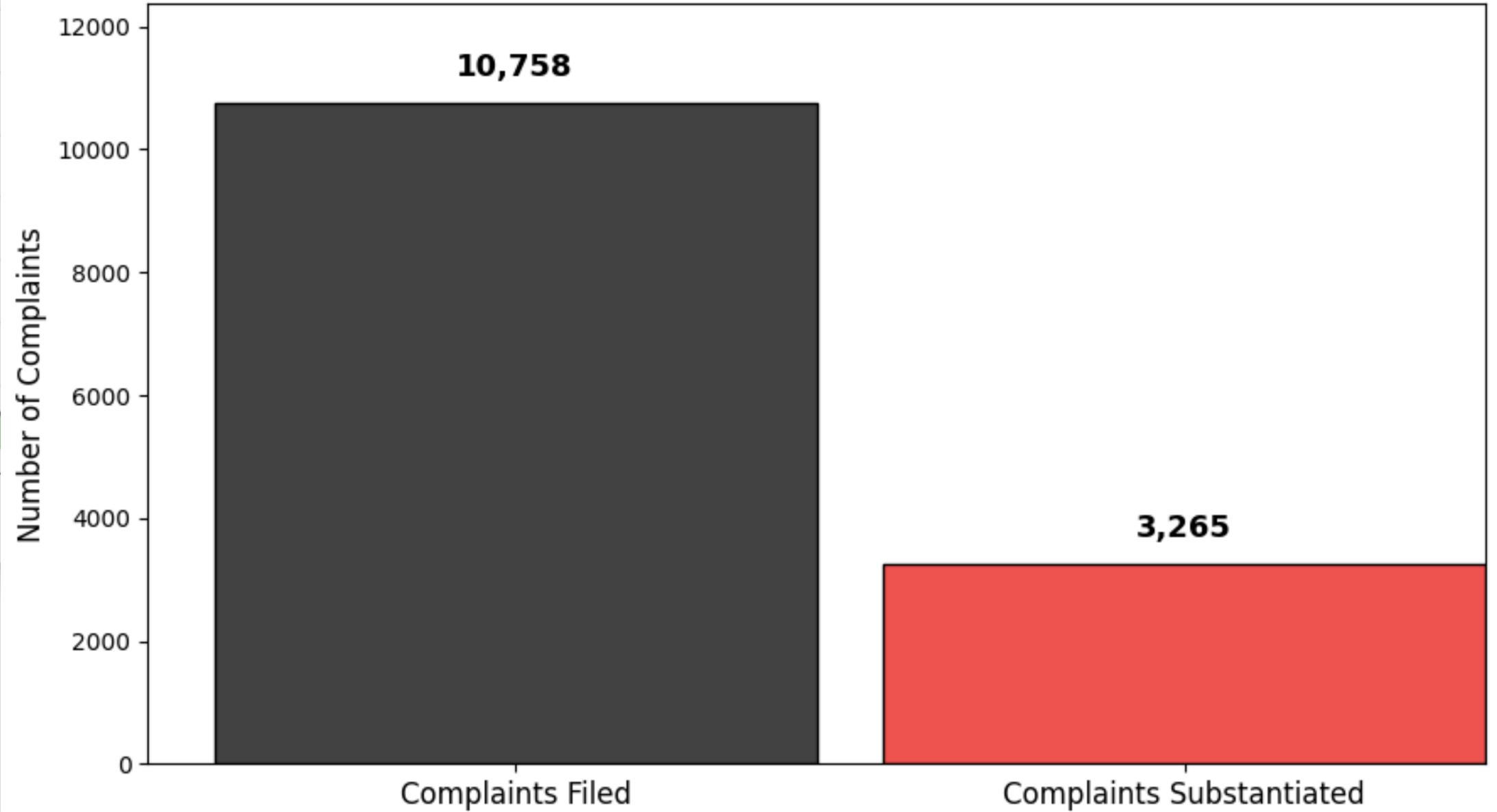
Every Year, More NYPD Officers Are Held Accountable

Annual substantiated complaints
reflect



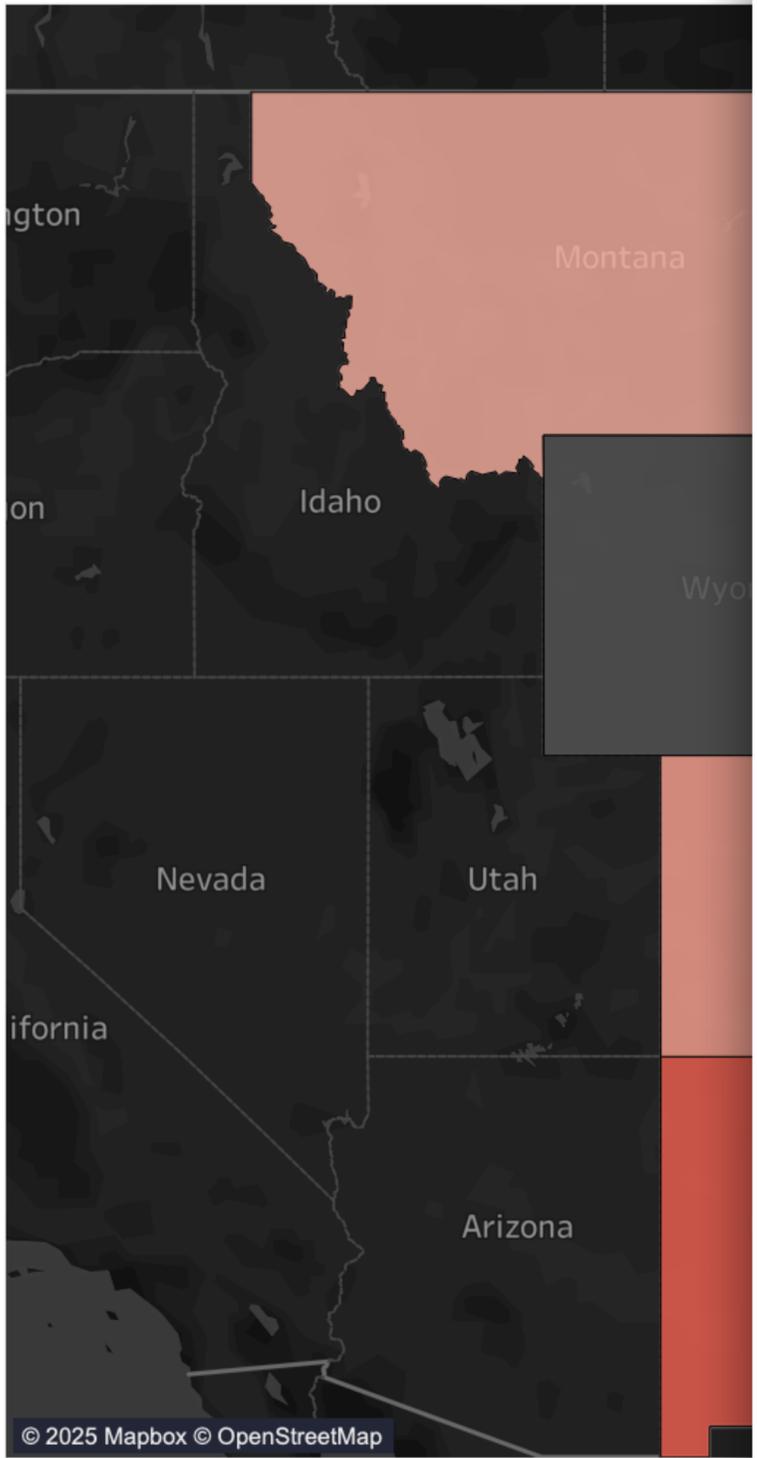
A Sea of Complaints. A Trickle of Accountability.

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.



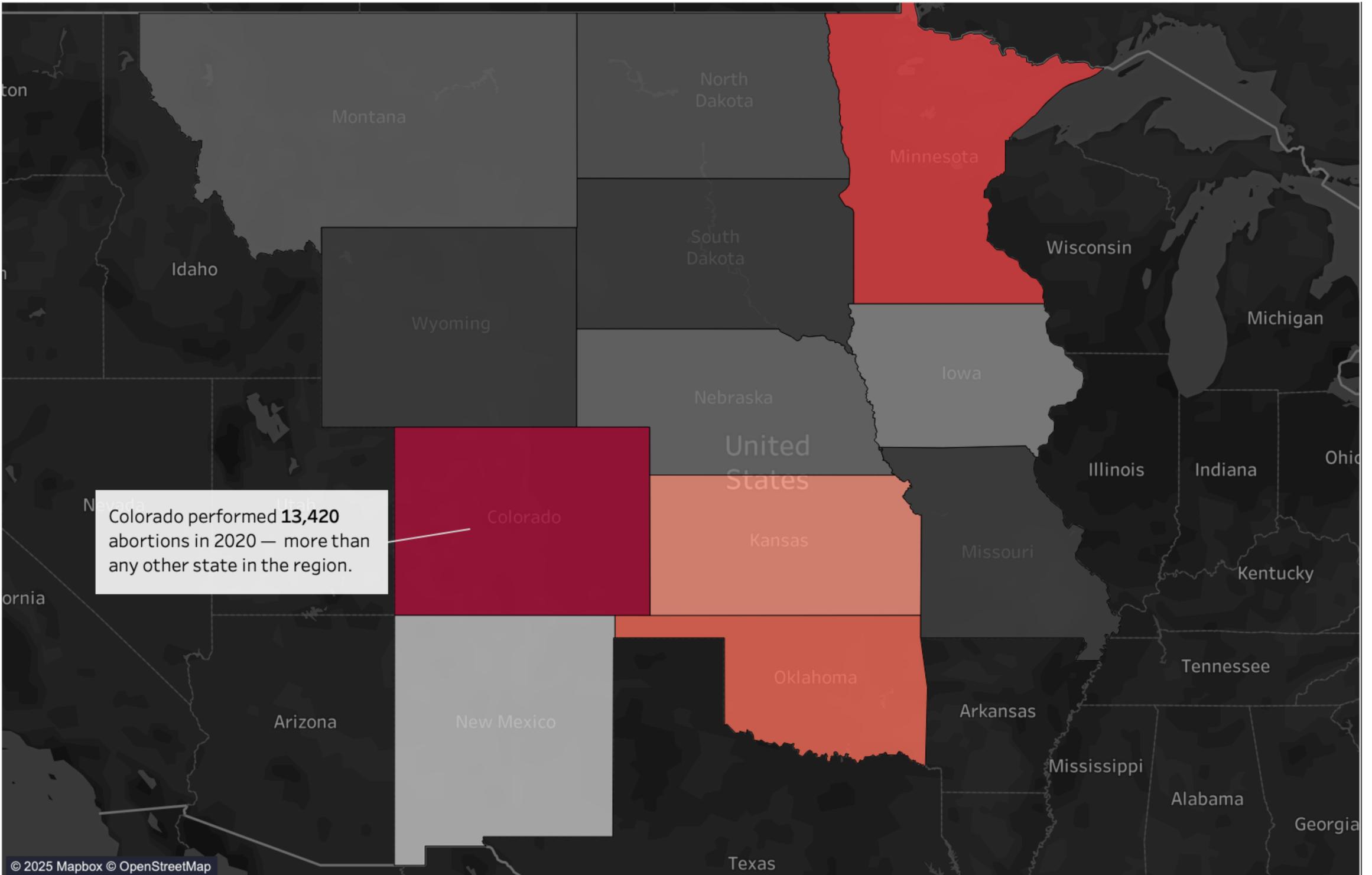
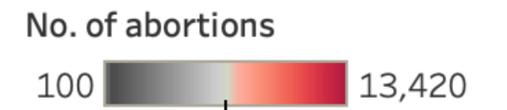
Kansas: Where the Region Turns

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



Colorado: Quietly Carrying the Region's Workload

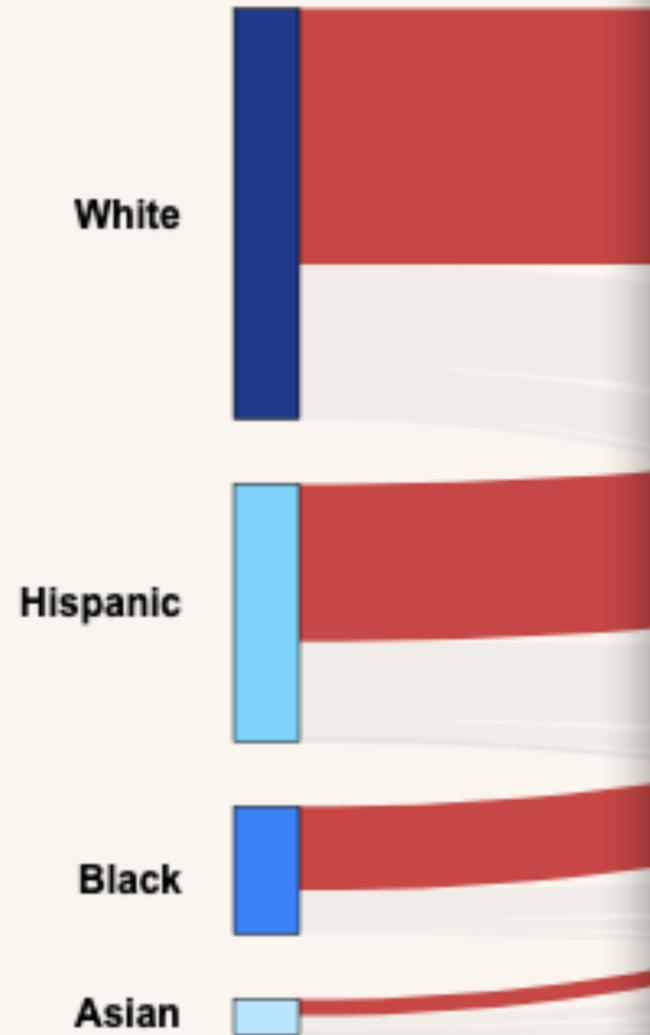
This map shows the number of abortions performed in each state in 2020, highlighting which states provide care for the broader region — not just their own residents.



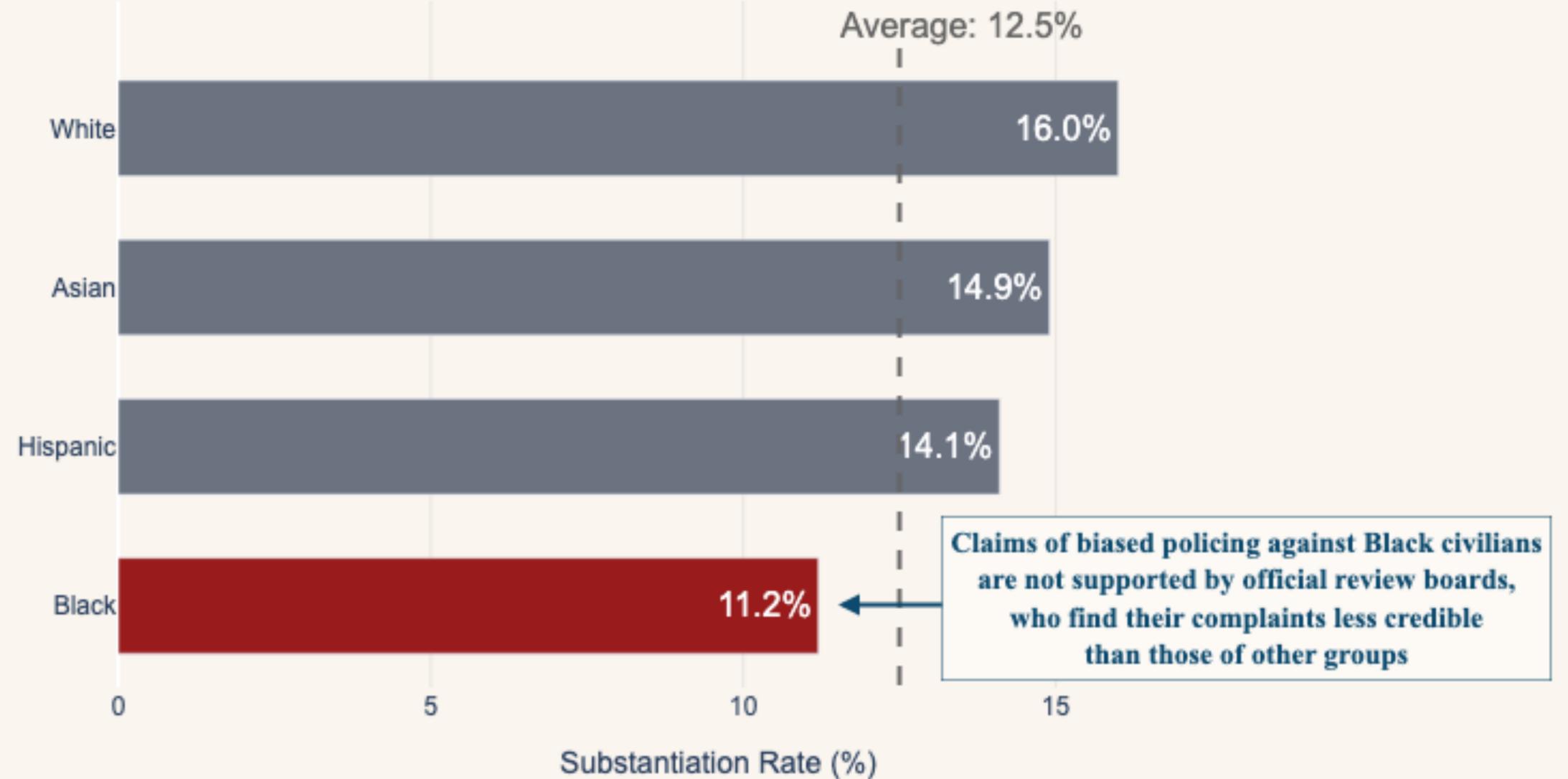
A value above 1 means more people are traveling out-of-state for care. Lower totals may reflect fewer procedures, more residents traveling out-of-state, or limited clinic availability.

Black New Yorkers: Pri

NYPD Officer Ethnicity

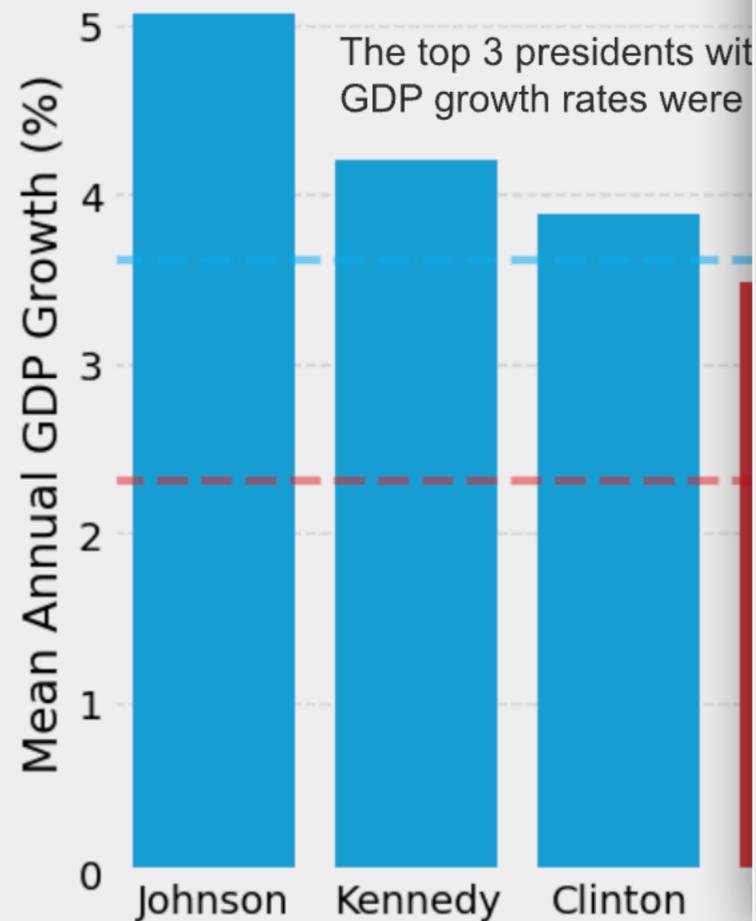


Black Civilians' Force Complaints Are Less Likely To Be Substantiated



Who's the Fiscal Leader? Democrats Lead

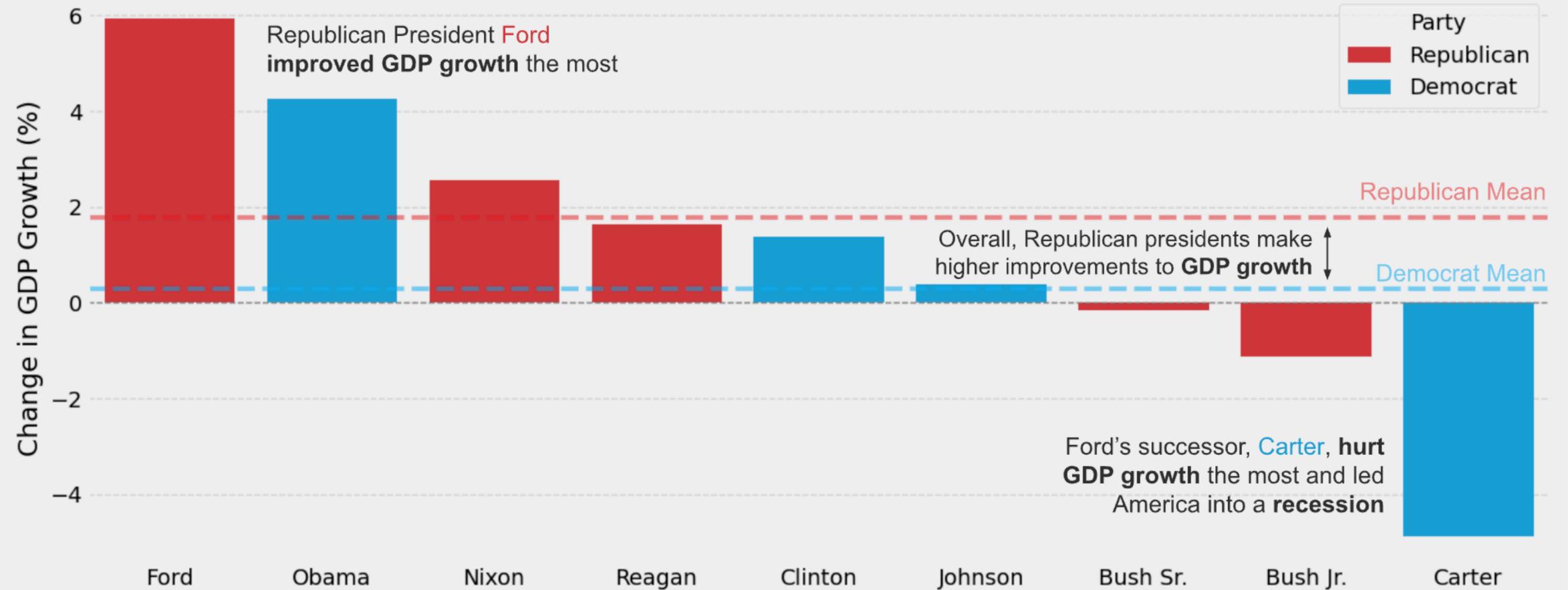
Mean G



Source: The World Bank

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

Change in GDP Growth (%) between Start and End of Terms of each President (1963-2016)



Source: The World Bank

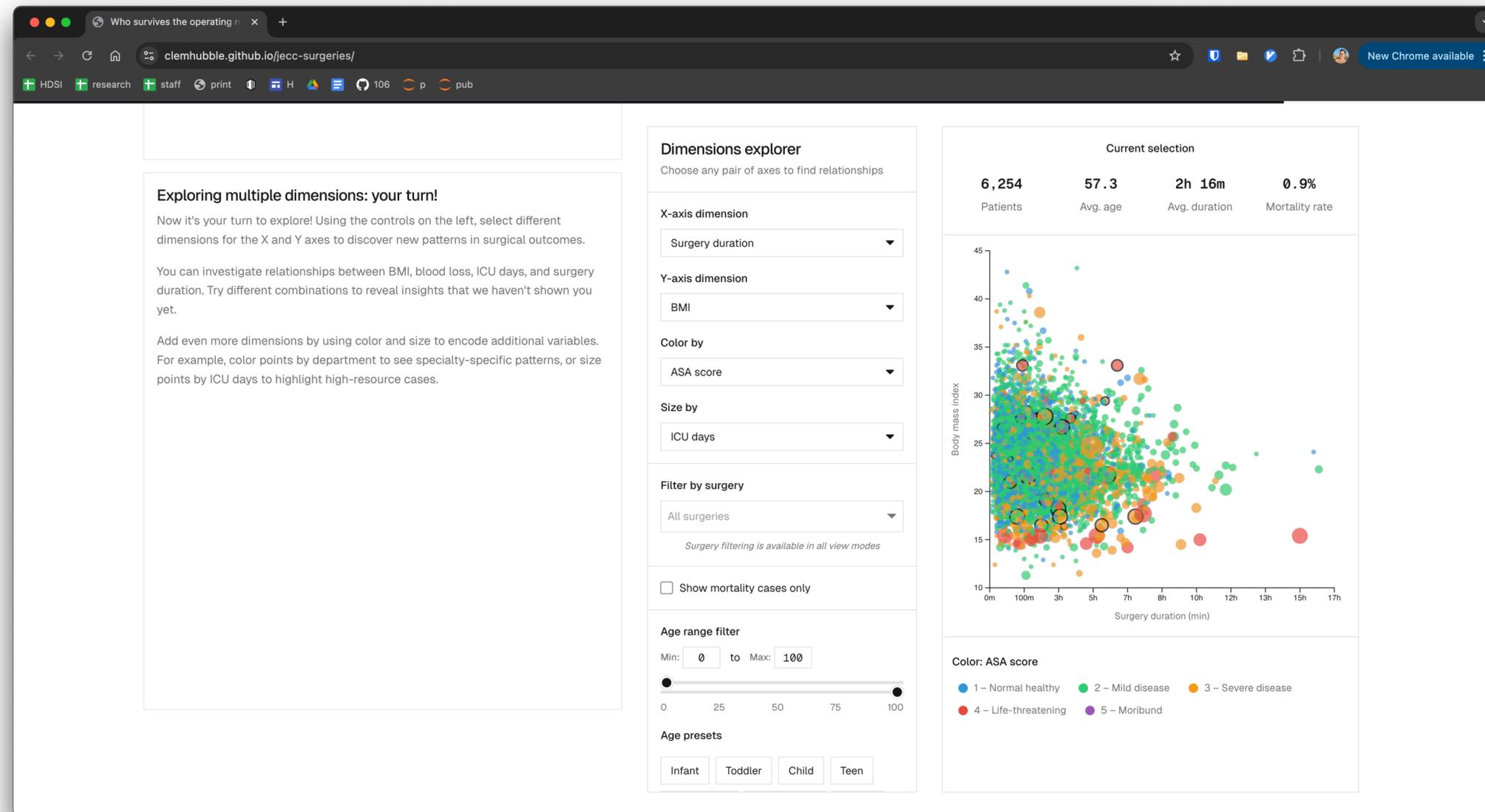
How today will work

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/>

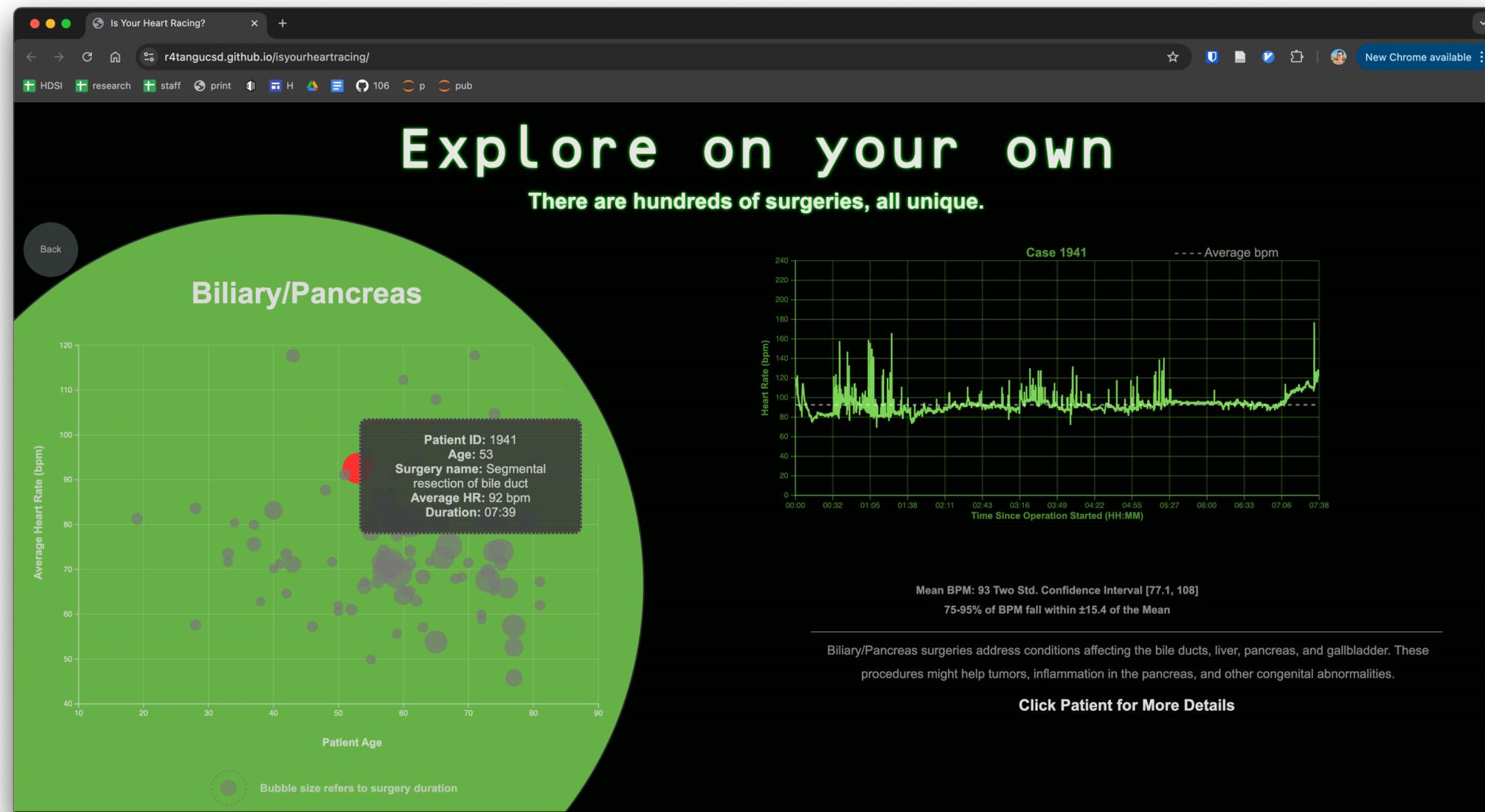
tryclassbuzz.com
Code: **oper**



Is Your Heart Racing?

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

tryclassbuzz.com
Code: racing



The Effect of Parkinsons on Typing Ability

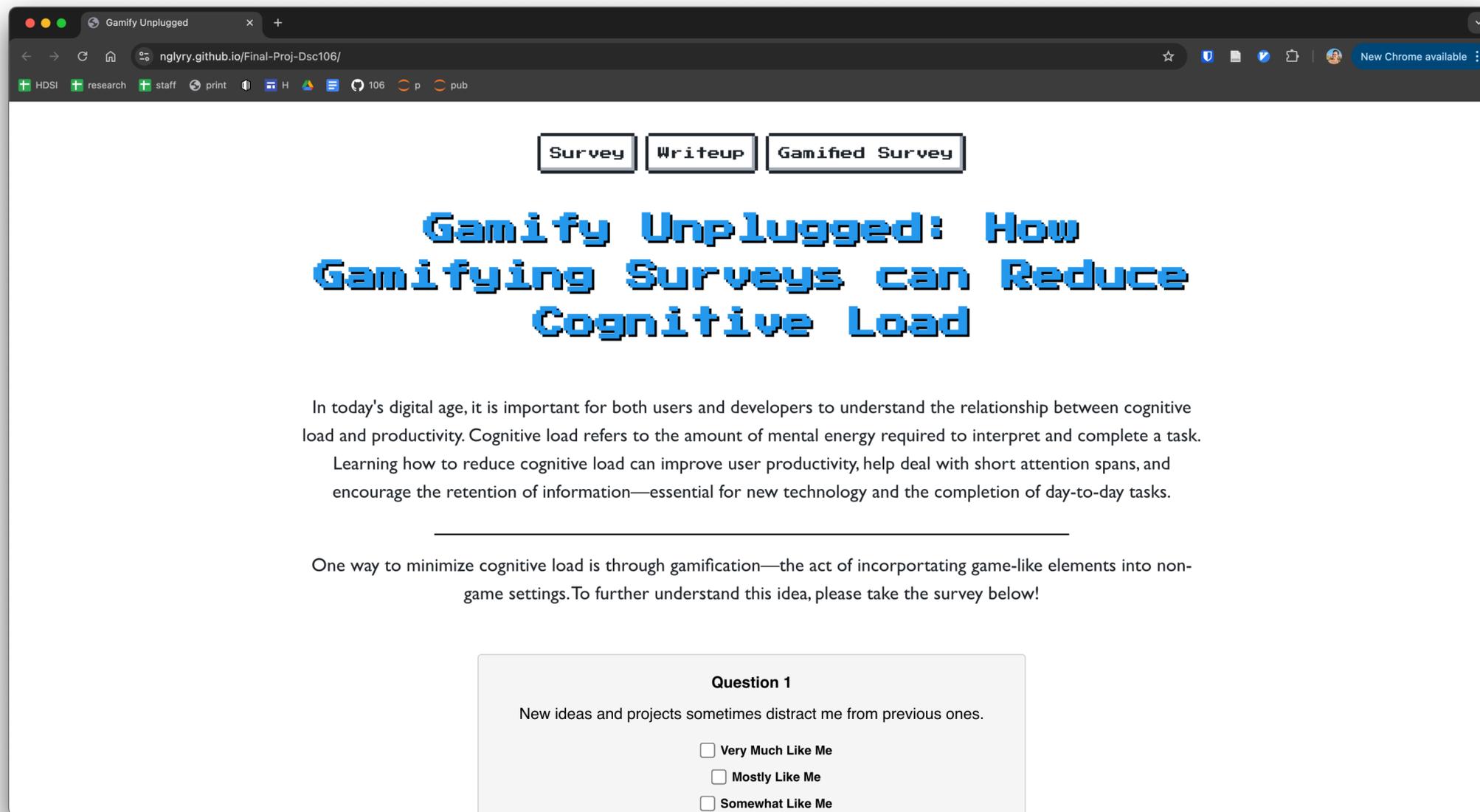
<https://matthewbudding.github.io/FinalProject-DSC106/>

tryclassbuzz.com
Code: **park**

The screenshot shows a web browser window with the URL matthewbudding.github.io/FinalProject-DSC106/. The page features a main heading "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 the heading are two buttons: "Data" and "Explore more". To the right is a large graphic of a hand with a keyboard overlay. At the bottom, there are four team member profiles: Eric Cheng (Designer), Jerric Jiang (Scatter Plot/Script), Omid Alamdar (Typing Speed/Video), and Matthew Budding (Statistics/Aggregate Keystroke). The page also includes a section for "Key Statistics" and "Typing Speed Comparison".

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 URL nglyry.github.io/Final-Proj-Dsc106/. At the top, there are 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 of text 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 invites the user to take a survey. Below this, a survey question is displayed in a light gray box:

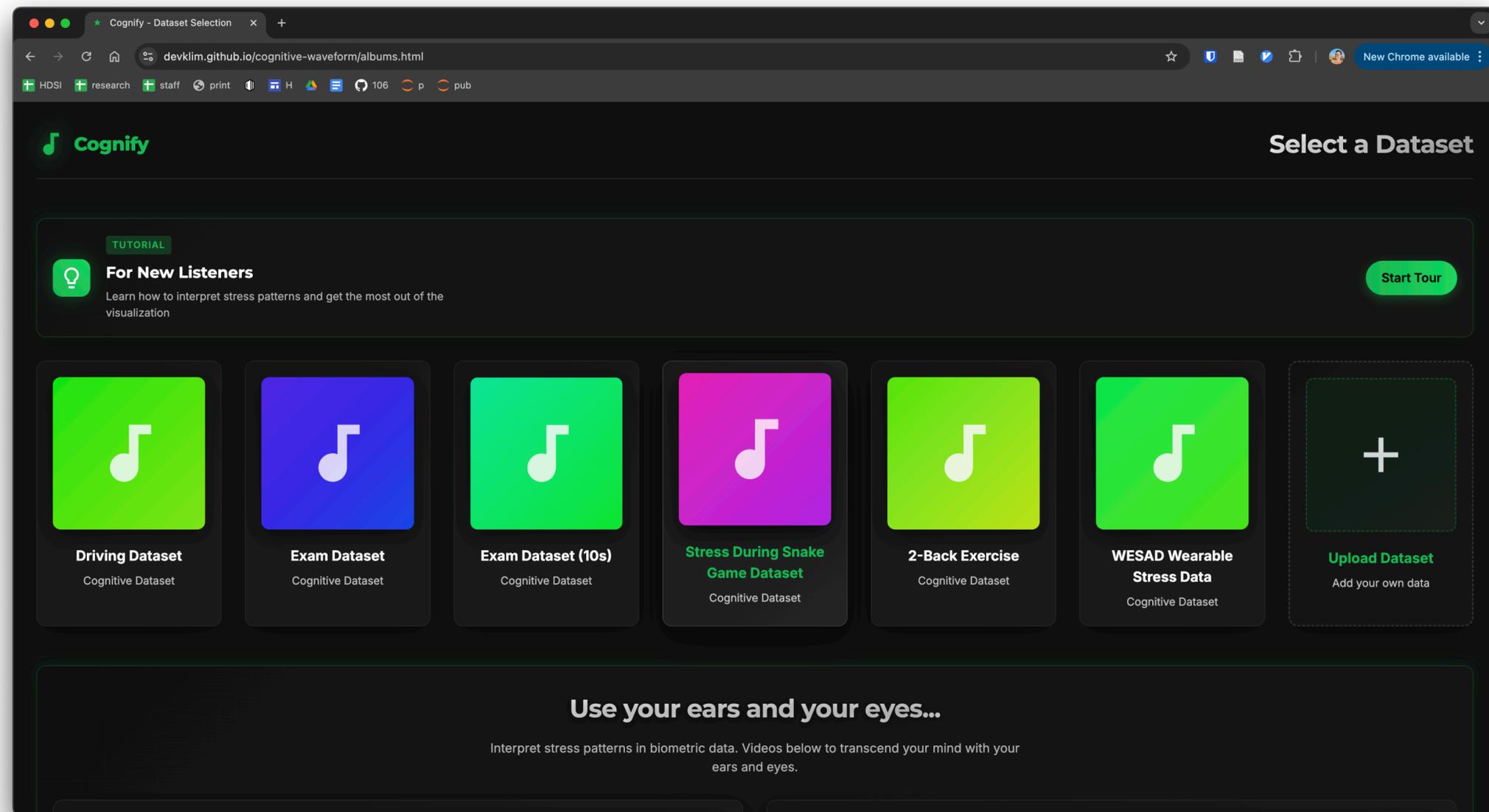
Question 1
New ideas and projects sometimes distract me from previous ones.

Very Much Like Me
 Mostly Like Me
 Somewhat Like Me

tryclassbuzz.com
Code: **game**

Cognify

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

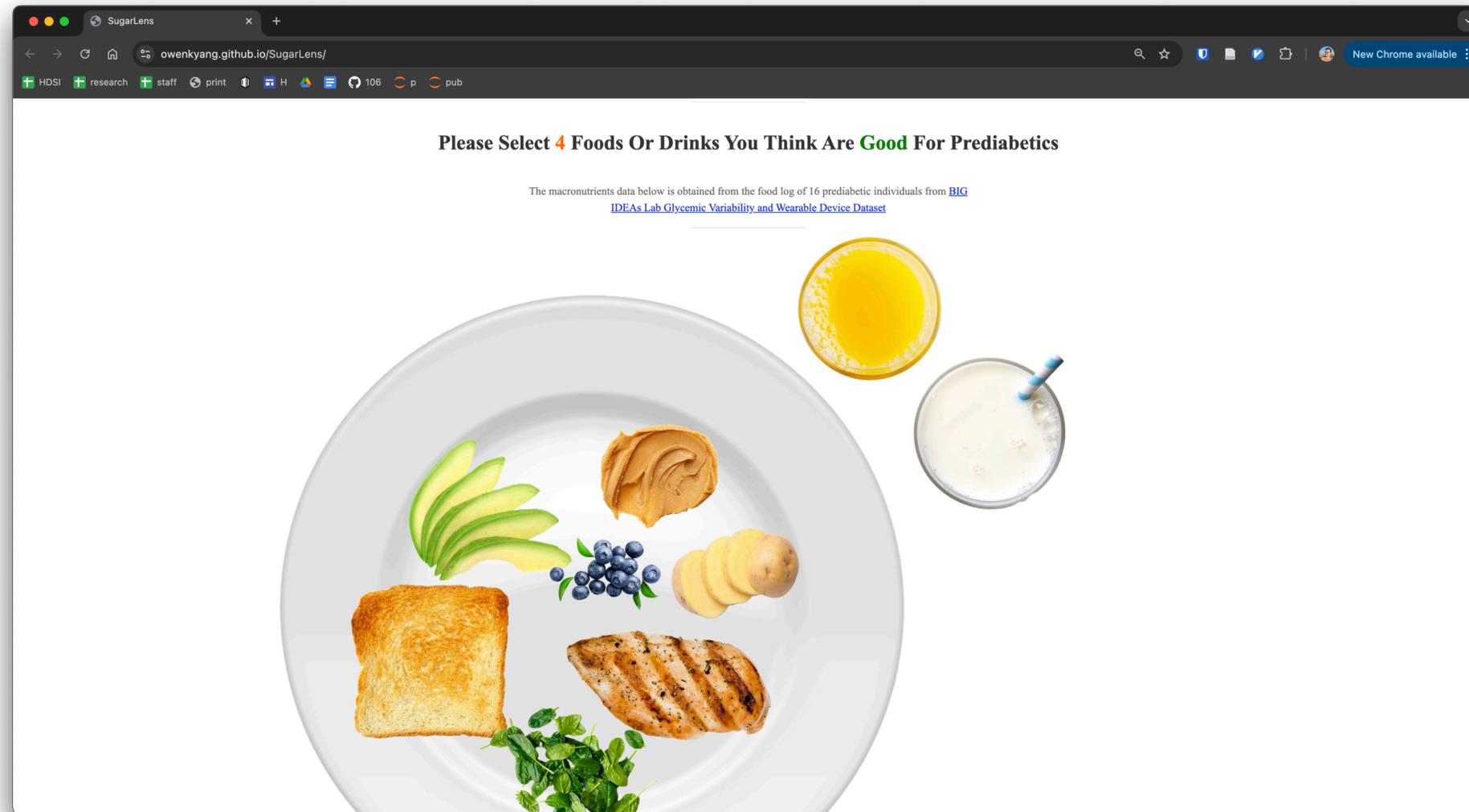


tryclassbuzz.com
Code: **cognify**

SugarLens

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

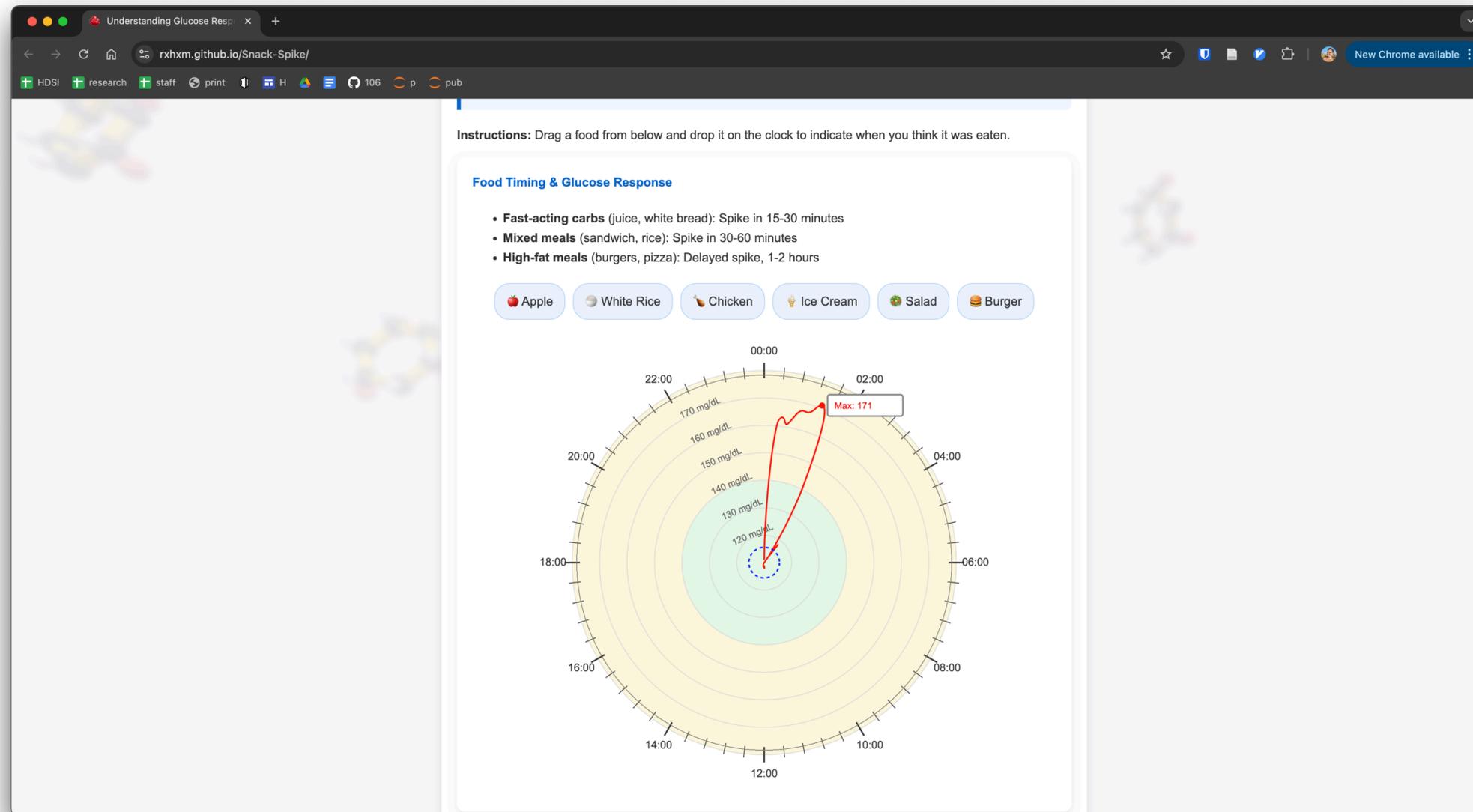
<https://owenkyang.github.io/SugarLens/>



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**

The screenshot shows a web browser window with the URL `seashello.github.io/dsc106-final-project/`. The page has a navigation bar with links for Home, Data, Video, and Simulation. Below the navigation bar, there is a heading: "Run simulation below to see running duration and oxygen consumption of each age group." A toggle switch labeled "Toggle Gender for ALL Contestants" is set to "M". The main content area features six age group representative cards arranged in a 2x3 grid. Each card includes a checkbox for "Enter Contestant Name", a "Customize Appearance" button, a pixelated character icon, and a vertical green progress bar. The cards are labeled as follows: (10-20] Representative (Contestant #1), (20-30] Representative (Contestant #2), (30-40] Representative (Contestant #3), (40-50] Representative, (50-60] Representative, and (60-70] Representative. To the right of these cards is a large empty box titled "Active Contestants".

**See all projects from last
quarter:**

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