

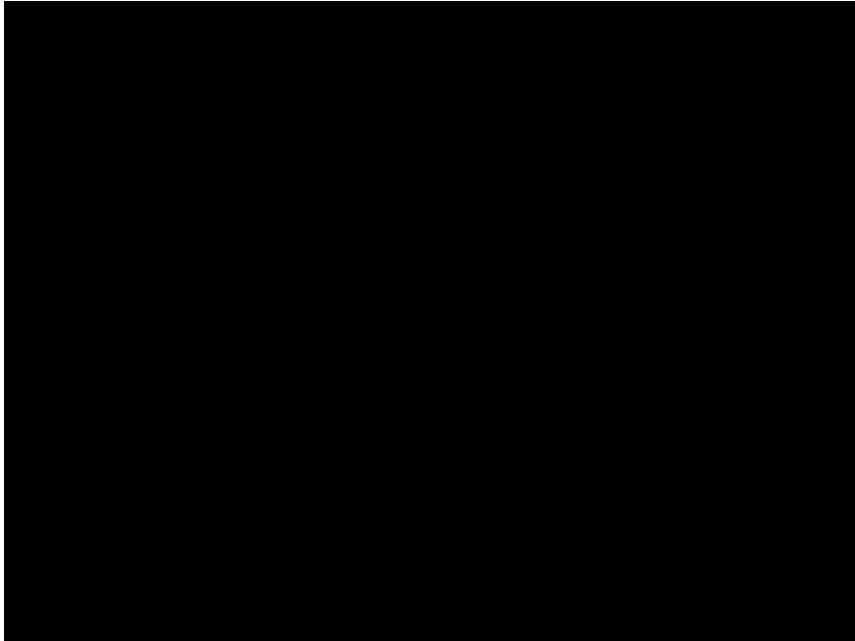
Washington Post Graphics

2018

BIG PROJECTS, SMALL DETAILS

Summer Tan

Navigating the Border



The barriers that define the U.S.-Mexico borderline



Joe Fox

Graphics reporter

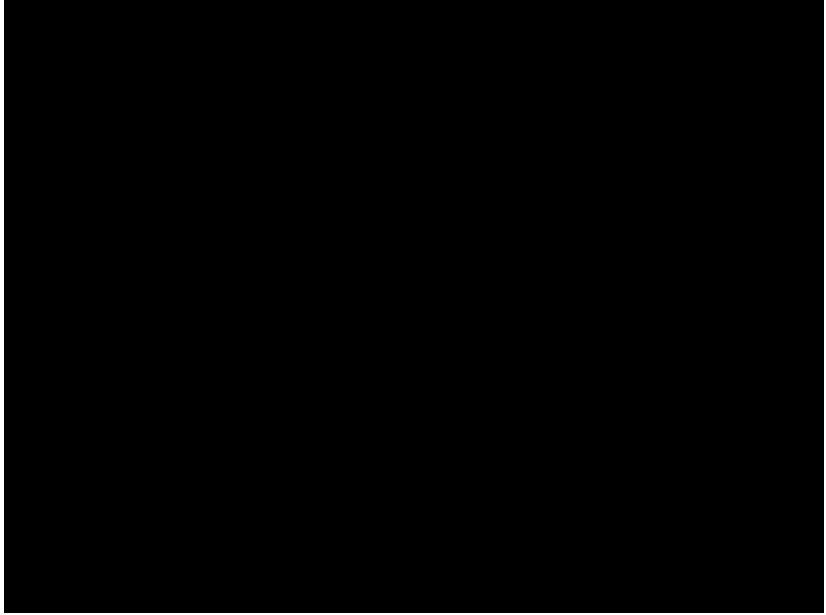
When we were building a 3-D flyover of the U.S.-Mexico border, we wanted a way to give some context of where the camera was and which direction it was facing at any given time. We had different ideas: an arrow that always pointed north, a moving icon on the mini map that would point in the right direction, a virtual highway sign that would tell you the nearest major cities. We decided to do all three, but the highway sign is my favorite.

[Go to the full graphic](#) 



[Original post](#)

Unequal Justice



[Original post](#)



Unequal justice

In the past decade, nearly 26,000 murders have gone without an arrest in major American cities. Almost three-quarters of the victims were black.



Danielle Rindler

Graphics assignment editor

We included the names of nearly 26,000 victims whose murderers haven't been arrested, and then as you scroll, you see the staggering proportion of those people who are black. This approach helped draw readers into a complex story by making a poignant statement while simultaneously humanizing the victims and showcasing our original analysis.

The detail



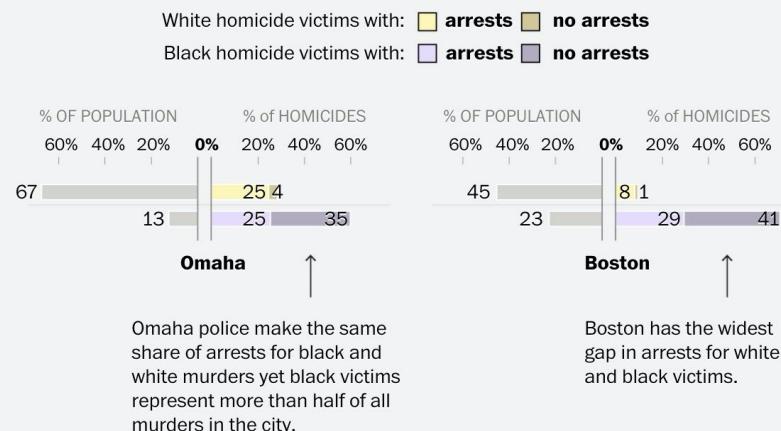
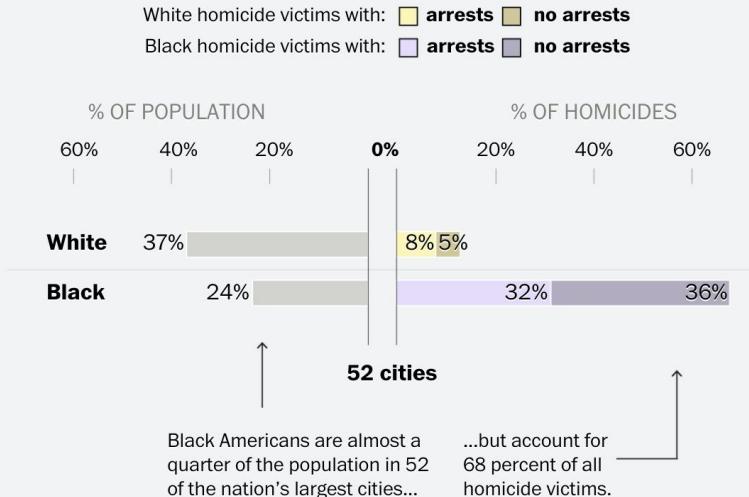
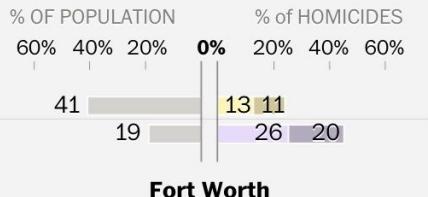
Statistic comparison



In four cities, including Fort Worth and Tampa, arrests for black victims were made just as or slightly more often than the murder of white victims.

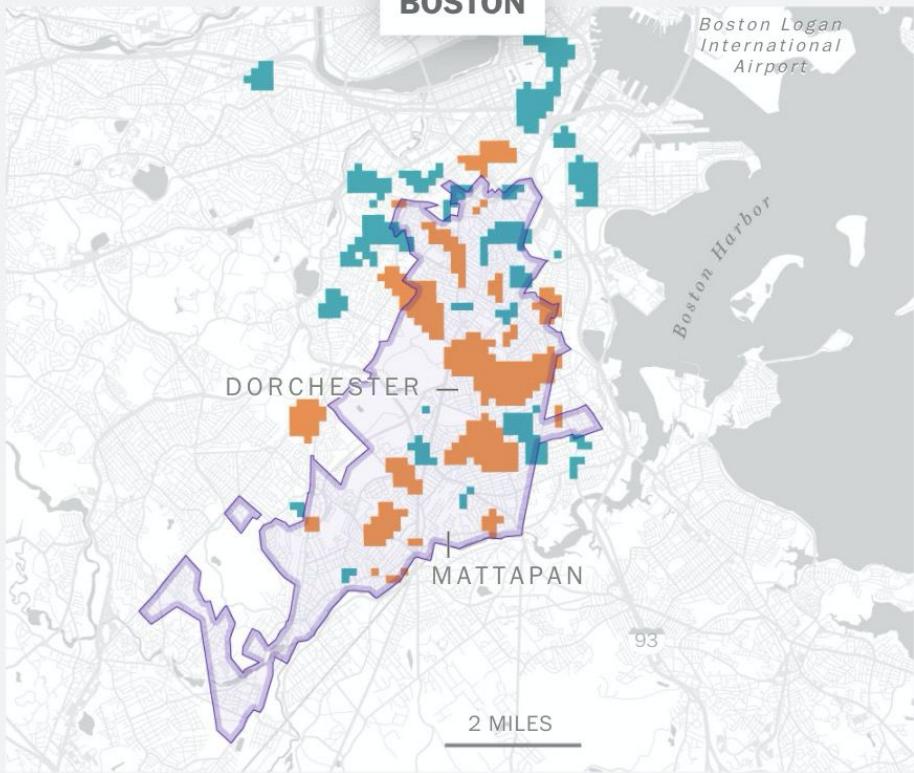
White homicide victims with: arrests no arrests

Black homicide victims with: arrests no arrests

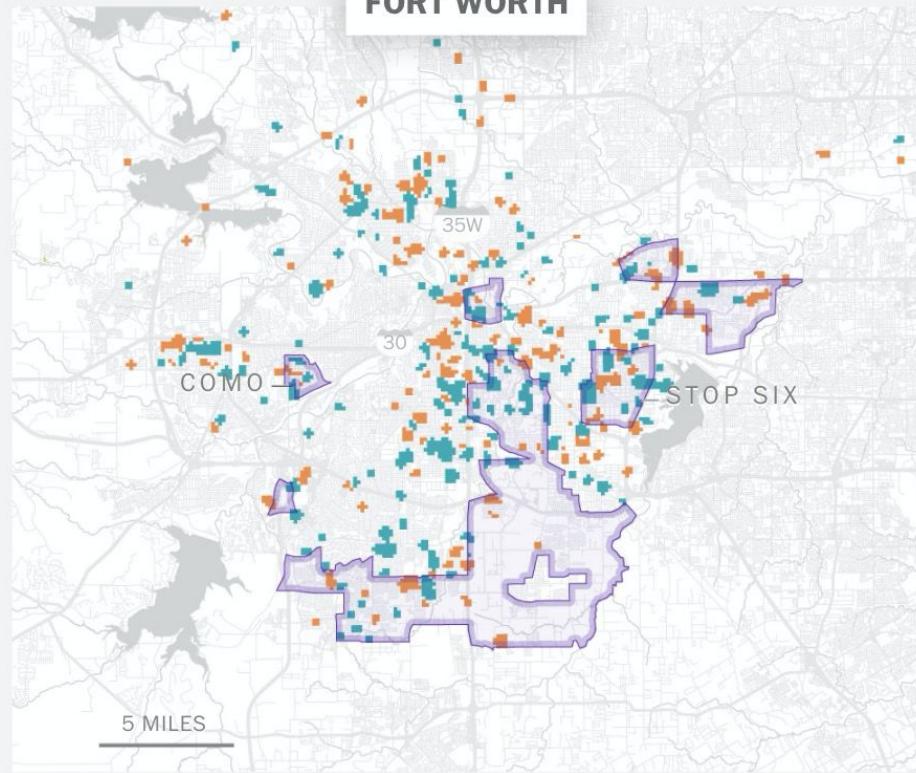


LOW-ARREST AREA HIGH-ARREST AREA BLACK NEIGHBORHOODS

BOSTON



FORT WORTH



Segregation in U.S. cities

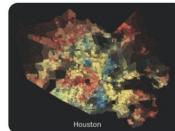


Aaron Williams

Graphics reporter

I spent most of late 2017 trying to implement a dot-density algorithm using node.js to show population density by race for the District only. Once I figured that out, I tried to do the same thing for all 50 states . . . and failed. I'd go on to spend most of spring 2018 working with Armand Emamdjomeh on refining my code to generate the data (and images) needed for this project. I learned a ton of technical details about how node.js works and how to create data pipelines with it. It's awesome to now see this code move beyond its intended domain into projects like our election pages and several other maps we've worked on.

[Go to the full graphic](#)

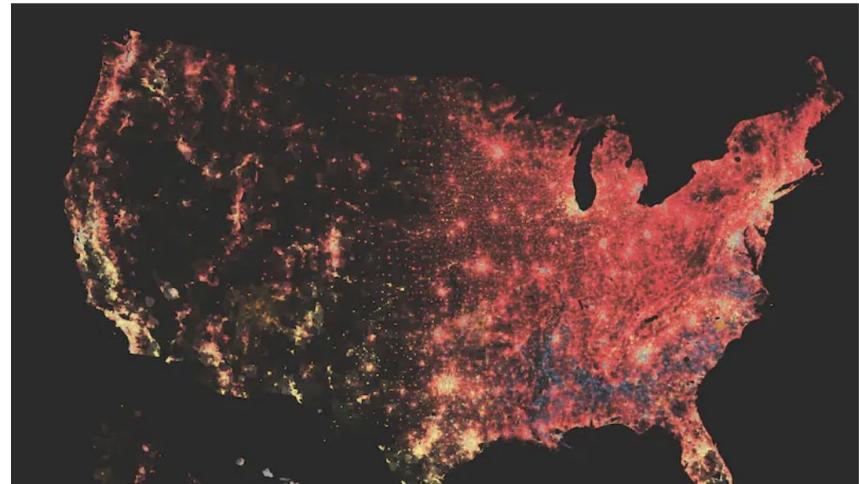


Armand Emamdjomeh

Graphics reporter

Coming up with a color palette for our dot density layers was an interesting challenge. All of the colors needed to work on a dark background and be distinct enough from one another that you could tell both large patches and individual dots apart. While developing color schemes isn't something I've had a lot of success with in the past, I like how this one came out; the colors are strong enough to pop off the page and stand apart from one another, but not so bright that they're painful to look at.

[Go to the full graphic](#)



Segregation in U.S. cities

America is more diverse than ever — but still segregated

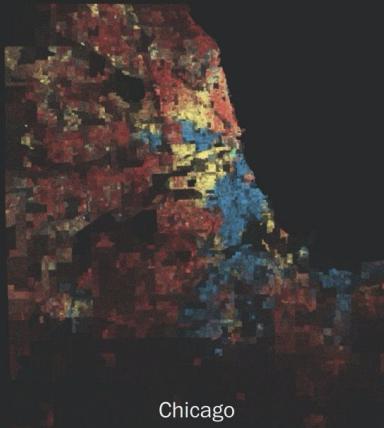
[Original post](#)

America is more diverse than ever – but still segregated

The United States is on track to be a majority-minority nation by 2044. But census data show most of our neighbors are the same race.

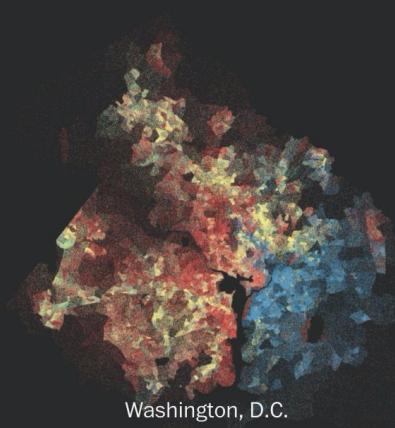
By [Aaron Williams](#) and [Armand Emamdjomeh](#) Updated May 10, 2018

- Black
- White
- Hispanic
- Asian/Pacific Islander
- Native American
- Multi-race and other



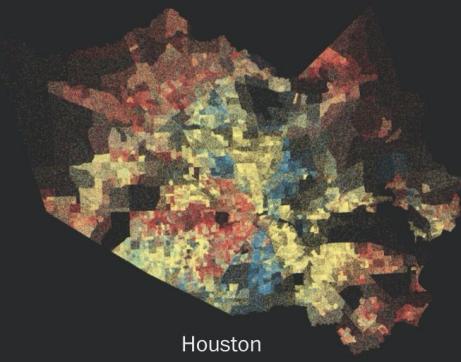
Chicago

Legacy segregation



Washington, D.C.

Diverse suburbs

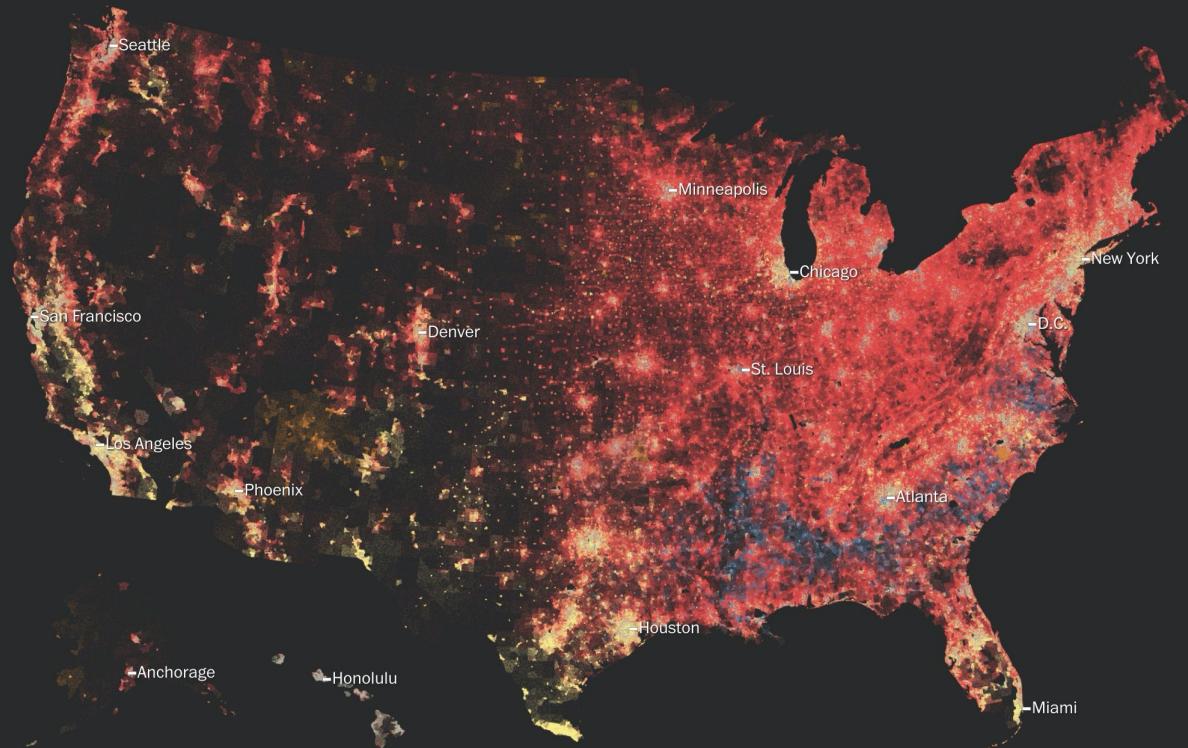


Houston

Rapidly integrated



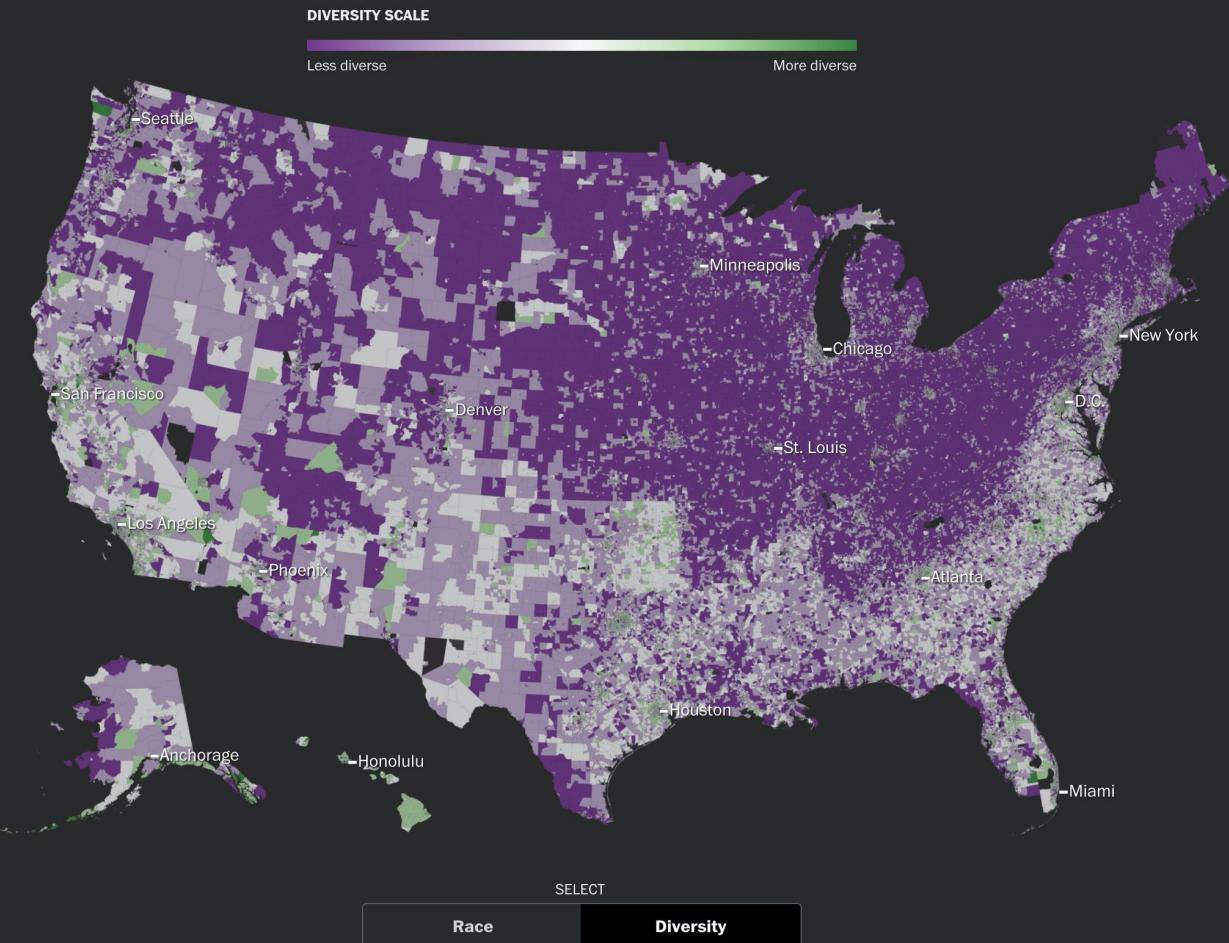
Black White Hispanic
Asian/Pacific Islander Native American Multi-race and other

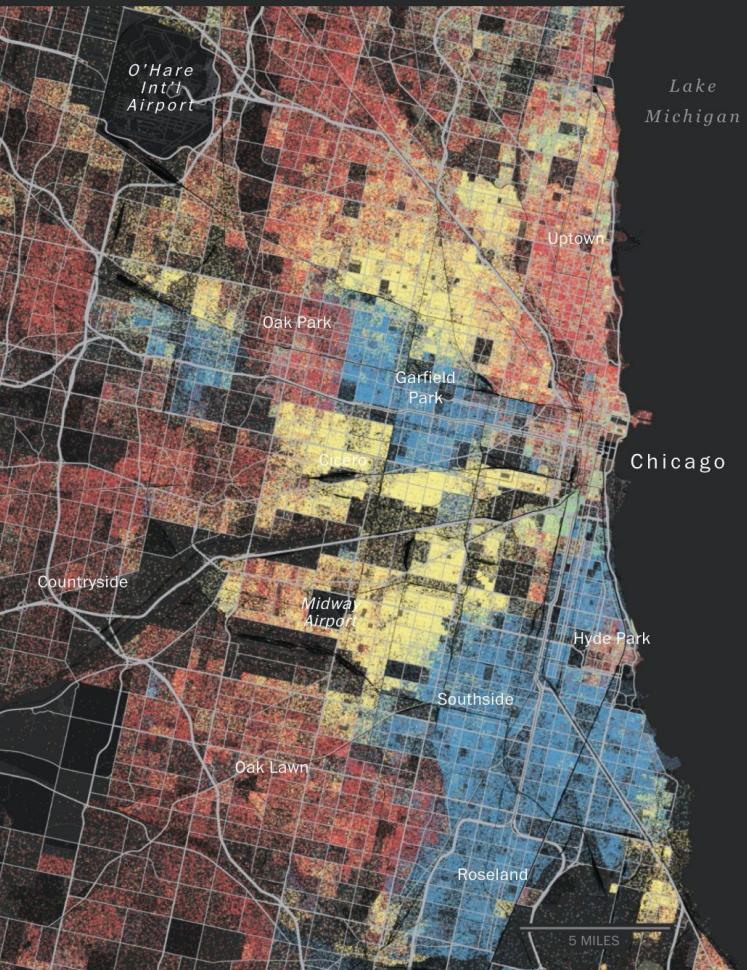
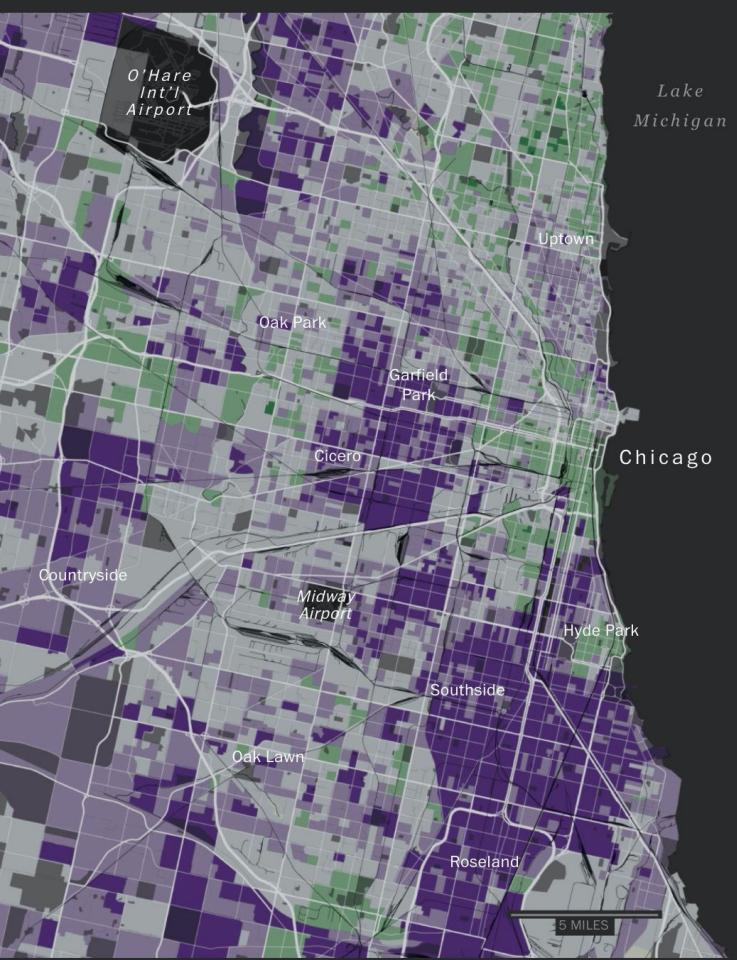


SELECT

Race

Diversity





1968 Riot in Washington D.C.

On April 4, 1968, the country was still reeling from racial tensions that had sparked deadly riots the year before in Detroit and Newark. But the capital city was said to be special. Some whites called it “the colored man’s paradise.” For thousands of blacks, there was a darker side to paradise, one where humiliation, poverty, segregation and discrimination had accumulated for a century.

Then, shortly after 8 p.m., word reached the District that the Rev. Martin Luther King Jr. had been slain in Memphis. His assassination ignited an explosion of rioting, looting and burning that stunned Washington and would leave many neighborhoods in ruins for 30 years.

[Original post](#)



The four days that reshaped D.C.



Lauren Tierney

Graphics reporter

This was my favorite cartographic project I've worked on at The Post, mainly because it involved a lot of research into historical map design. When designing a new map, one of my favorite things to do is to look to the past for inspiration, and this project provided ample opportunity. The north arrow on the main map (included in the print version, the graphic linked here is the online version) was one of my favorite touches we added, styled after the 1960s National Capital Planning Commissions map we used as a data source.



Surviving Parkland after 2018

What the bullet did to Kyle's leg



[Original post](#)



Surviving Parkland

A teen's road to recovery after a mass school shooting



Aaron Steckelberg

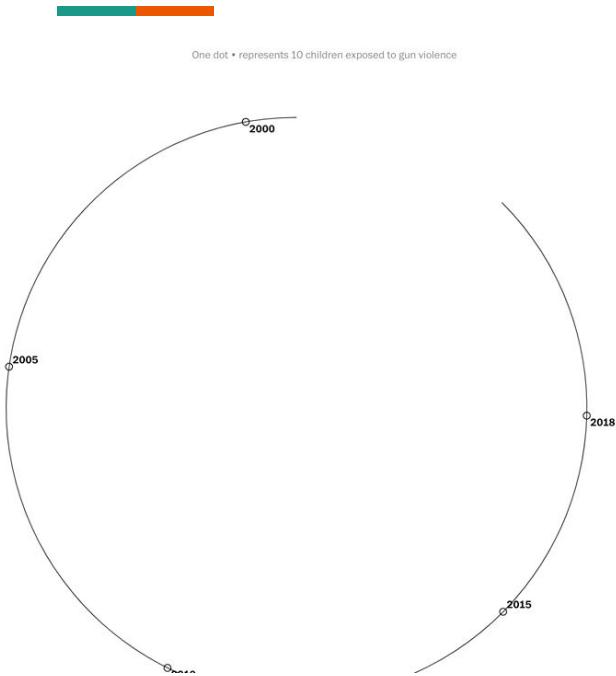
Senior graphics editor

It was a liberating experience to animate this process. It gave me the ability to see inside the leg and how the muscle and tendons interact with bone, why that tendon is important by seeing how it moves a foot and how the victim's injury was repaired. By linking the animation to scroll, readers can move through the information at their own speed, stop or even reverse to observe different parts in greater detail. Another aspect of this entire project was tone — to approach the topic with sensitivity and to choose a style of illustration that was informative but not sensational. For this I drew inspiration from established sources of medical knowledge, such as Gray's Anatomy textbooks, works by classic artist like Albrecht Dürer and my own fine art education.

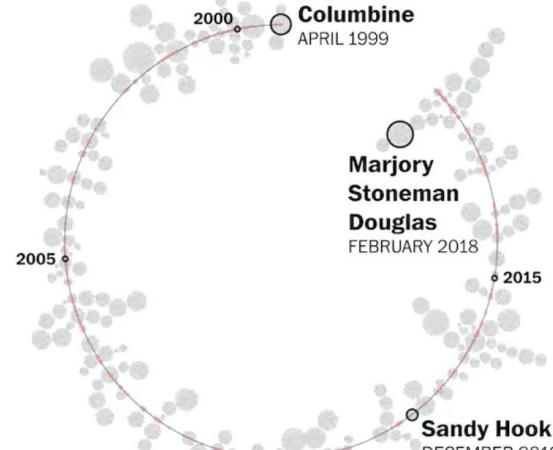
The detail



School Shooting Database



[Original post](#)



School shootings database

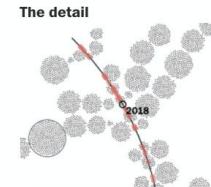
More than 219,000 students have experienced gun violence at school since Columbine



John Muyskens

Graphics reporter

Creating this organic-looking visualization involved a lot of math. The clusters, which represent students exposed to gun violence at school, are placed by an algorithm — which took relearning some high school geometry to get it working. The chart is drawn dynamically based on when you view it and the latest data, which we continue to update as school shootings continue to happen.



Words never used before

As President Trump focused more sharply on his administration's accomplishments, his third official State of the Union address added a few soaring words to its lexicon. He referred to the building of "skyscrapers" and to "unbridled" optimism, and reached to describe the whole country as a "masterpiece." No president had used those words before in more than 200 such addresses to Congress dating back to 1790.

Yet Trump also managed a few new grisly words when talking about violence, most notably describing a "gruesome spree," two words that had never made their way into an address.

[Original post](#)

over his limbs. He then endured multiple **amputations** without anything to dull the pain or the hurt. Immediately, Justin bounded into the **booby**-trapped and unbelievably dangerous and unsafe b it we can be. We saw the volunteers of the **Cajun** Navy, racing to the rescue with their fishing boats t . Seong-ho traveled thousands of miles on **crutches** all across China and Southeast Asia to freedom to work three-and-a-half months later, the **legend** from Louisiana, Congressman Steve Scalise. I th irocracy, are the center of American life. The **motto** is "in God we trust." And we celebrate our police, o pport our response to the terrible crisis of **opioid** and drug addiction. Never before has it been like it ndria Police, and the doctors, nurses, and **paramedics** who saved his life and the lives of many other ground transport and maintained artificial **respiration** through two-and-a-half hours and through em autoworkers so that we can get Motor City **revving** its engines again. And that's what's happening. N 'America's soul and the steel in America's **spine**. Each test has forged new American heroes to remilitary is no longer undermined by artificial **timelines**, and we no longer tell our enemies our plans. L er returning from a brief visit to China. His **tormentors** wanted to know if he'd met any Christians. H ing a major plant from Mexico to Michigan. **Toyota** and **Mazda** are opening up a plant in Alabama, a ntry. This is all ne

Words never used before

The words Trump used in his State of the Union that had never been used before.



Ann Gerhart

Senior editor at large

I'm a big proponent of offering journalism structured like a smart museum exhibit: Offer something for the skimmers, swimmers and divers. This graphic did that, and the deep-dive detail that delighted and absorbed me was the ability to hover on a word to see how it was used. Anyone intrigued by how President Trump used "amputations," "booby" and "Cajun" could see it in the sentence. Same for President Barack Obama's first usage of "Sikh" and "gals" in 2013, and President George W. Bush's choice of "complicit" and "switchgrass" in 2006.



President Trump  Hover on a word to see how it was used

2017

Dethroned
Etched
Footprints
Imploding
Intel
ISIS
Lawn
Motorcycles
Obamacare
Quarterback
Softbank
Sophomore
Vile
Walmart

2018

Amputations
Booby
Cajun
Crutches
Legend
Mazda
Motto
Opioid
Paramedics
Respiration
Revving
Spine
Timelines
Tormentors
Toyota

2019

Bloodthirsty
Chilling
Fentanyl
Freeloading
Heartache
Hurtling
Kissing
Outspend
Rekindle
Sadistic
Screeched
SWAT
Womb

2020

Blindsided
Caliphate
Coronavirus
Gruesome
Kidney
Masterpiece
Muzzle
Neonatal
Orchestrated
Oval
Overseen
Pharmaceutical
Pilgrims
Skyscrapers
Sneeze

President Obama  Hover on a word to see how it was used

2009

Agribusiness
Biofuels
Broadband
CEOs
Gutted
Laundry
Pandemic
Peels
Reimagined
Reteamed
Sputters

2010

Bankrolled
Childcare
Cops
Honey
Meltdown
Numbing
Obesity
Offshore
Online
Outsized
Postpartisan
Relitigating
Schoolyard
Scorekeeper
Shuttered
Silly
Spectrum
Strapped
Supermajority
Swifter
Taunts
Workforce

2011

Biomedical
Bookkeeping
Click
Counterterrorism
Download
Driveways
Facebook
Google
Handheld
Hindu
Latino
Malpractice
Refighting
Reset
Roofers
Saltwater
Shingles
Stranglehold
Textbook
Turf

2012

Antifraud
Bashing
Billionaire
Counterfeit
Fiasco
Giveaways
Grandmother
Hike
Lightweight
Mercury
Outsource
Payday
Payoffs
Refighting
Reset
Redesign
Robotics
Runaround
Siemens
Spun
Stairs
Startups
Trajectory
Versa
Watchdog

2013

Bang
Brinksmanship
Budged
Bump
Classmates
Eviction
Freak
Gals
Grueling
Gunman
IBM
Majorette
Outgunned
Phony
Rebounding
Ribbons
Scares
Scorecard
Scraping
Servicemembers
Sikh
Startups
Sticker
Spikes
Superstorm
Swipe
Wildfires

2014

Asthma
Barkeep
Bone
Caregivers
Centrifuges
Coma
Costco
Detainee
Dialled
Dishes
Dough
Grueling
Gunman
IBM
Majorette
Insourcing
Malls
Microsoft
Mired
Pizza
Playbook
Pristine
Punch
Smartphones
Stadium
Typhoon
Unclogging
Underwater
Upside
Verizon

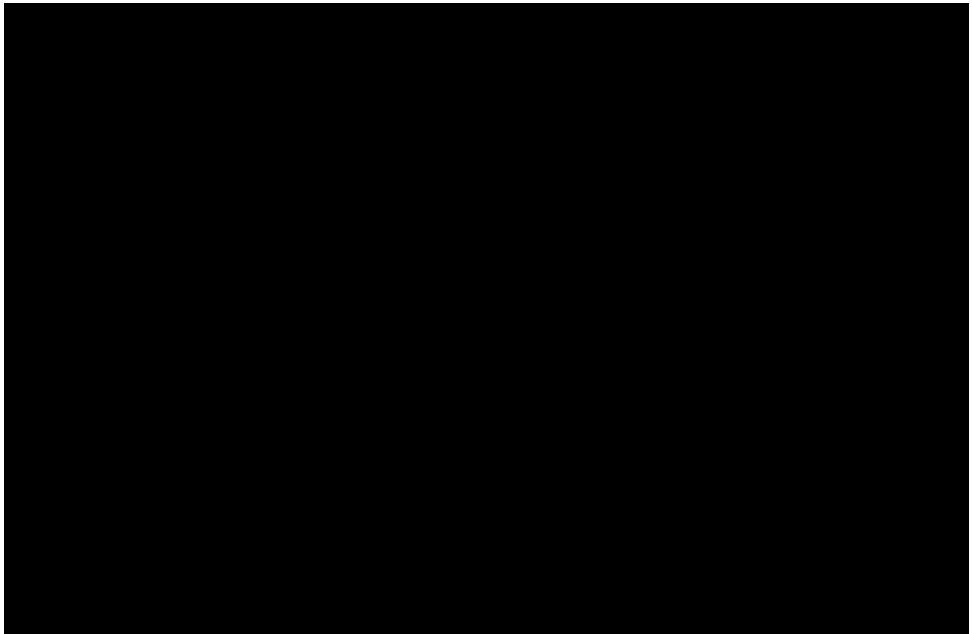
2015

Basest
Bisexual
Bone
Bluster
Bounce
Bustling
Checklist
Churning
Crisscross
Curve
CVS
Fake
eBay
Fake
Gaffes
Gotcha
Gutter
Hype
Incarceration
Instagram
ISIL
Lesbian
Microcosm
Newlyweds
Overjoyed
Prosthetics
Prouder
Reenergized
Remaking

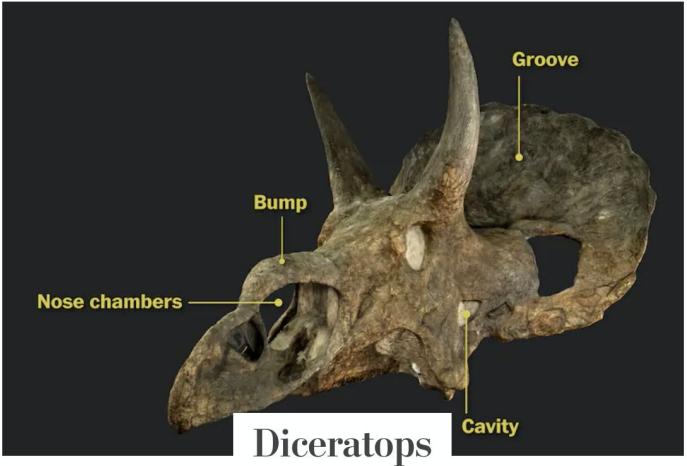
2016

Antsy
Boardrooms
Brochure
Headwinds
Marathon
Millennia
Moonshot
Partiers
Pickup
Quagmire
Recipe
Rooftops
Scapegoat
Streak
Unpatriotic
Vandalized

Diceratops



[Original post](#)



Diceratops

A mystery dinosaur in the nation's basement



Youjin Shin

Graphics reporter

My biggest contribution on this piece is the Web experience. (This article also has an augmented-reality component for compatible phones.) I focused mostly on the seamless camera animation. Because I've never worked on something like that before, I felt very much rewarded after making it happen. Later, I made the camera animation code simpler and easily applicable for various three.js projects.

[Go to the full graphic](#)

The detail



Bonnie Berkowitz

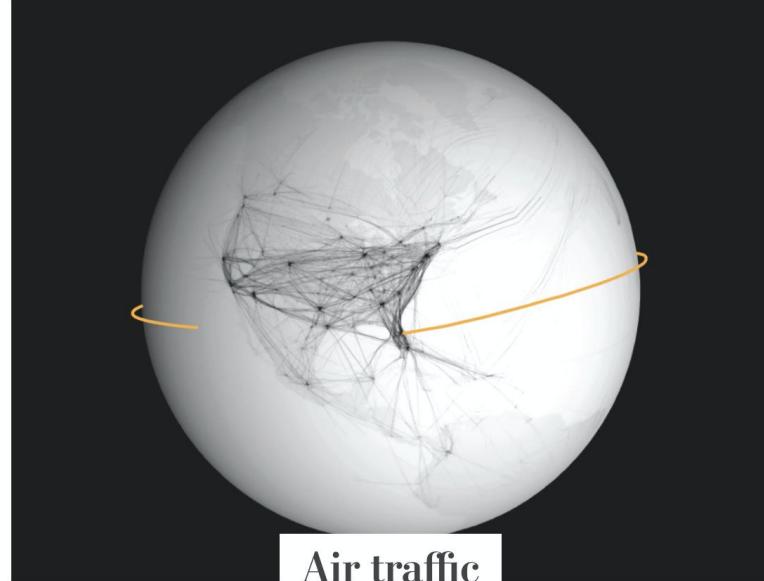
Graphics reporter

I loved the quote, "It is the Rudolph of the Triceratops!" The story is fairly short and unremarkable, but the interview process reminded me to leave my recorder on until I am out the door. I had done a whole interview in Sues's office, and then he and I went to the storage area where the fossil was kept. While we were just chatting about what the dino's life would've been like, I said something like, "I wonder if the poor thing got bullied because of his funny-looking nose?" Sues, who has a great sense of humor, laughed and said the story's best line, which also provided me with a reader-friendly way to refer to the fossil without saying "nedoceratops" over and over again.

Air Traffic



[Original post](#)



Rockets and airplanes may begin to share airspace even more. Here's how it works.



Youjin Shin

Graphics reporter

We wanted to make the graphic in 3-D because it was about airspace, but it was a challenge to run the animation smoothly in the browser, especially the last step showing planes in the air before, during and after the rocket launch. We went through our libraries and functions over and over again to make the code lighter and decreased the number of data points used. And we made it work pretty smoothly in various browsers. We loved how it works on our phones too.



Too Many Men



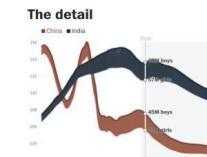
In China and India, men outnumber women by 70 million. Both nations are belatedly trying to come to grips with the policies that created this male-heavy generation.



Leslie Shapiro

Graphics reporter

My favorite little detail from this year was this “woven” chart. I wanted to capture some of the painterly effect of the illustrations without using the faded, grainy texture overlays that I used online, because they wouldn’t really work in print. I liked that this created a subtle but bespoke visual effect, while working the natural shape/brushstroke quality of the data visualization.



[Original post](#)

What's in a Food Truck



What's in a food truck

The ceiling is low, the heat is high, the bathroom is missing. But serious cooks are at work here.



Bonnie Berkowitz

Graphics reporter

While working on this piece, I gained a new appreciation for the bravery and business acumen of food truck owners in addition to their culinary skills. One ugly, chilly, windy morning, I heard Kirk Francis (a.k.a. Captain Cookie) speak to a group of students at D.C. Central Kitchen. His truck broke down in the parking lot, and while he waited in the downpour for a tow, we talked about the business and the smile-and-keep-on-going attitude required to cope with it successfully. The scene provided a small peek into the precarious nature of life in the truck — and reminded me to show up when I can rather than make a phone call.

[Original post](#)