

Teaching Data That Matters



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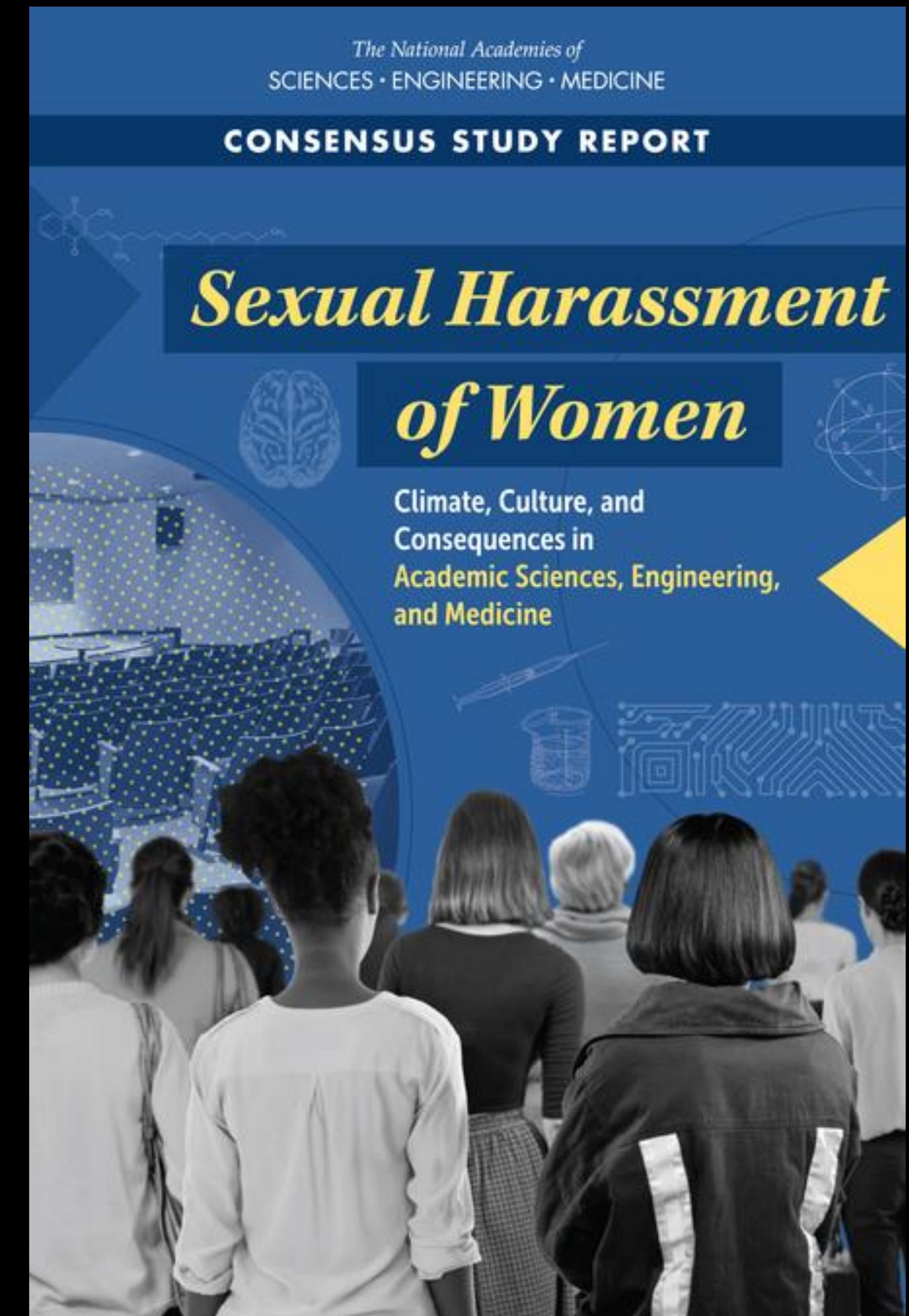
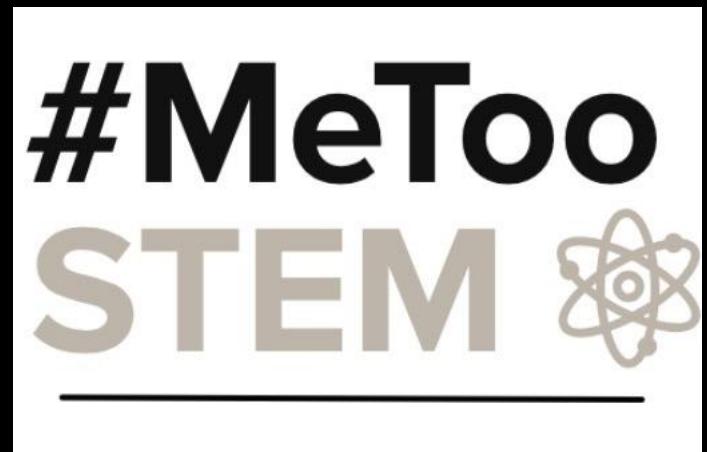
Civic Media Group, MIT Media Lab

@rahulbot

A Moment of Acknowledgement

I feel safe in this space, but not everyone does.

Join me in 46 seconds of silence - one for each of the years since the passage of Title IX.



<https://www.nap.edu/catalog/24994>

Ethics

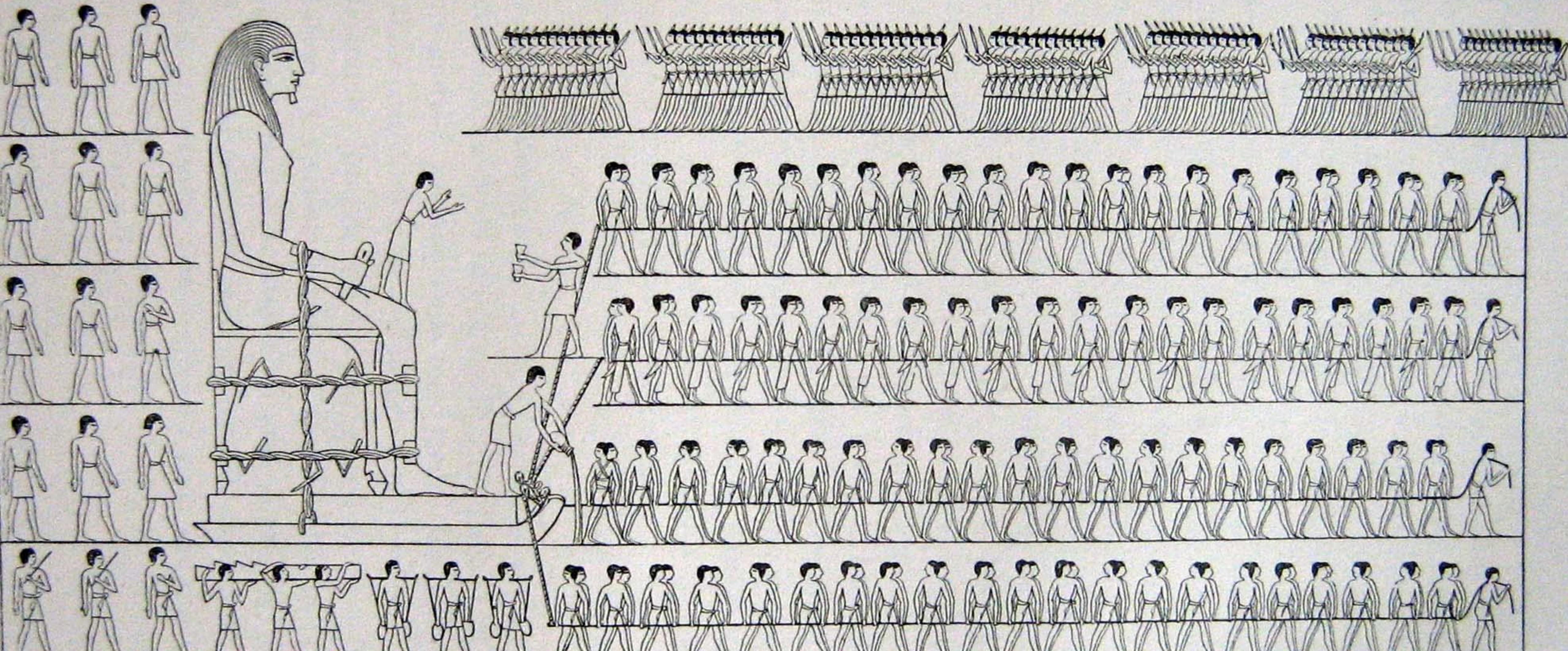
Excuses for being late to class





Eymund Diegal, Public Laboratory
or Open Technology and Sceince

History



A Popular Account of the Ancient Egyptians - Sir John Gardner Wilkinson

many people prosper in times of prosperity? How many people find their lives developed by development?

The Cuban Revolution triumphed during the year of greatest affluence in the history of that island.

In Central America, the more wretched and desperate the people, the more the statistics smiled and laughed. During the fifties, sixties and seventies, stormy decades, turbulent times, Central America boasted the highest economic growth rates in the world and the most extensive regional development in

Book of Embraces, Eduardo Galeano

Technology

Beijing to Judge Every Resident Based on Behavior by End of 2020

Bloomberg News
November 21, 2018, 3:48 AM EST

- China capital plans 'social credit' system by end of 2020
- Citizens with poor scores will be 'unable to move' a step

Beijing to Judge Residents on Behavior

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► 2:34

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700
TENCENT
310.60 HKD
▲ +6.40 +2.10%

China's plan to judge each of its 1.3 billion people based on their social behavior is moving a step closer to reality, with Beijing set to adopt a lifelong points program by 2021 that assigns personalized ratings for each resident.

The capital city will pool data from several departments to reward and punish some 22 million citizens based on their actions and reputations by the end of 2020, according to a plan posted on the Beijing municipal government's website on Monday. Those with better so-called social credit will get "green channel" benefits while those who violate laws will find life more difficult.

The Beijing project will improve blacklist systems so that those deemed untrustworthy will be "unable to move even a single step," according to the government's plan. Xinhua reported on the proposal Tuesday, while the report posted on the municipal government's website is dated July 18.

China has long experimented with systems that grade its citizens, rewarding good behavior with streamlined services while punishing bad actions with restrictions and penalties. Critics say such moves are fraught with risks and could lead to systems that reduce humans to little more than a report card.

Ambitious Plan

Beijing's efforts represent the most ambitious yet among more than a dozen cities that are moving ahead with similar programs.

Hangzhou rolled out its personal credit system earlier this year, rewarding "pro-social behaviors" such as volunteer work and blood donations while punishing those who violate traffic laws and charge under-the-table fees. By the end of May, people with bad credit in China have been blocked from

Bloomberg

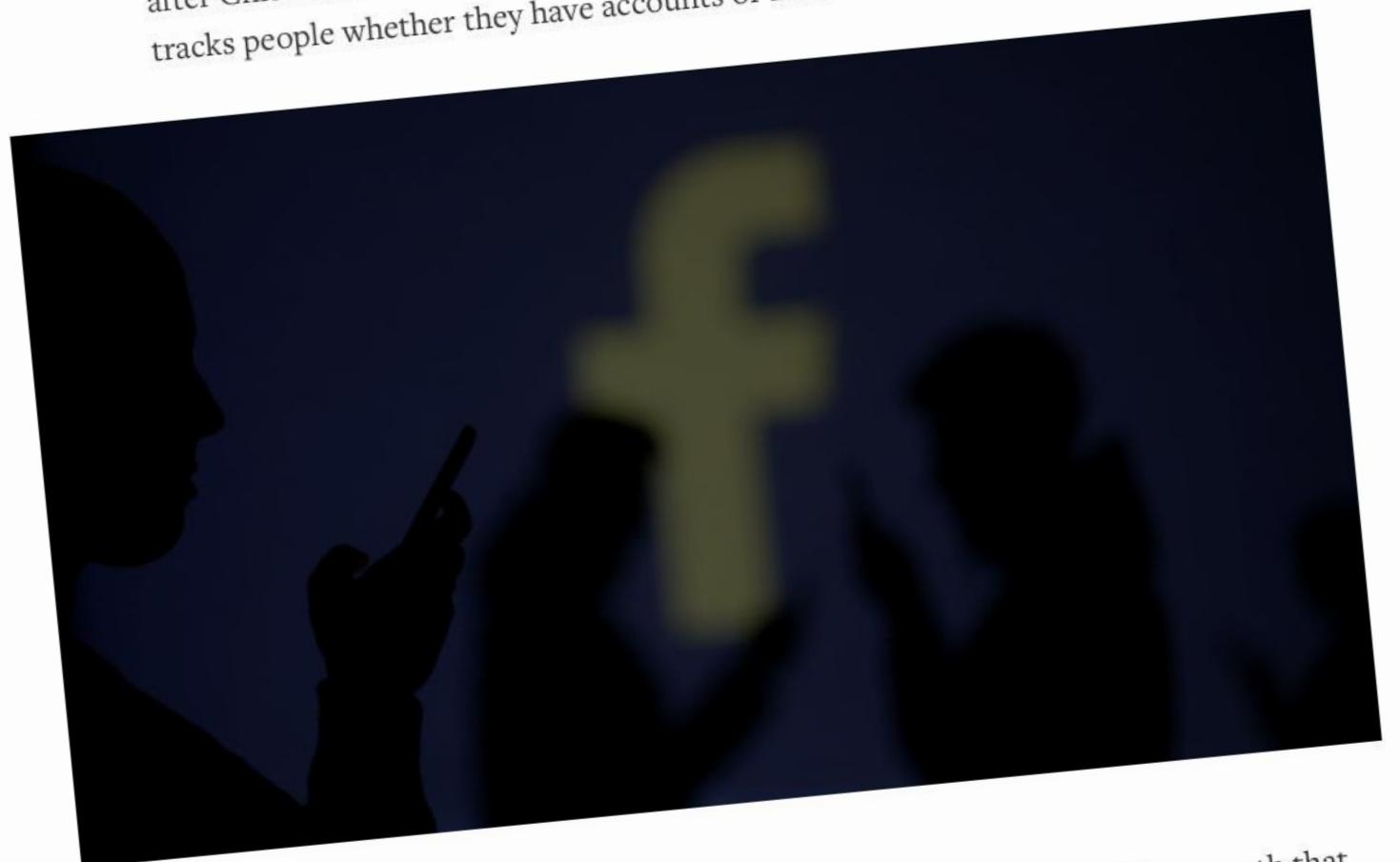
BUSINESS NEWS APRIL 15, 2018 / 7:04 AM / 8 MONTHS AGO

Facebook fuels broad privacy debate by tracking non-users

5 MIN READ

David Ingram

SAN FRANCISCO (Reuters) - Concern about Facebook Inc's (FB.O) respect for data privacy is widening to include the information it collects about non-users, after Chief Executive Mark Zuckerberg said the world's largest social network tracks people whether they have accounts or not.



Privacy concerns have swamped Facebook since it acknowledged last month that information about millions of users wrongly ended up in the hands of political consultancy Cambridge Analytica, a firm that has counted U.S. President Donald Trump's 2016 electoral campaign among its clients.

Zuckerberg said on Wednesday under questioning by U.S. Representative Ben Luján that, for security reasons, Facebook also collects "data of people who have not signed up for Facebook."

Reuters

Inspirations

Natural and Political
OBSERVATIONS
Mentioned in a following INDEX,
and made upon the
Bills of Mortality.

BY
Capt. JOHN GRAUNT,
Fellow of the Royal Society.

With reference to the Government, Religion, Trade, Growth, Air, Diseases, and the several Changes of the said CITY.

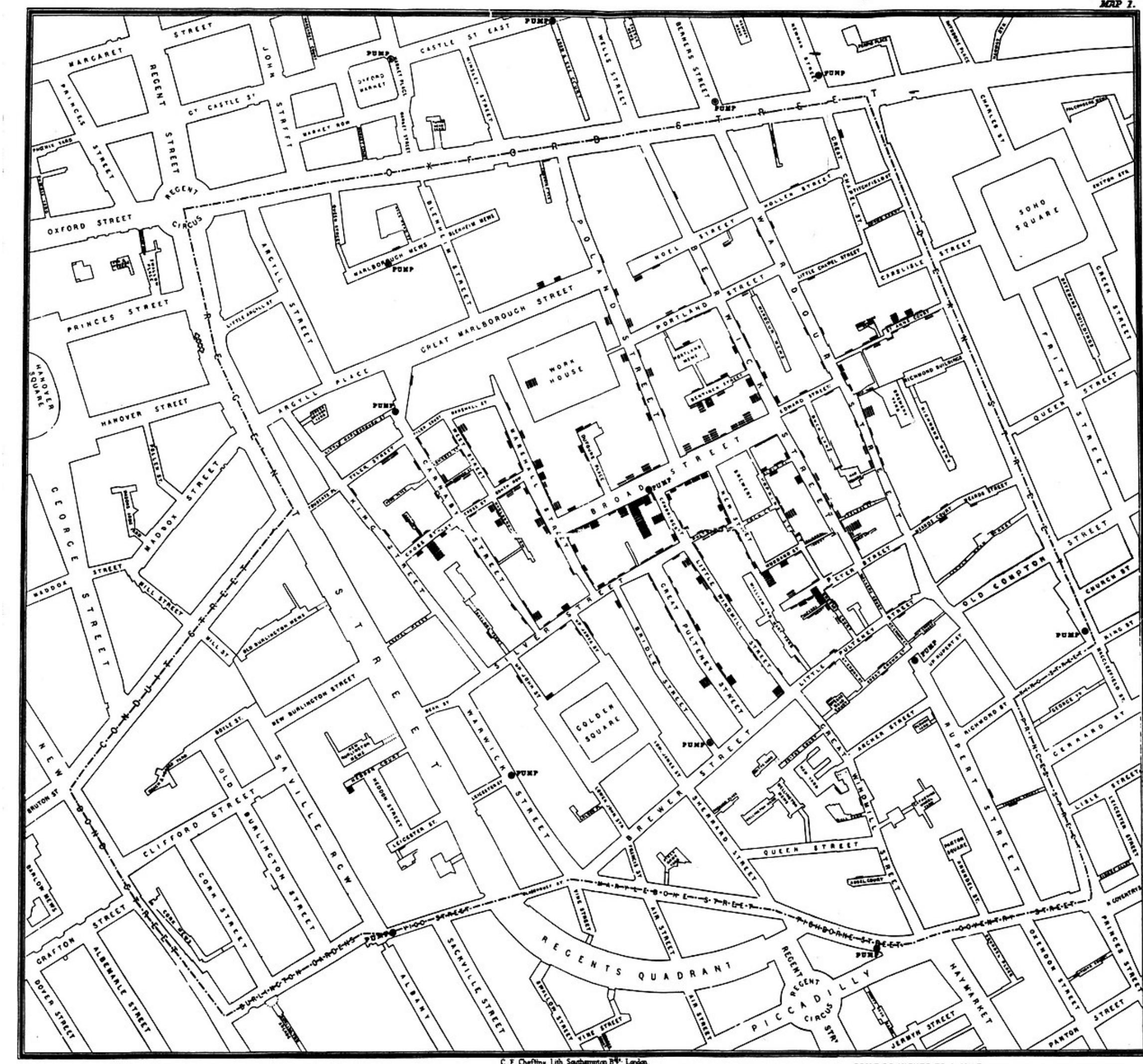
— Non, me ut miretur Turba, labore,
Contentus paucis Leboribus. —

The Fifth Edition, much Enlarged.

LONDON,

Printed by John Martyn, Printer to the
Royal Society, at the Sign of the Bell in St. Paul's
Church-yard. MDCLXXVI.

BM



INCOME AND EXPENDITURE OF 150 NEGRO FAMILIES IN ATLANTA, GA., U.S.A.



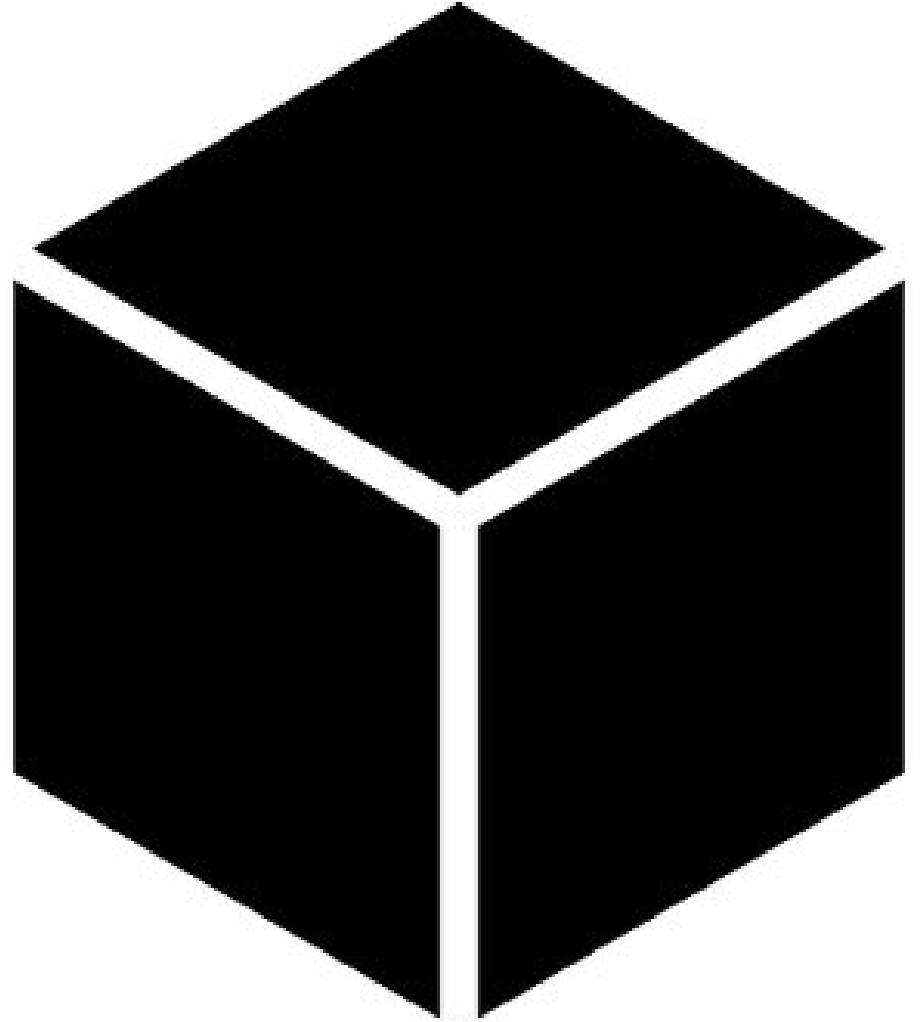
CLASS.	ACTUAL AVERAGE	19%	43%	28%	9.9%
\$ 100-200	\$ 139.10	19%	43%	28%	9.9%
\$ 200-300	\$ 249.45	22%	47%	23%	4% 4%
\$ 300-400	\$ 335.66	23%	43%	18%	4.5% 11.5%
\$ 400-500	\$ 433.82	18%	37%	15%	5.5% 24.5%
\$ 500-750	\$ 547	13%	31%	17%	5% 34%
\$ 750-1000	\$ 880	37%	19%	8%	36%
1,000 AND OVER	\$ 1,025	29%	16%	4.5%	50.5%

CITY AND RURAL POPULATION.
1890.



Data for Black Lives

Data as protest. Data as accountability. Data as collective action.



d4bl.org

ajlunited.org

Teaching



wiki.communitydata.cc

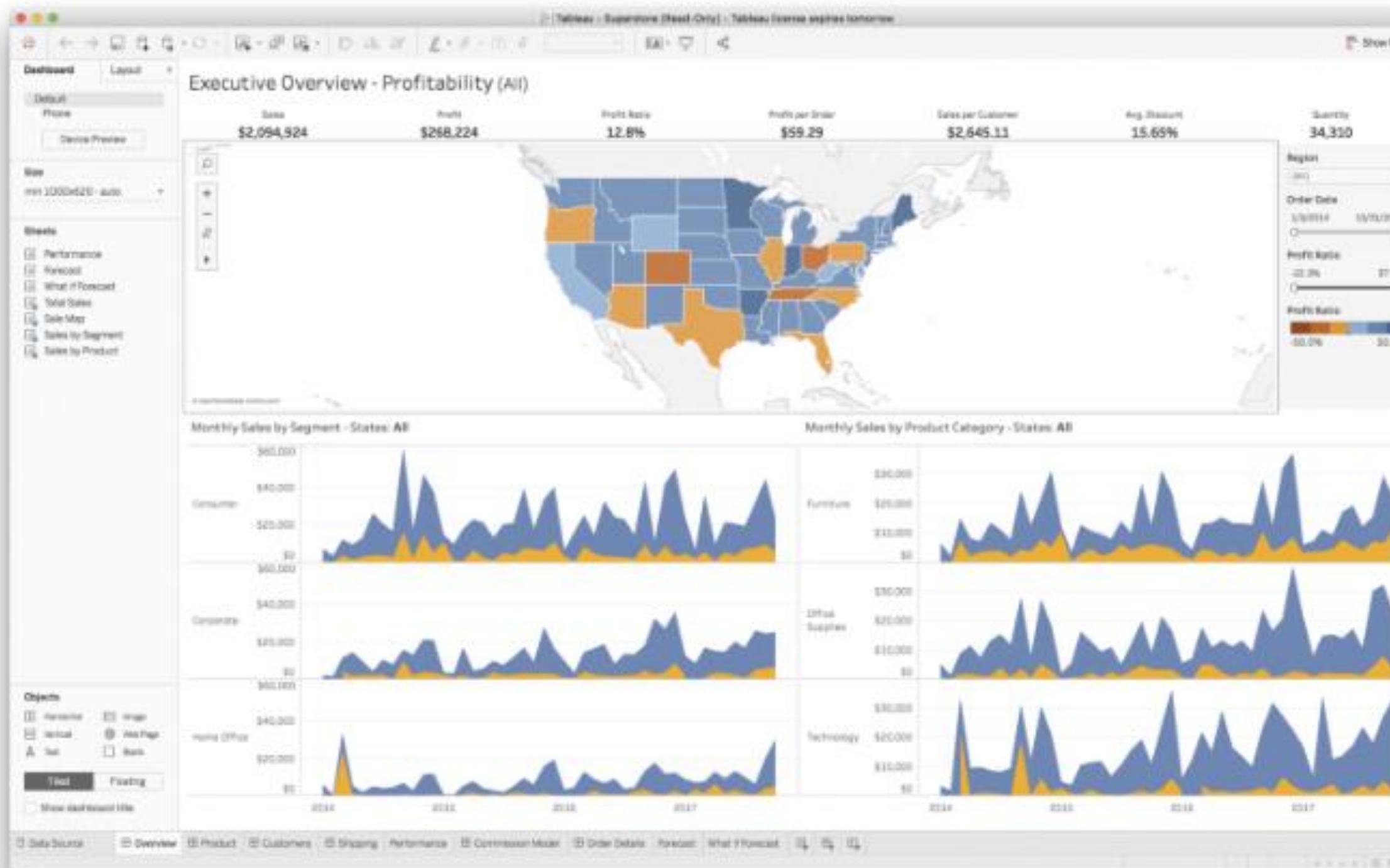
Doing More With Sample Datasets



Michael Correll

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Nov 2 • 8 min read



(Source: [Tableau](#)) Tableau's "Superstore" sample dataset showing the fictional sales performance of a fictional company. I don't care about this.



(Source: [Tableau](#)) Tableau's "World Indicators" sample dataset showing economic and health care data of all the countries of the world until 2012. I care more about this.

Data Storytelling Studio: Climate Change

[COURSE HOME](#)



[SYLLABUS](#)

[CALENDAR](#)

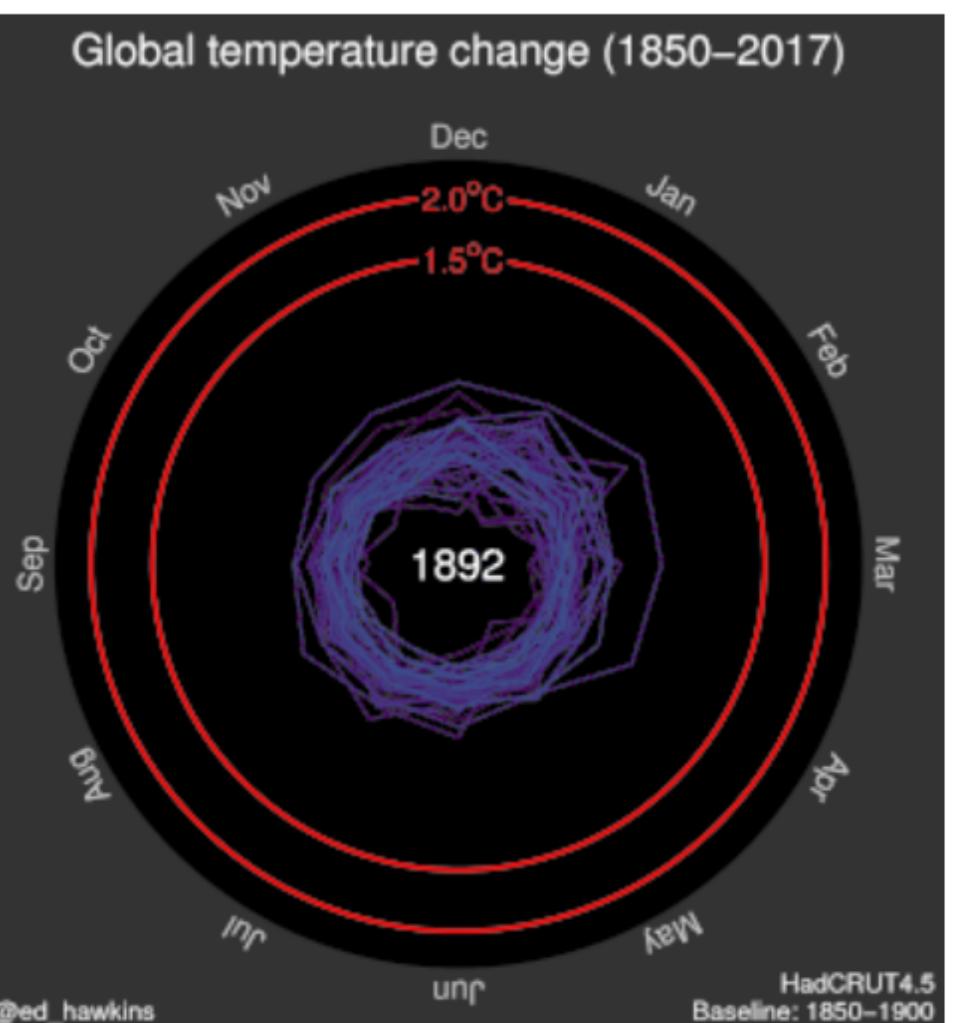
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Instructor(s)
Rahul Bhargava

MIT Course Number
CMS.631 / CMS.831 / MAS.784

As Taught In
Spring 2017

Level
Undergraduate / Graduate

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MIT OPEN COURSEWARE

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

What story does this animated graphic tell about climate change? ([Climate Spirals](#) image © Ed Hawkins, License CC BY-SA International 4.0. This content is [excluded from our Creative Commons license](#).)

Course Features

- [Lecture notes](#)
- [Instructor insights](#)

- [Assignments with examples](#)

Course Description

This course explores visualization methodologies to conceive and represent systems and data, e.g., financial, media, economic, political, etc., with a particular focus on climate change data in this version of the course. Topics include basic methods for research, cleaning, and analysis of datasets, and creative methods of data presentation and storytelling. The course considers the emotional, aesthetic, ethical, and practical effects of different presentation methods as well as how to develop metrics for assessing impact. Coursework includes readings, visualization exercises, and a final project.



Argyro Nicolaou, Reem Alfaiz, Phillip Graham, Gray Burnett

Affluent White Bostonians Unfairly Targeted by Stop and Frisk Practices...Mostly While Leaving SoulCycle

by Catherine "Blenda" Caruso and Kendra "Butter Hating" Pierre-Louis

BOSTON, MA - Recently, an alarming report from the Heritage Foundation revealed that the number of stop and frisk incidents has dramatically increased in several prominent Boston neighborhoods. In fact, these stop and frisk incidents are now so numerous that they have become detrimental to the daily lives of local citizens.



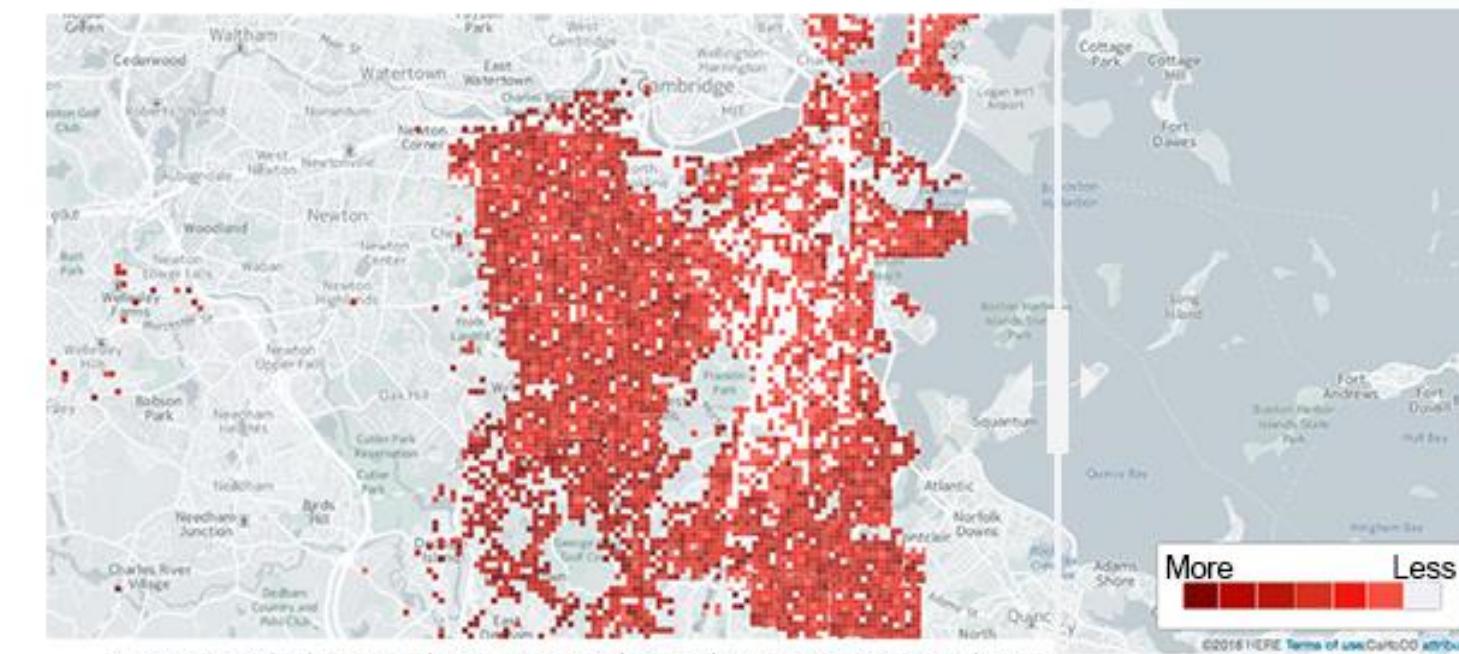
Just trying to live her life: Bitsy Von Underwood of Brookline, MA, nearly missed a crucial spa appointment after a stop and frisk incident delayed her.

"I was stopped three different days this week leaving SoulCycle," said Bitsy Von Underwood, a resident of Brookline, MA. "On Thursday I was late to my spa appointment. It was distressing."

When asked if her Lululemon athleisure played a role in her stop, Ms. Underwood said, "It was clear the police officer was targeting me because of my wealth." Her husband is currently serving two years for embezzlement of government funds.

To gain access to the records of 150,000 stop and frisk incidents that occurred from 2007-2010, the Heritage Foundation sued the Boston Police

Department (BPD) The data clearly show that when it comes to stop and frisk incidents, the BPD disproportionately targets individuals based on racial profile and neighborhood.



According to the Heritage Foundation, stop and frisk practices target residents of Brookline and Milton

◆ JuxtaposeJS

"The BPD is going after rich, white people," said supermodel and Brookline resident Gisele Bundchen, who was also stopped on her way out of SoulCycle. "Last week when my husband was frisked, they even searched inside his UGGS. I have no doubt it's because of Deflategate."

However, Boston Police Commissioner William T. Evans countered that their approach is working. "Just last week in a stop and frisk incident I found the numbers for 17 offshore accounts sewed into the lining of the perpetrator's Armani suit."

As the map shows, the majority of stop and frisk incidents occur in affluent, primarily white neighborhoods such as the Boston neighborhoods of Brookline and Milton. Brookline is 81% white and has an annual median family income over \$95,000, while Milton, ranked 2nd on Money Magazine's list of best places to live in 2011, is 77% white and has an annual median family income over \$110,000. In fact, 63% of people that are stopped and frisked in these neighborhoods are white.



Rich, famous and targeted: Supermodel Gisele Bundchen and husband, Patriots quarterback Tom Brady, residents of Brookline, MA, have been the subjects of repeated stop and frisk practices

Catherine Caruso & Kendra Pierre-Louis



Helen Bailey, Sophia Reinach, Rikhav Shah, and Maddie Pelz

Learning

“The importance of the story design really hit home though, and made for some interesting conversations with data scientists/engineers that I encountered.”

“My biggest takeaway from the class was the importance of having a “call of action” in each of my projects. I learned that while it was important for viewers to engage with the project or campaign, **their post-engagement could be even more important.**

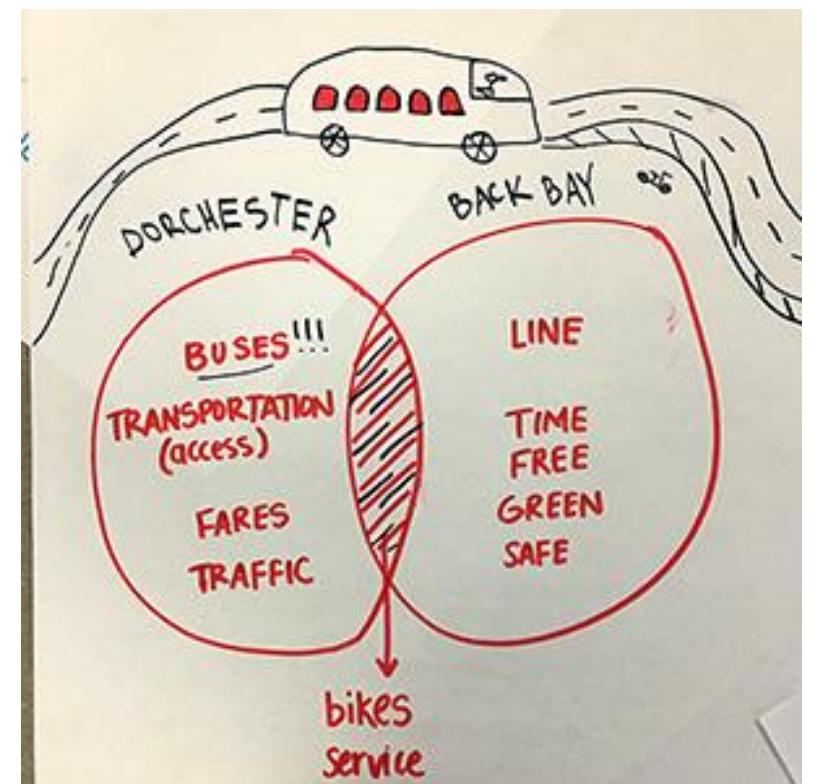
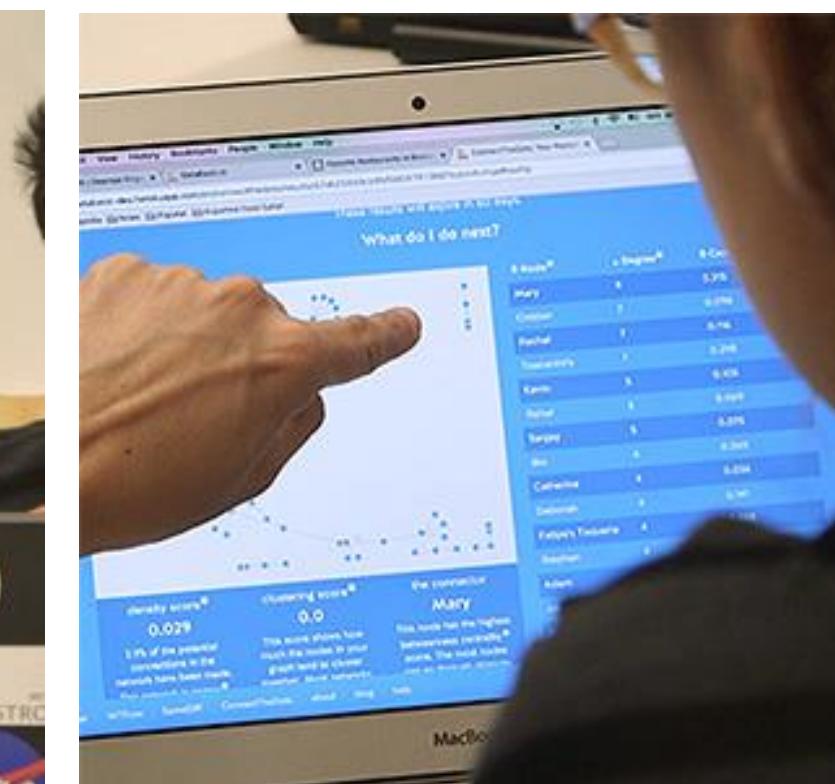
“Awful class taught by an arrogant instructor interested only in **pushing his political agenda upon students**”

Take-Aways

*The Library of
Missing Datasets*
Mimi Ohnuoha
2016



data **CULTURE** project



My Tips

- Create playgrounds to learn in
- Use real data
- Balance learning objectives with students interests
- Take some risks, and let the students too

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