Lecture 12

Advanced Visual DataStories

- – Technology

- – Covid

- – Politics

- – Race

- – Inequality

- – Climate Change

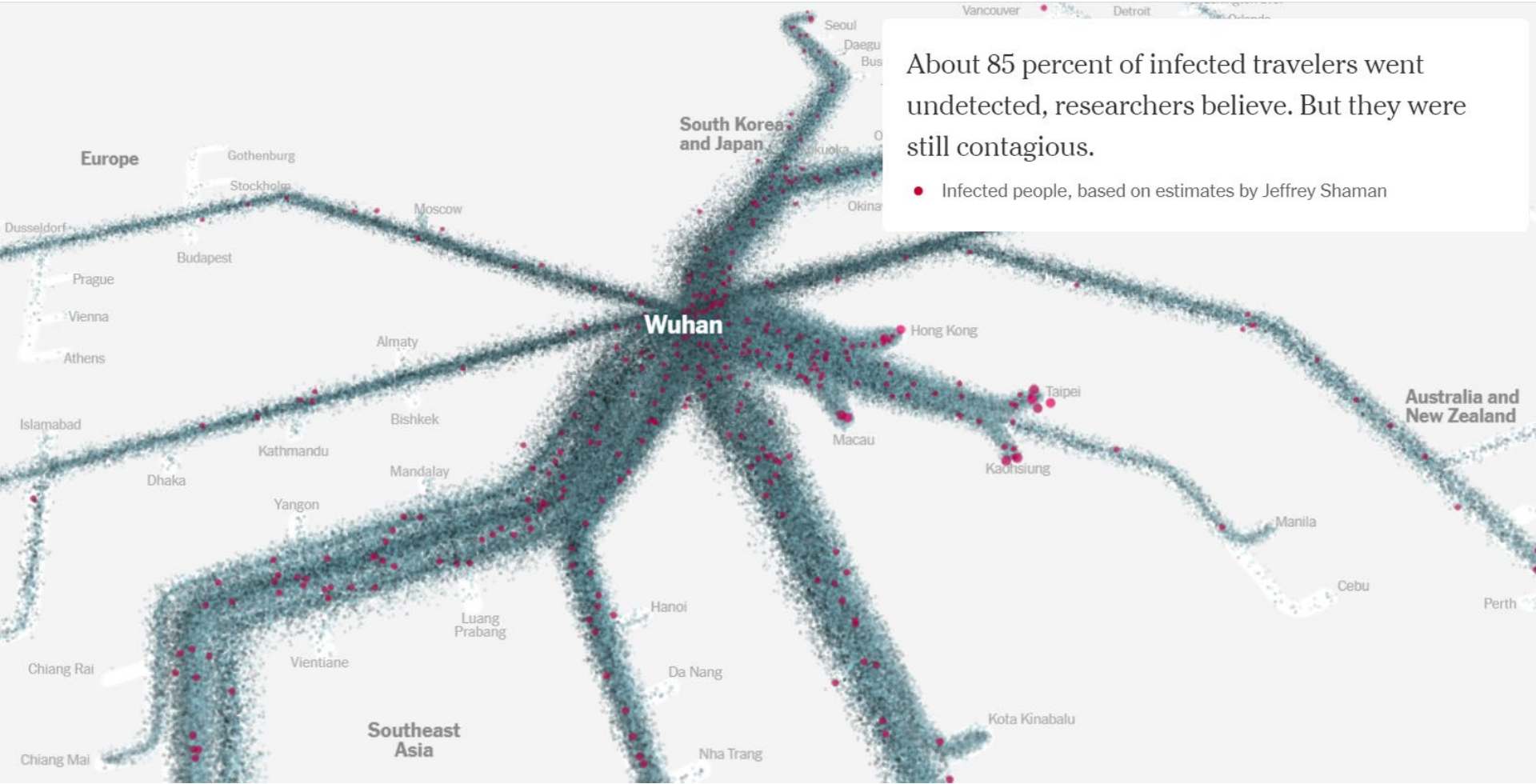Advanced Visual DataStories – NYTimes : **Technology**

ONE NATION, TRACKED

Advanced Visual DataStories – NYTimes : **Covid**

How the Virus Got Out
https://www.nytimes.com/interactive/2020/03/22/world/coronavirus-spread.html

> About 85 percent of infected travelers went undetected, researchers believe. But they were still contagious.
>
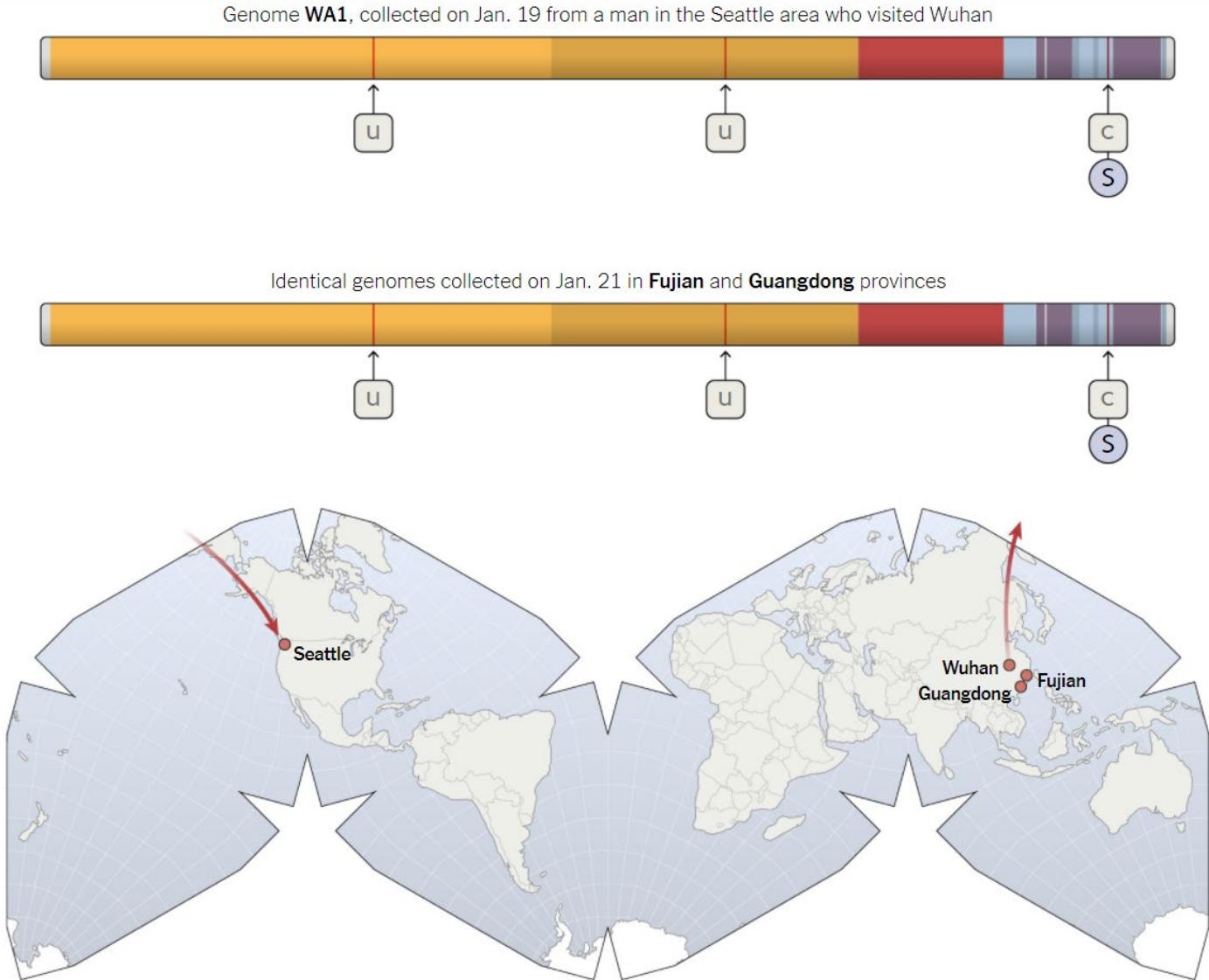> ● Infected people, based on estimates by Jeffrey Shaman

Advanced Visual DataStories – NYTimes : **Covid**

How Coronavirus Mutates and Spreads
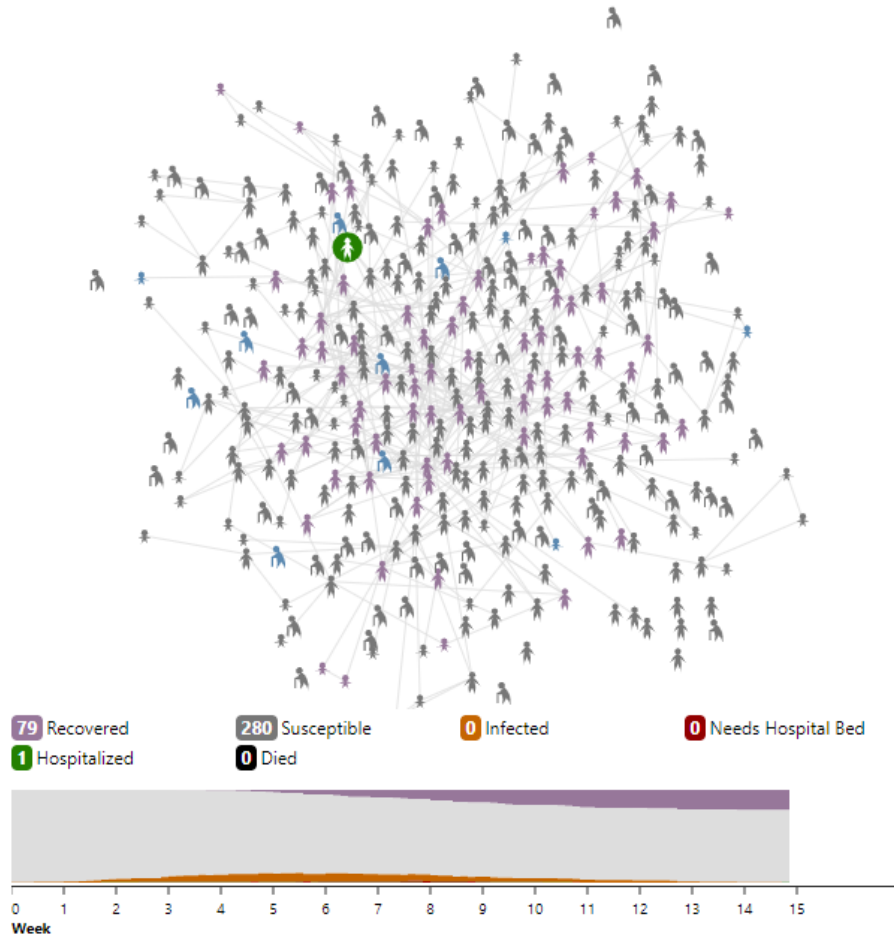https://www.nytimes.com/interactive/2020/04/30/science/coronavirus-mutations.html

Genome **WA1**, collected on Jan. 19 from a man in the Seattle area who visited Wuhan

Identical genomes collected on Jan. 21 in **Fujian** and **Guangdong** provinces

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Advanced Visual DataStories – **Covid**

Making sense of COVID19 through simulations
http://www.r2d3.us/covid-19/

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The True Colors of America's Political Spectrum Are Gray and Green
https://www.nytimes.com/interactive/2020/09/02/upshot/america-political-spectrum.html

The Colors of Clinton and Trump Precincts

| +100 pts. | +80 | +60 | +40 | +20 | Even | +20 | +40 | +60 | +80 | +100 |

Clinton won by more   **Margin of victory**   Trump won by more
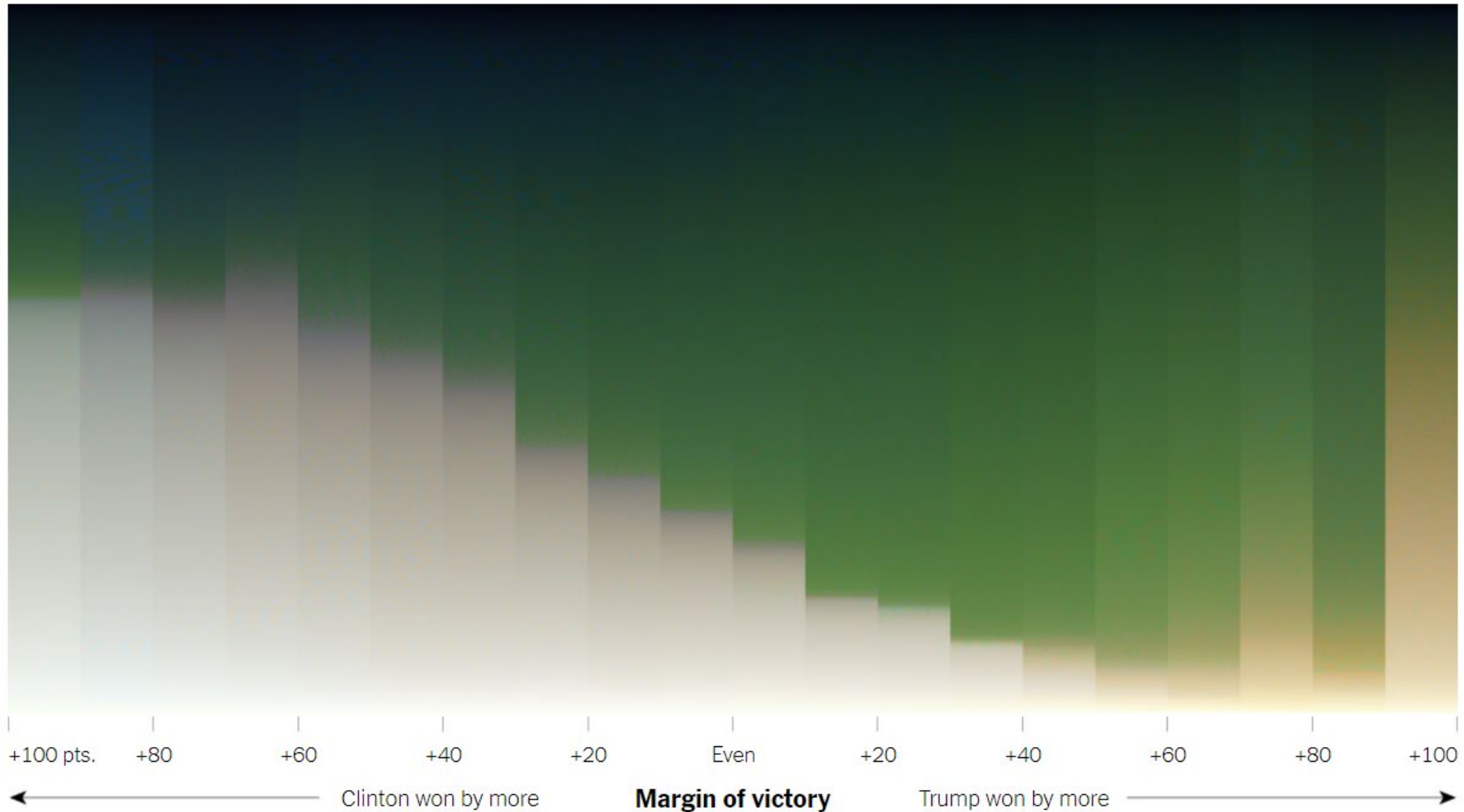
The Swamp That Trump Built
https://www.nytimes.com/interactive/2020/10/10/us/trump-properties-swamp.html
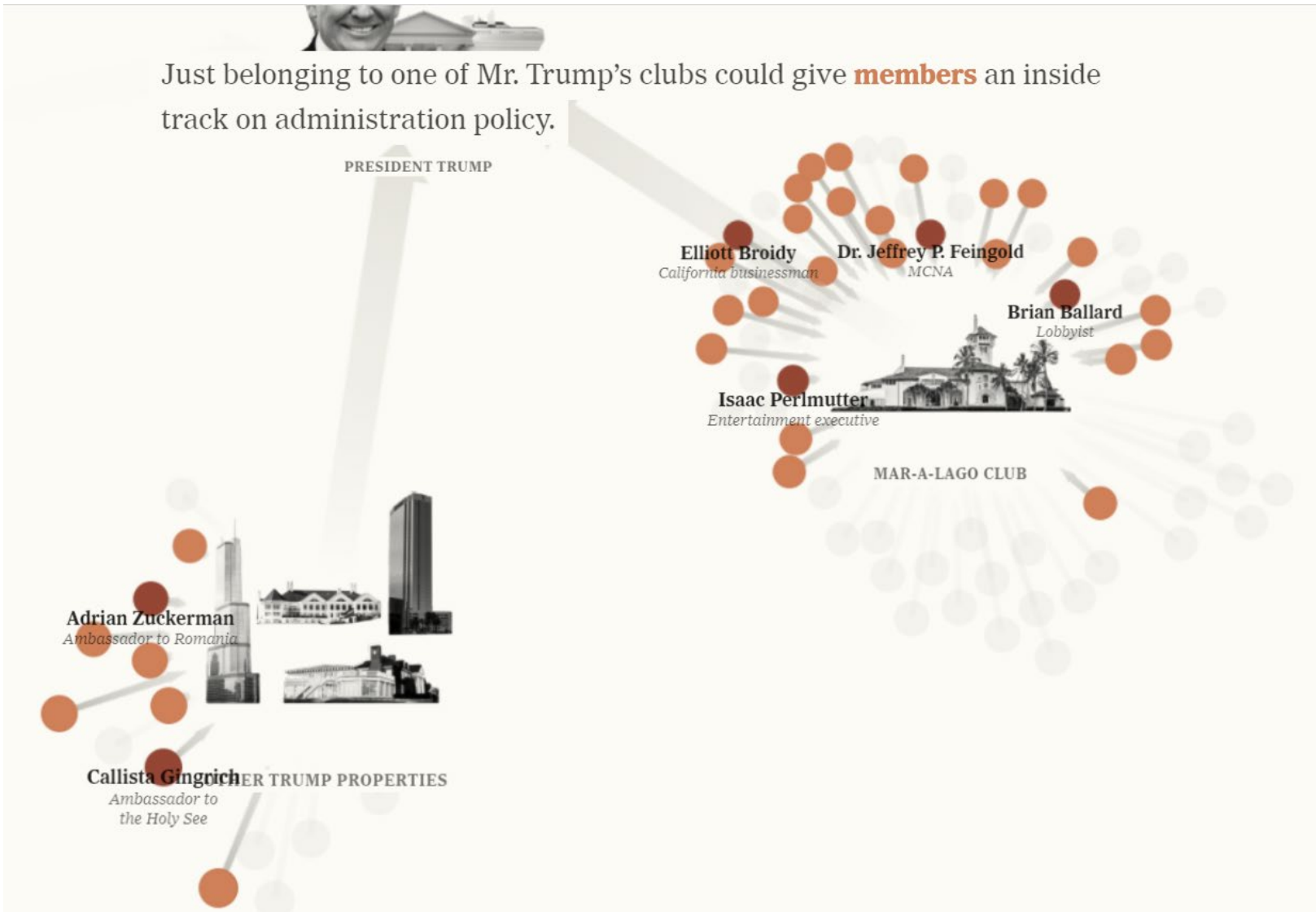
Advanced Visual DataStories – NYTimes : **Gender & Race**

Extensive Data Shows Punishing Reach of Racism for Black Boys
https://www.nytimes.com/interactive/2018/03/19/upshot/race-class-white-and-black-men.html

Follow the lives of 8,945 boys who grew up in rich families ...

...and see where they end up as adults:

Grew up rich

Rich adult

	WHITE MEN	BLACK MEN
Rich adult	1,192 (39%)	555 (18%)
Upper-middle-class adult	756 (25%)	596 (19%)
Middle-class adult	465 (15%)	645 (21%)
Lower-middle-class adult	308 (10%)	633 (21%)
Poor adult	307 (10%)	673 (22%)

Most white boys ▪ raised in wealthy families will stay rich or upper middle class as adults, but black boys ▪ raised in similarly rich households will not.

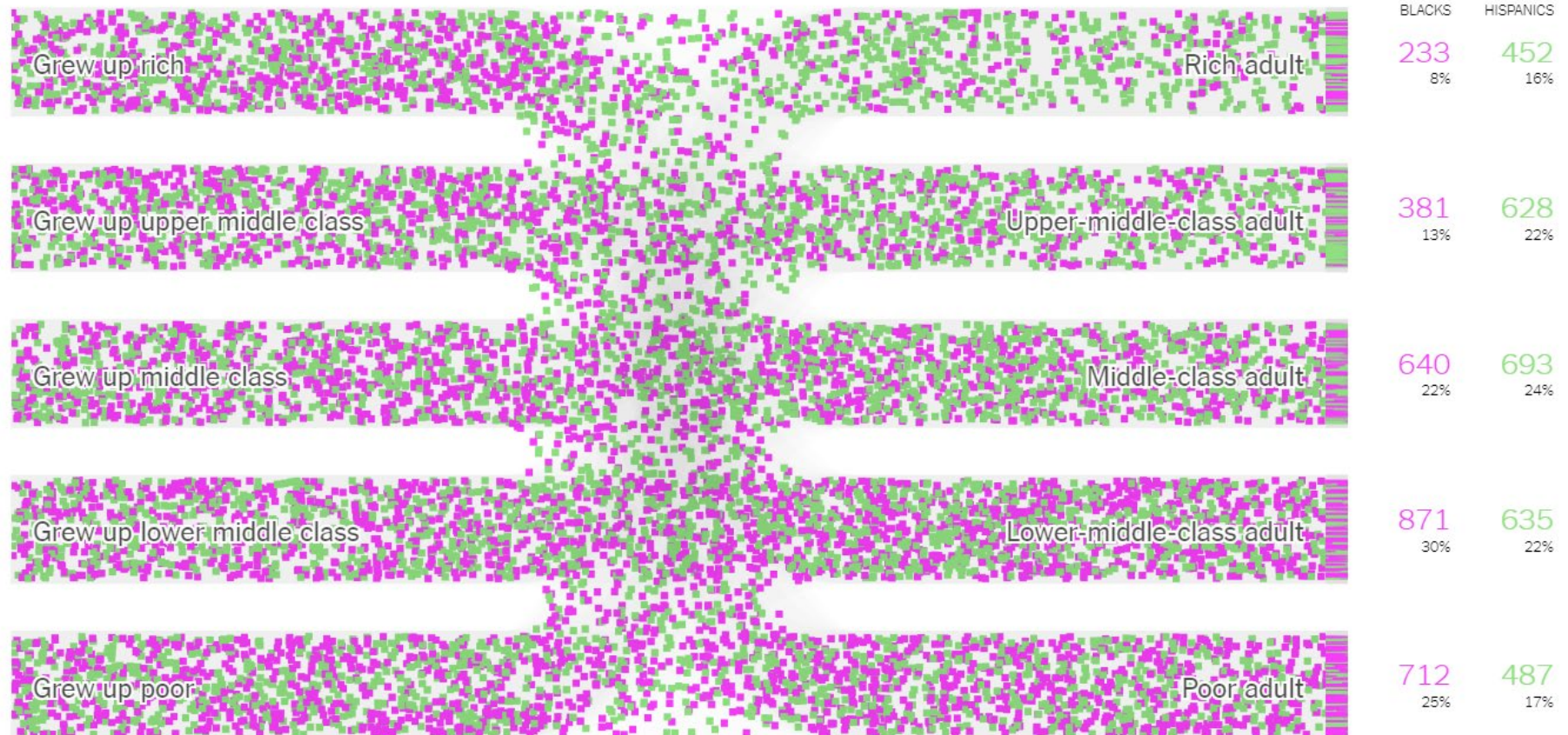Adult outcomes reflect household incomes in 2014 and 2015.

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Advanced Visual DataStories – NYTimes : **Gender & Race**

Income Mobility Charts for Girls, Asian-Americans and Other Groups
https://www.nytimes.com/interactive/2018/03/27/upshot/make-your-own-mobility-animation.html

Black and **Hispanic** children from all income groups, as measured by household income

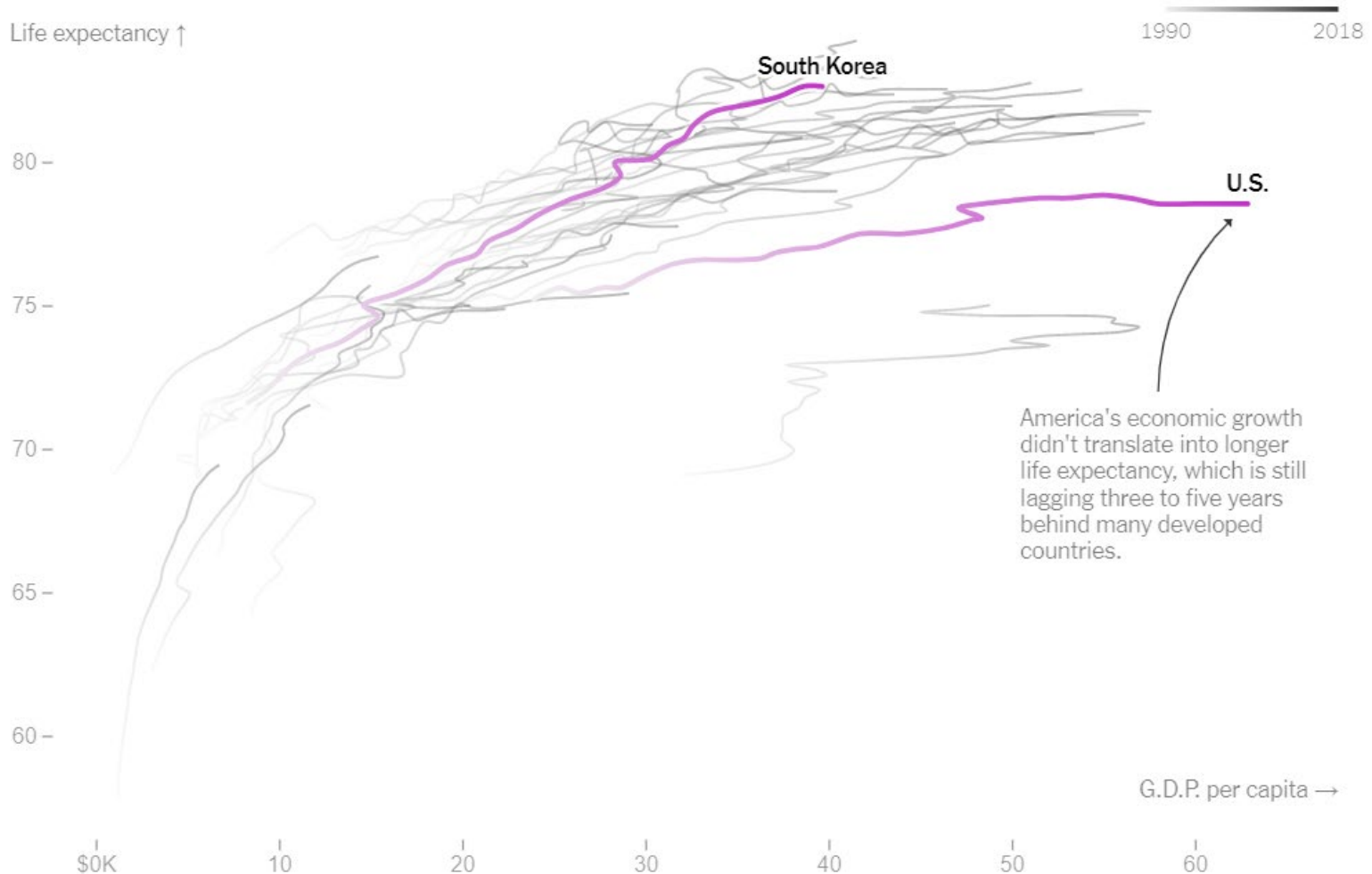Follow the lives of these **18,891** Americans and see where they end up as adults:

	BLACKS	HISPANICS
Grew up rich → Rich adult	233 (8%)	452 (16%)
Grew up upper middle class → Upper-middle-class adult	381 (13%)	628 (22%)
Grew up middle class → Middle-class adult	640 (22%)	693 (24%)
Grew up lower middle class → Lower-middle-class adult	871 (30%)	635 (22%)
Grew up poor → Poor adult	712 (25%)	487 (17%)

The U.S. Is Lagging Behind Many Rich Countries. These Charts Show Why
https://www.nytimes.com/interactive/2020/07/02/opinion/politics/us-economic-social-inequality.html

Life expectancy and G.D.P. per capita 1990-2018

Life expectancy ↑

1990   2018

South Korea

80 –

U.S.

75 –

America's economic growth didn't translate into longer life expectancy, which is still lagging three to five years behind many developed countries.

70 –

65 –

60 –

G.D.P. per capita →

$0K   10   20   30   40   50   60

Note: G.D.P. (PPP) in current international dollars; data for G20 countries and E.U. is shown; excludes Ireland, Luxembourg, South Africa and countries with incomplete data | Source: World Bank

America Will Struggle After Coronavirus. These Charts Show Why

https://www.nytimes.com/interactive/2020/04/10/opinion/coronavirus-us-economy-inequality.html

But for the very wealthy, the story is completely different. Their after-tax incomes have risen much faster than G.D.P. — up **420 percent** since 1980.
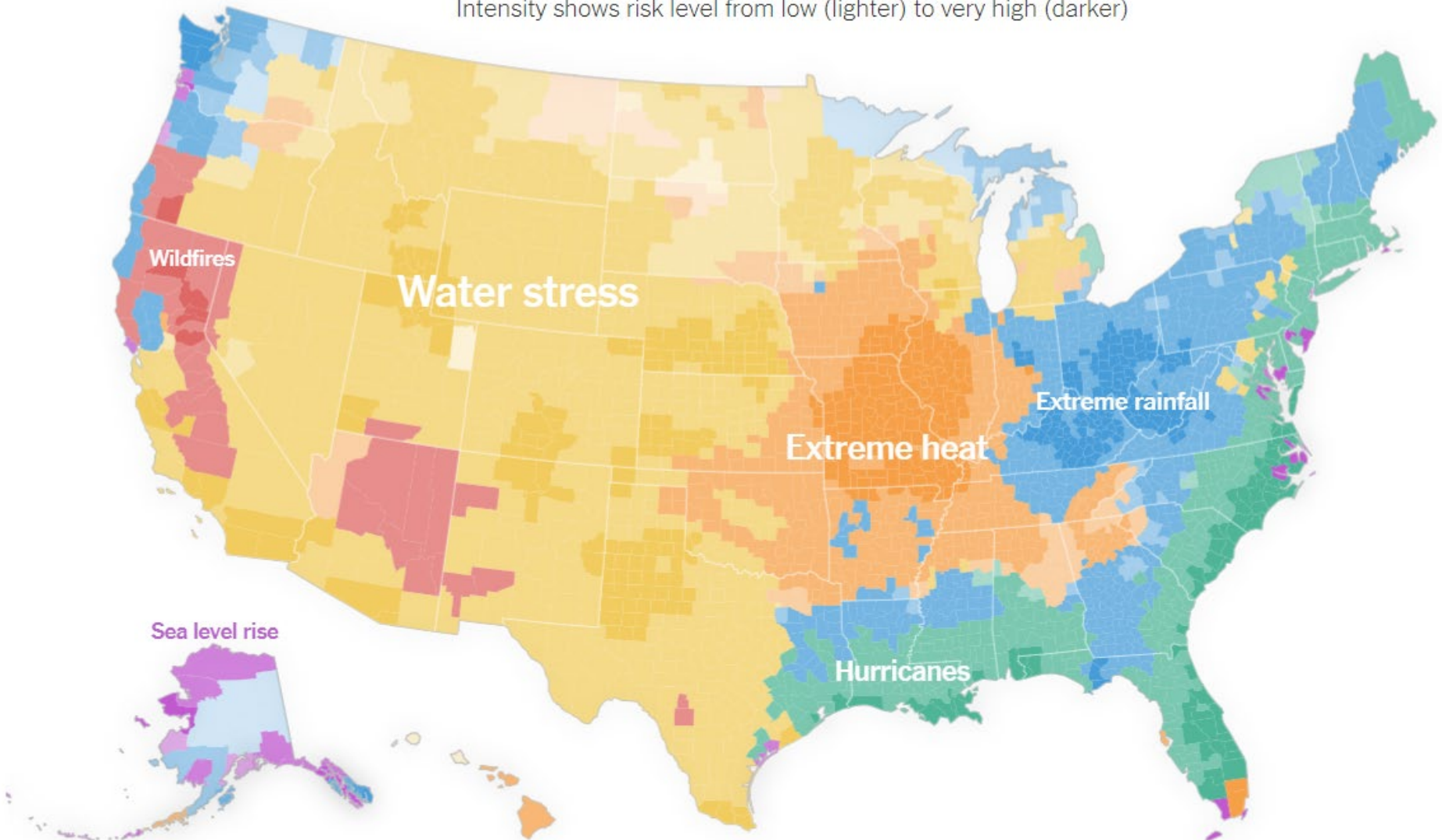
Top 0.01%

Per capita GDP
Middle 40%
Bottom 50%
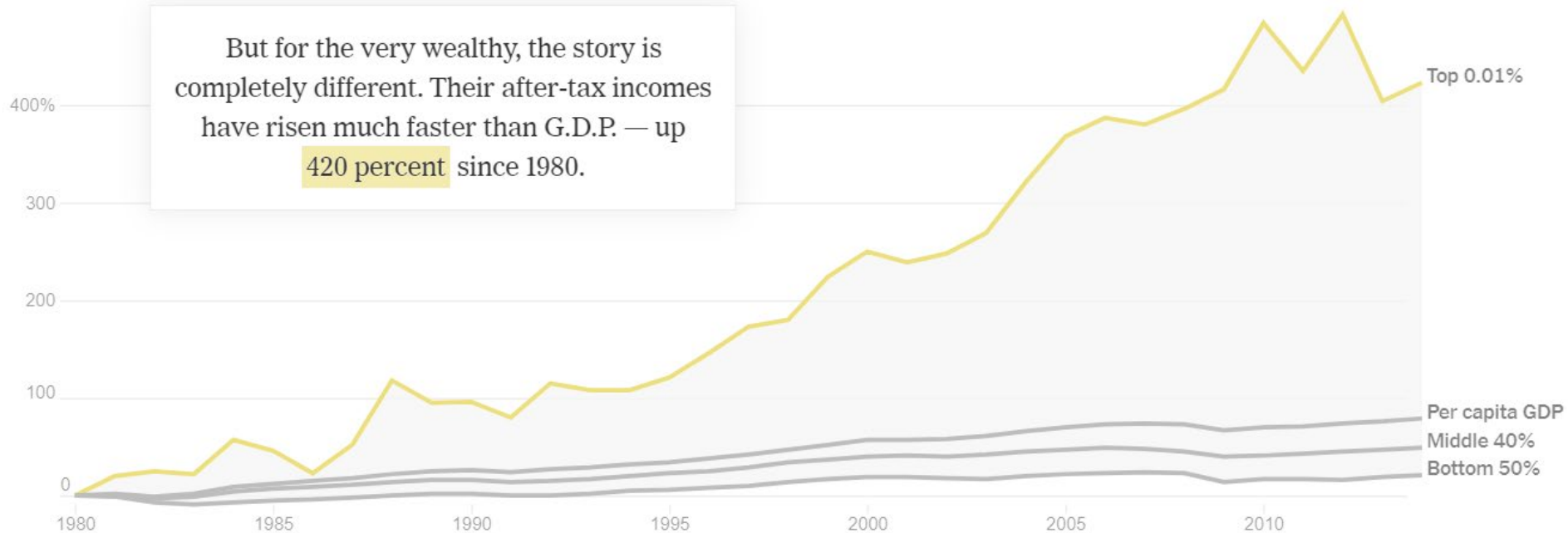
Every Place Has Its Own Climate Risk. What Is It Where You Live?
https://www.nytimes.com/interactive/2020/09/18/opinion/wildfire-hurricane-climate.html

What to call climate change where you live

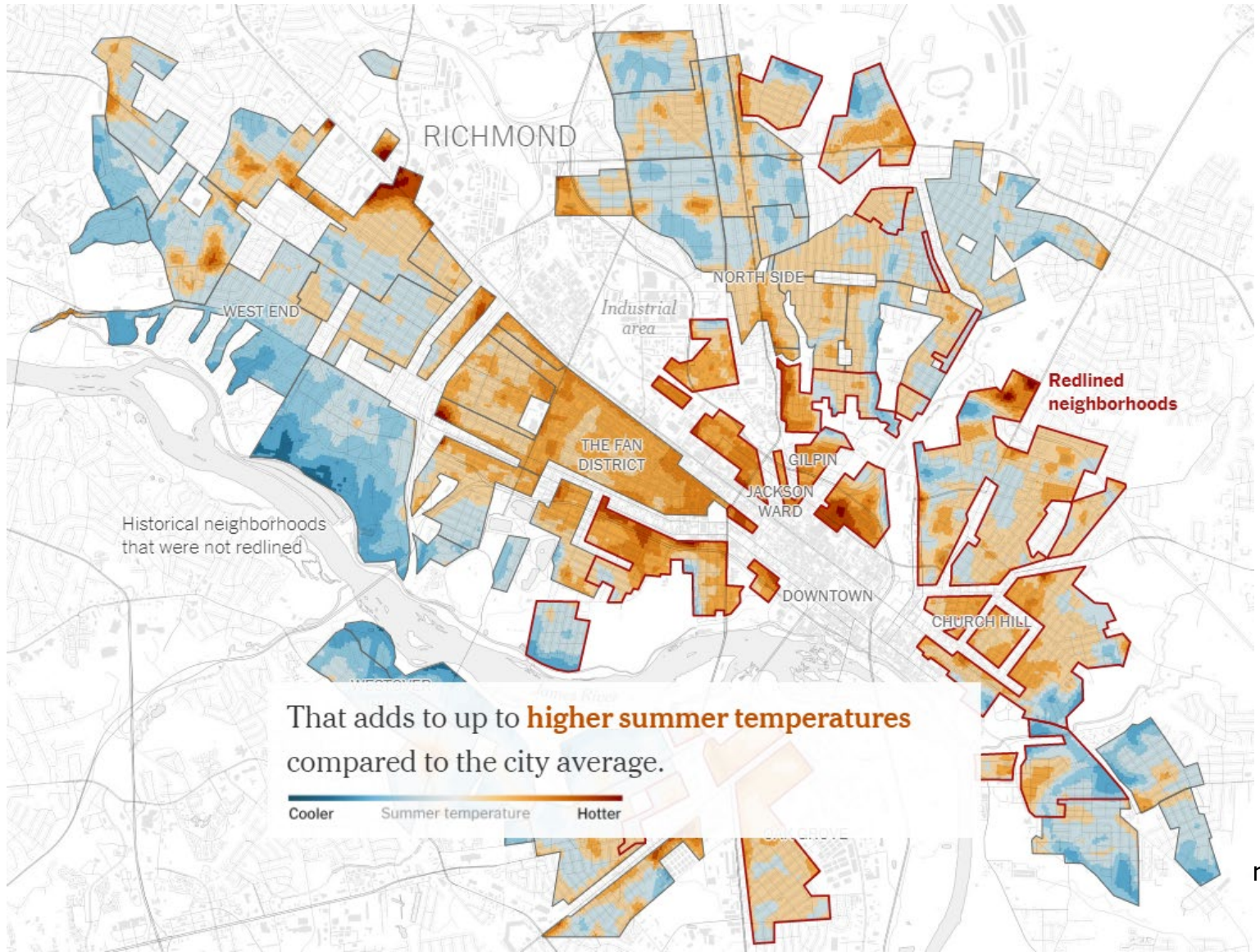Intensity shows risk level from low (lighter) to very high (darker)

How Decades of Racist Housing Policy Left Neighborhoods Sweltering
https://www.nytimes.com/interactive/2020/08/24/climate/racism-redlining-cities-global-warming.html

RICHMOND

NORTH SIDE

Industrial area

WEST END

Redlined neighborhoods

THE FAN DISTRICT

GILPIN

JACKSON WARD

Historical neighborhoods that were not redlined

DOWNTOWN

CHURCH HILL

That adds to up to **higher summer temperatures** compared to the city average.

Cooler   Summer temperature   Hotter

ri

The Great Climate Migration
https://www.nytimes.com/interactive/2020/07/23/magazine/climate-migration.html

Billions of people call this land home.

As the climate changes,
drought and food insecurity
drive rural residents in
Mexico and Central America
out of the countryside.

FEWER
PEOPLE

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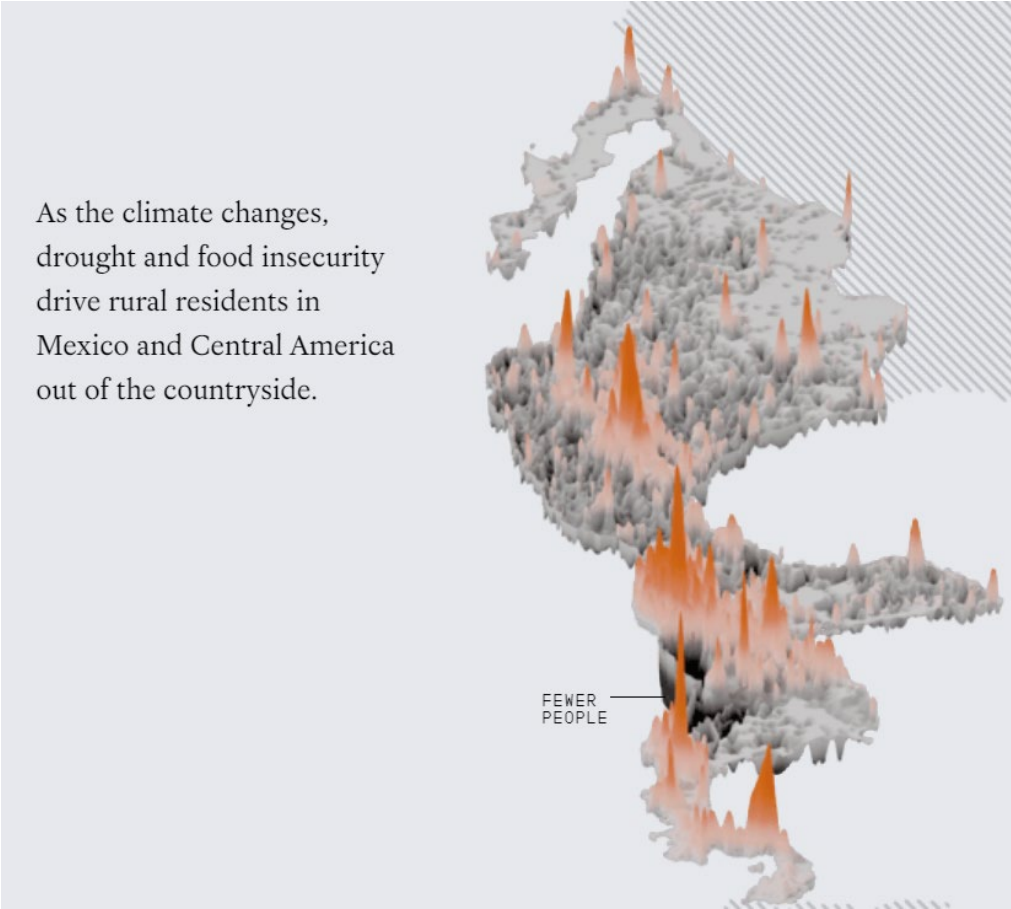
See How the World's Most Polluted Air Compares With Your City's
https://www.nytimes.com/interactive/2019/12/02/climate/air-pollution-compare-ar-ul.html

AIR QUALITY BASED ON PARTICULATE POLLUTION

12 35 55   150   250   500 µg/m3
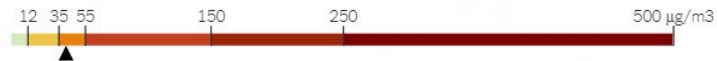
This is pollution in **Manhattan ▾** on the worst air quality day this year. Particulate concentrations reached **41 µg/m³** during the highest hour, a level that would be considered **"unhealthy for sensitive groups."**