

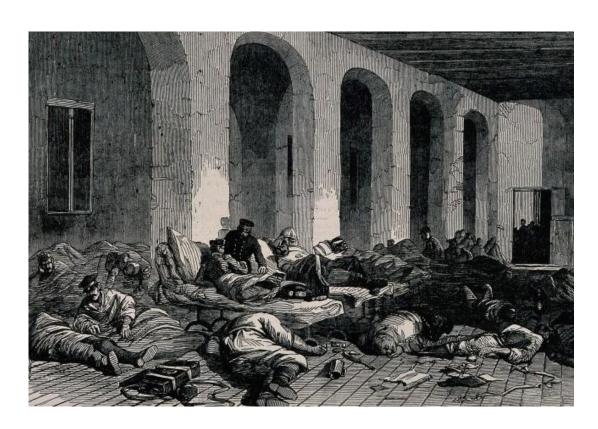


Why do we visualise data?

"to affect through the eyes what we fail to convey to the public through their word-proof ears."

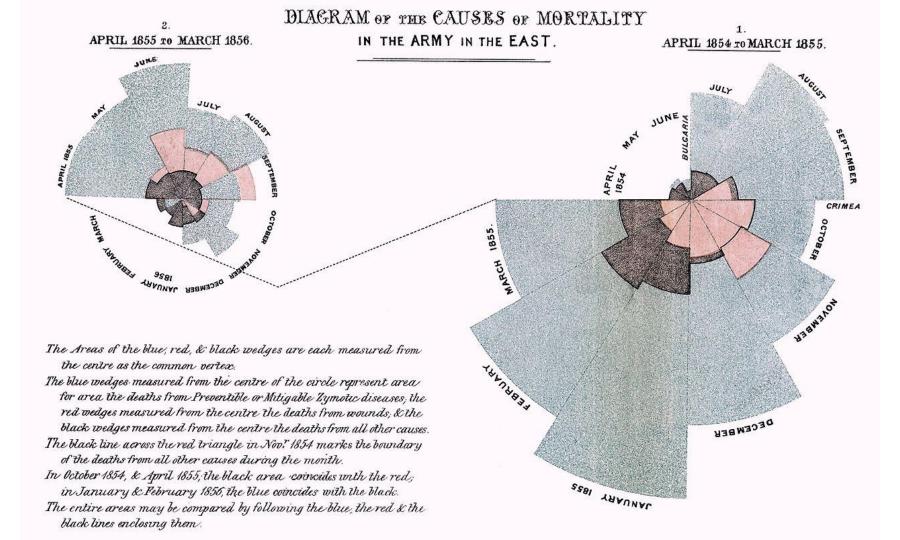
> Florence Nightingale, nurse and statistical pioneer 1820-1910

Crimean War 1853-56





Florence Nightingale



What can we learn?

- Be relevant know your audience
- Tell the story
- Visually interesting
- Data = people
- Be relevant on a personal level



24 June 2016

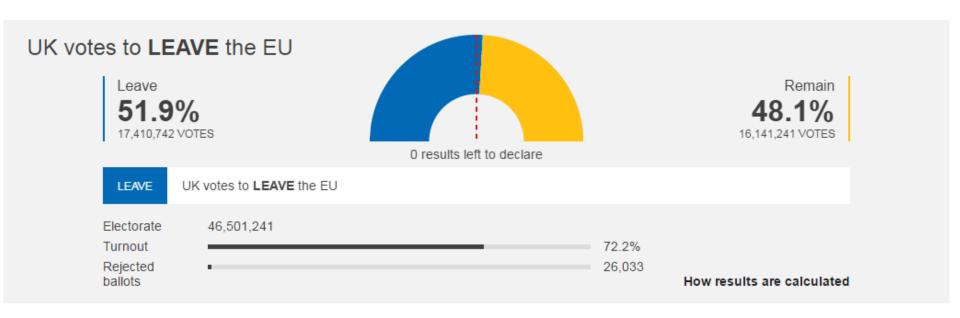


Brexit – the data story



Results



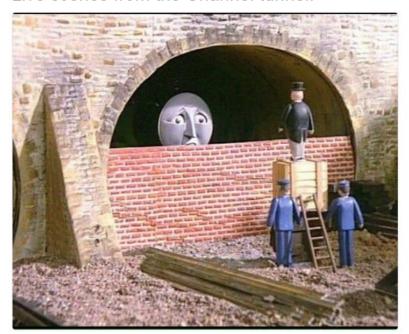








Live scenes from the Channel tunnel.



RETWEETS 9,862

10,114







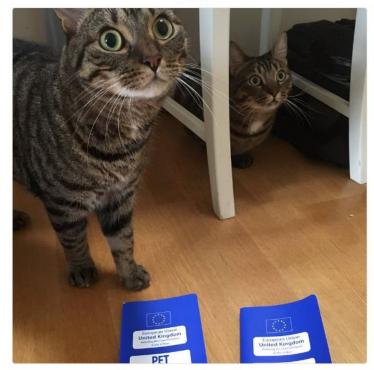






Following

How do I tell them?? #Brexit



47.555

58,376







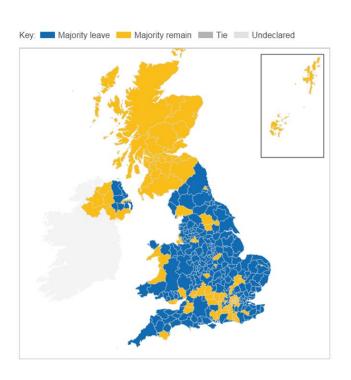




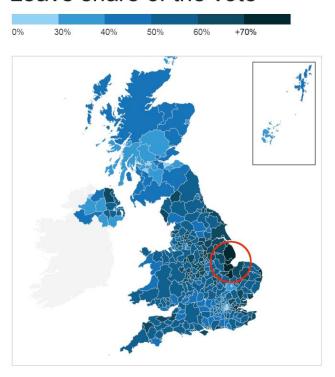


Mapping Brexit data

Main EU referendum results

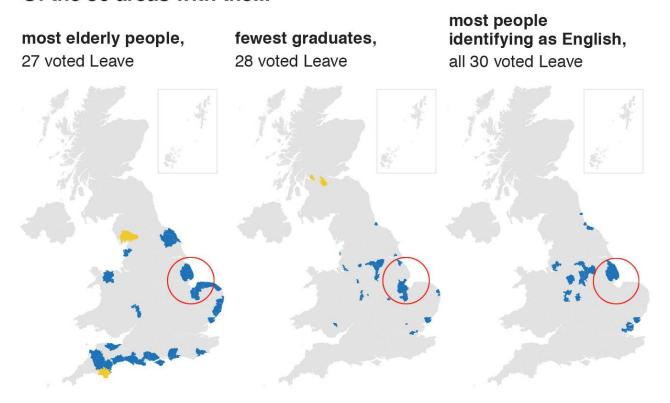


Leave share of the vote



Mapping Brexit data

Of the 30 areas with the...



Washington Post

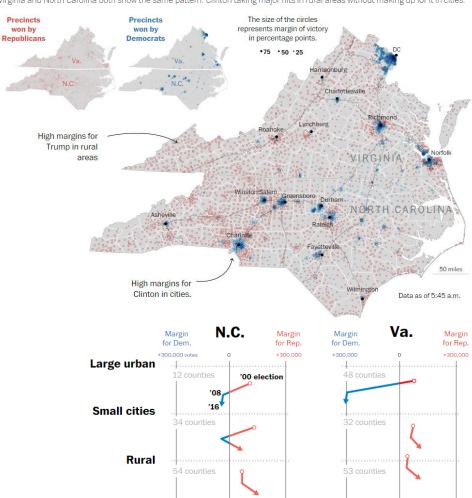
These former Obama strongholds sealed the election for Trump

By Kevin Uhrmacher, Kevin Schaul and Dan Keating
Nov. 9, 2016



Two swing states show why Clinton lost

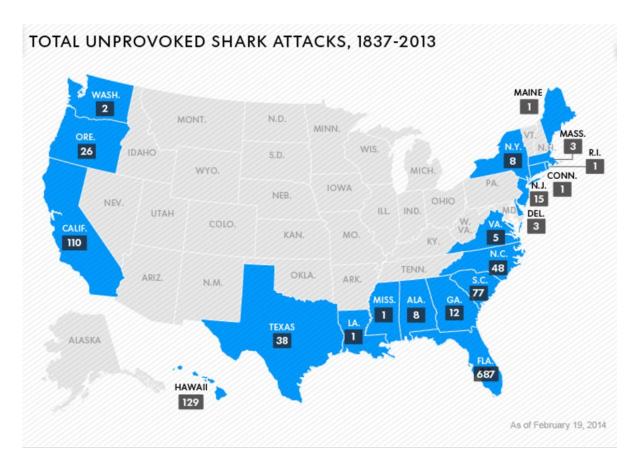
Virginia and North Carolina both show the same pattern: Clinton taking major hits in rural areas without making up for it in cities.



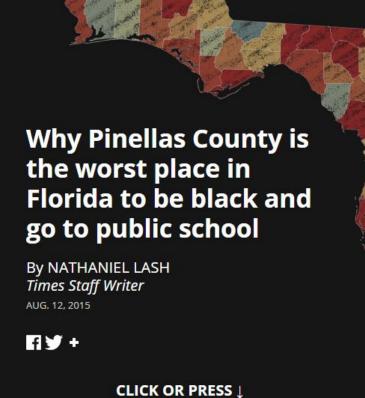
Maps are great because...

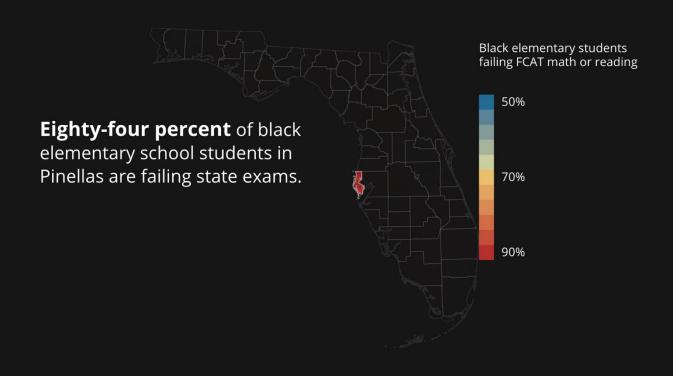
- They are familiar, users feel comfortable
- This means they can focus on the information
- Easy to spot patterns
- Bring in other data and knowledge
- "What is happening in my area?"

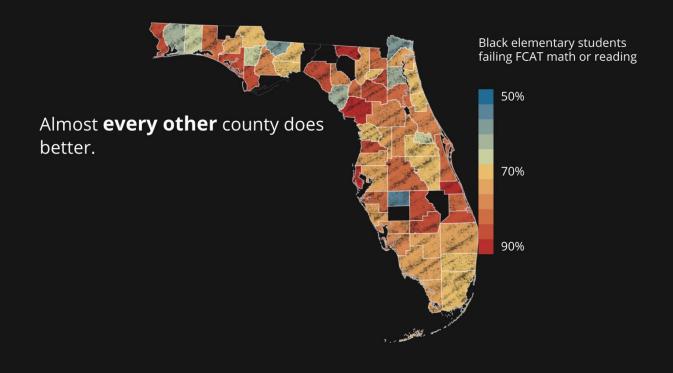
But not always

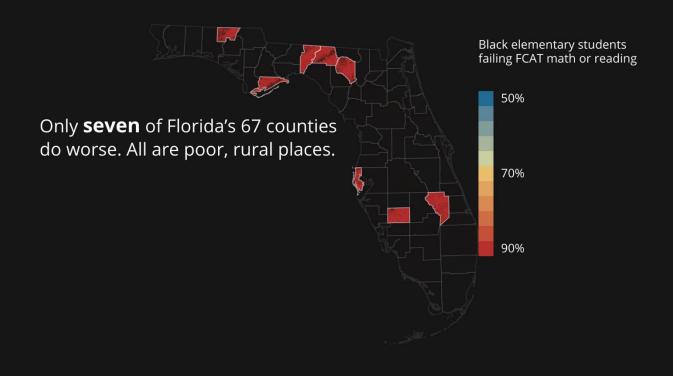


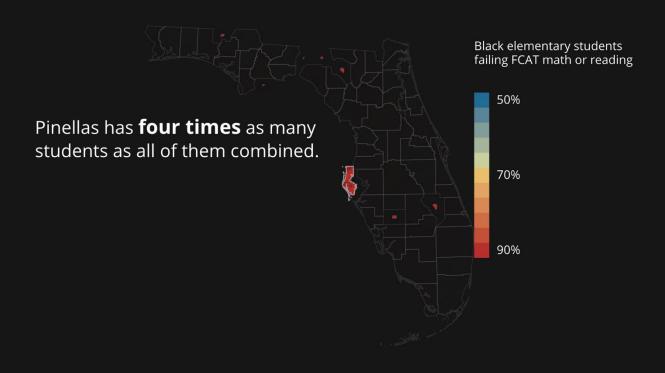






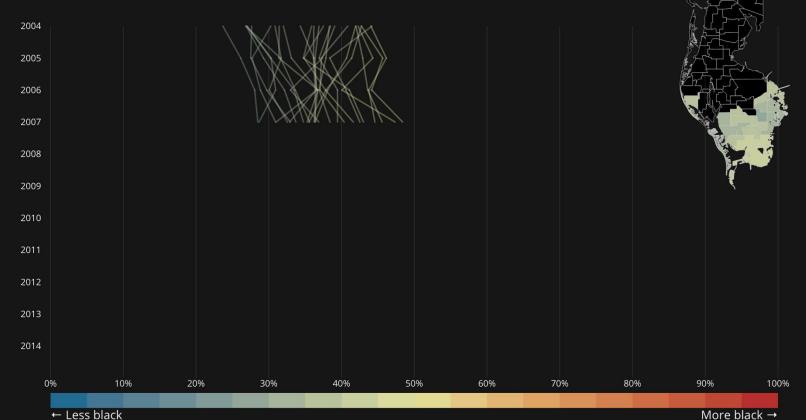


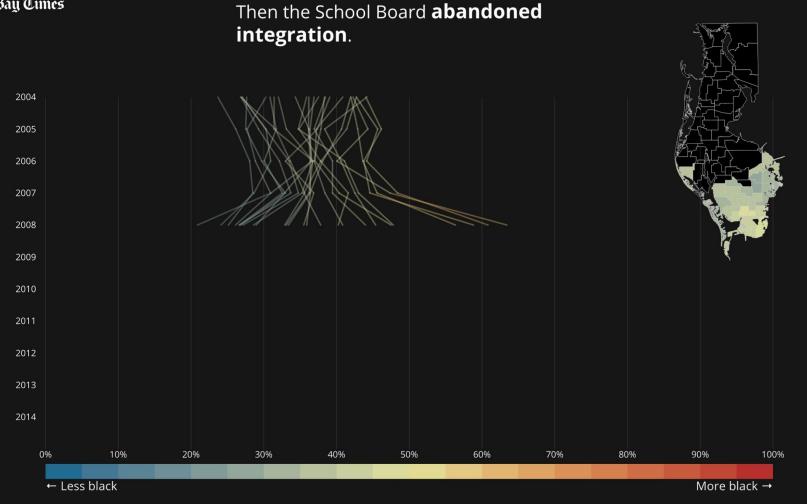


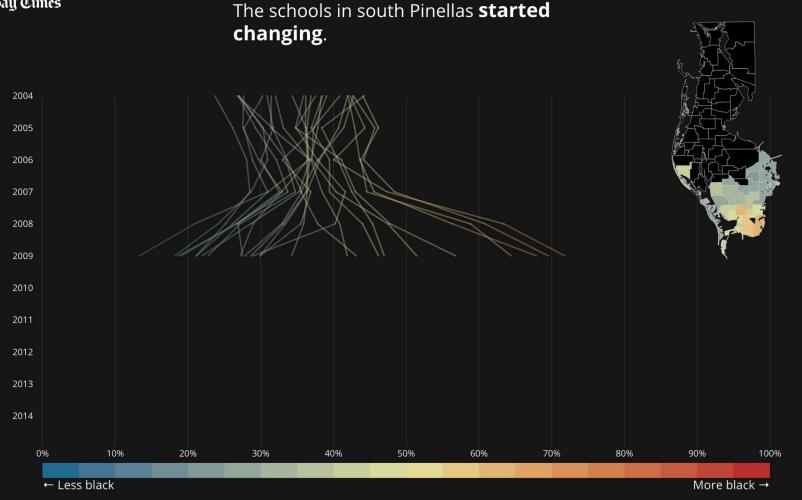




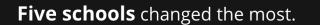
Pinellas was much better off in 2007. These lines show how **integrated** south county elementary schools used to be.

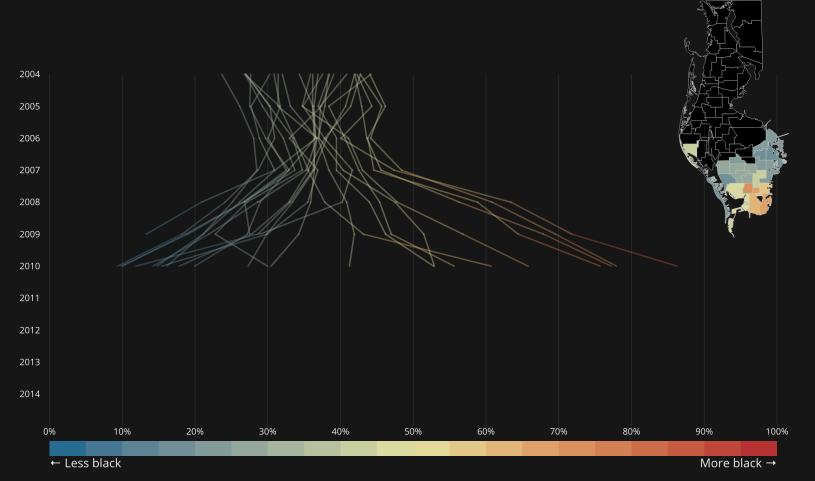




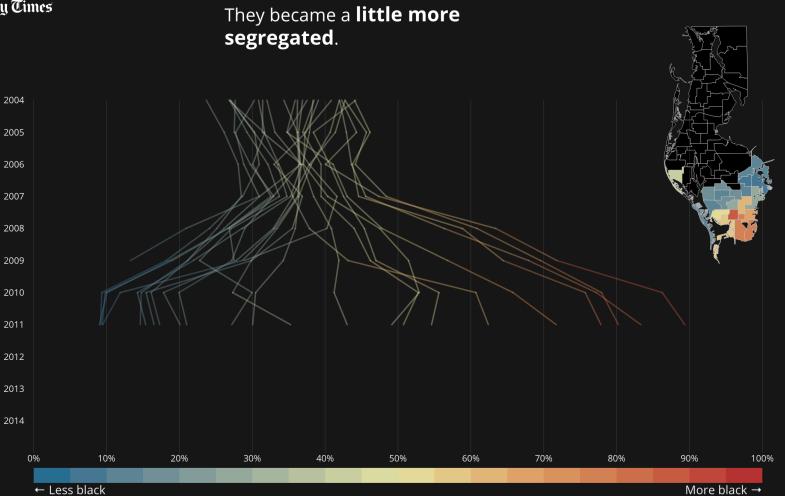








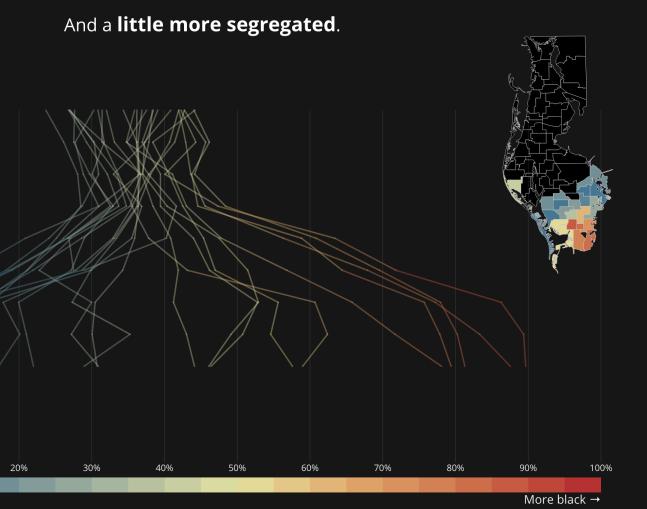




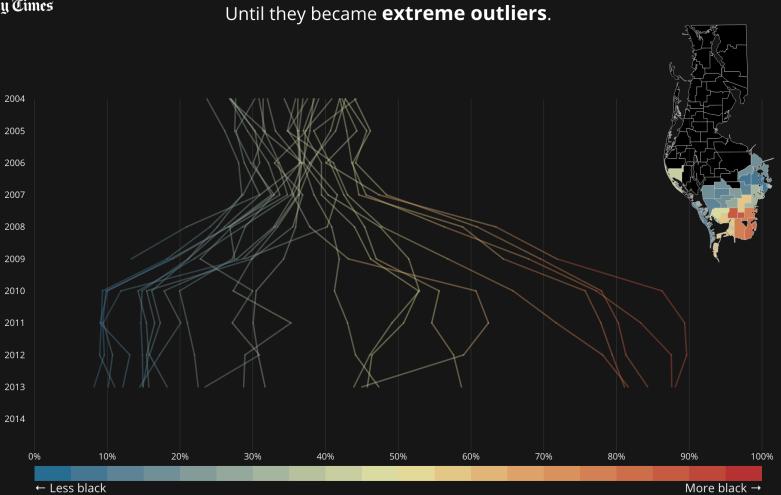


0%

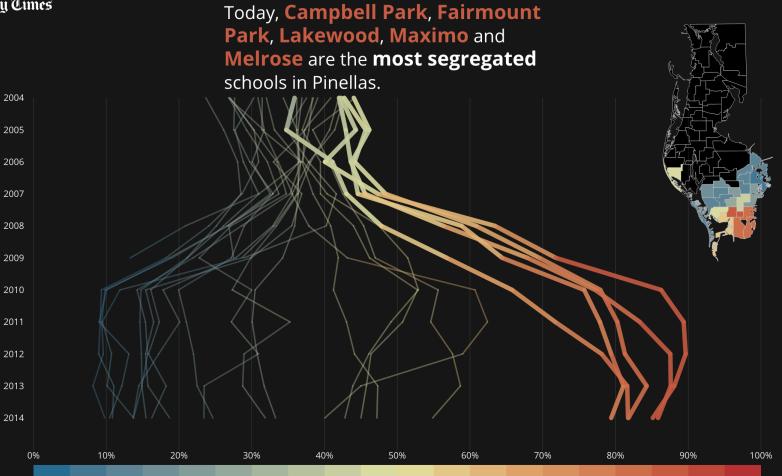
← Less black



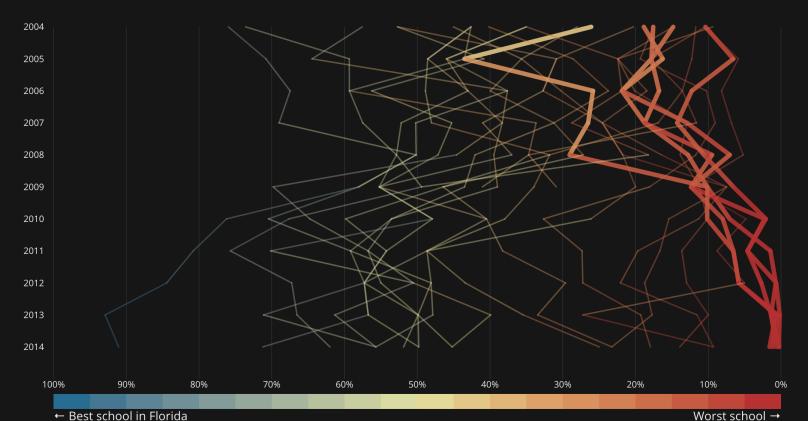




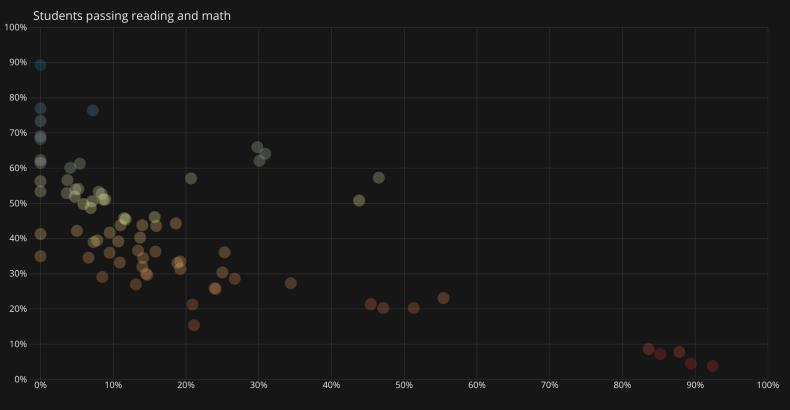




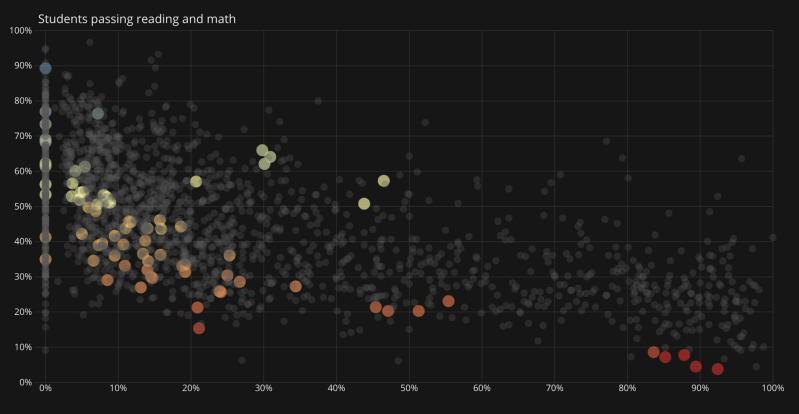
As the schools became **more separate**, they became **less equal**. Their test scores got steadily worse.



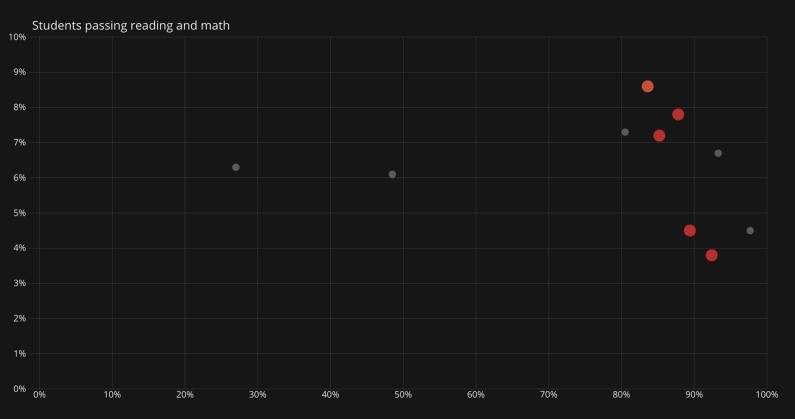
Today they score worse than any school in the **county**.



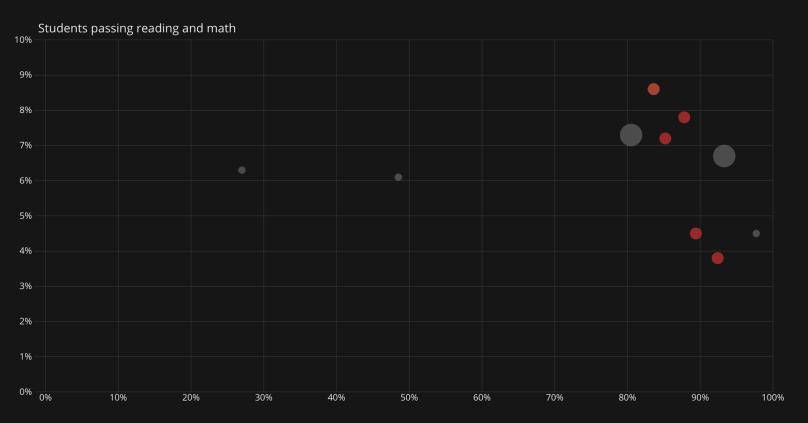
They score worse than almost any school in the **state**.



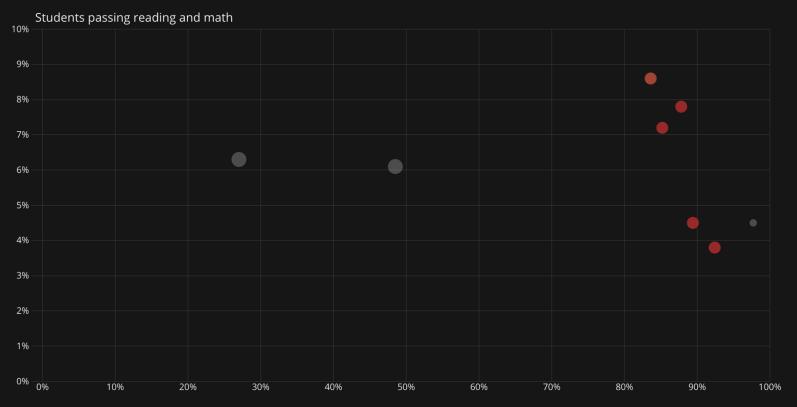
Ten Florida elementary schools have similar failure rates.



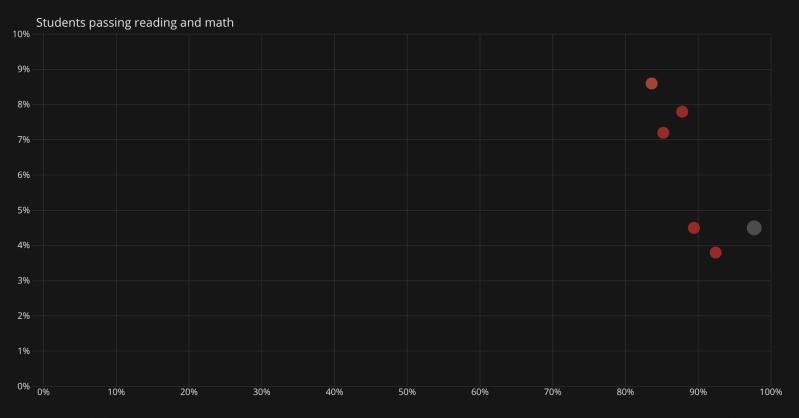
Take away privately run charter schools, and there are **eight**.



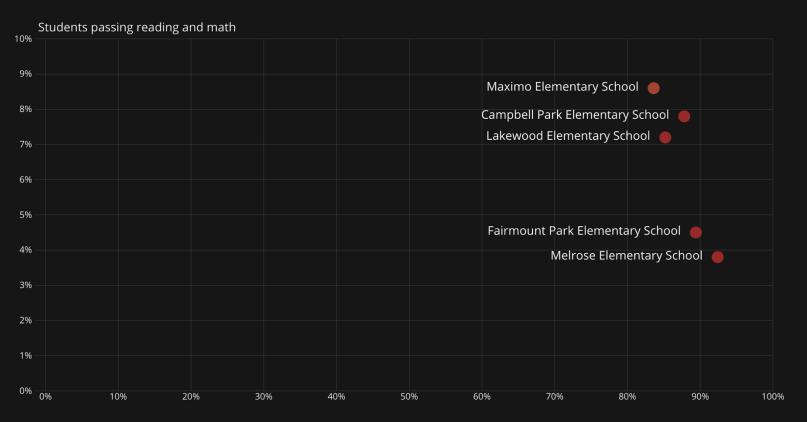
Take away schools for children with disabilities or behavior problems, and there are **six**.



Take away a nontraditional early learning center, and **look what's left**.

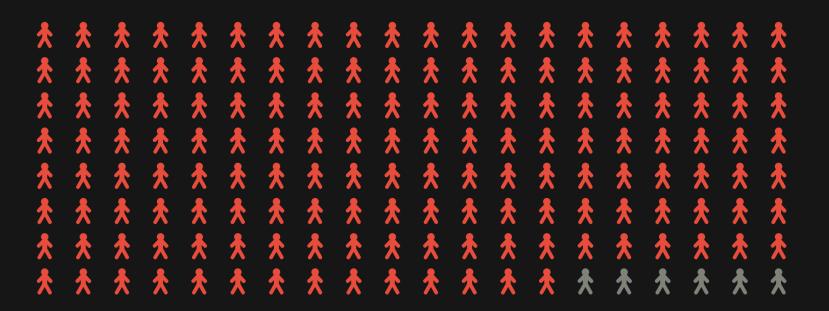


The **five** elementary schools in Pinellas County's black neighborhoods.



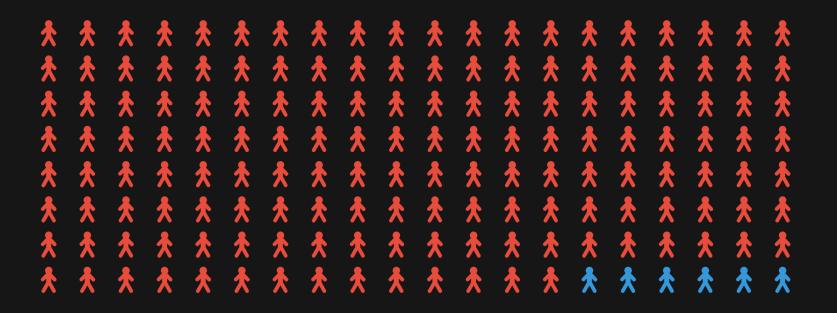
Melrose is the **worst-performing** school in Florida. In 2014, **160 children** there took state exams.







Only **six** passed both.





Who is responsible?

Read #FailureFactories

A Tampa Bay Times investigation

Sign up for emails about this investigation.



We will not use your email address for any other purpose



SOURCE: *Times* analysis of data from the Florida Department of Education and Pinellas County School District. Data is not available for student subgroups where fewer than 10 students took standardized tests. Pinellas school maps based on 2014 attendance boundaries.

Additional design by Martin Frobisher and Alexis N. Sanchez. Words by Michael LaForgia.



BBC World Service data project

- Jihadist attacks sadly reported every day but...
- How many people were killed?
- Who were they?
- Where?
- Who was responsible?
- Method used



☆ :

Explore the worst-affected countries in detail

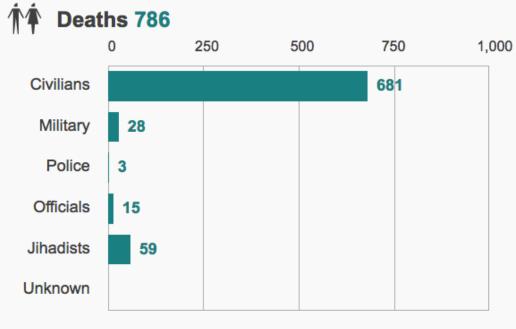




Groups killing the most people

The most deadly countries

Nigeria \$



Deaths by group

100% Boko Haram

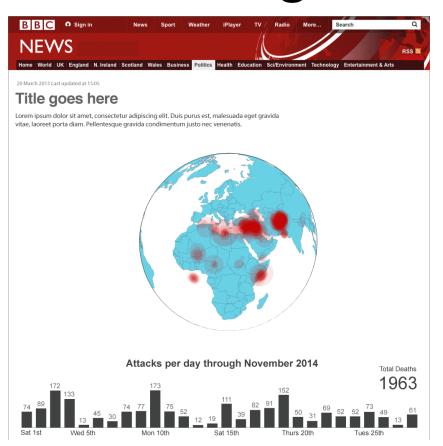
Most frequent types of attack

37% Shooting 22% Suicide bomb

15%

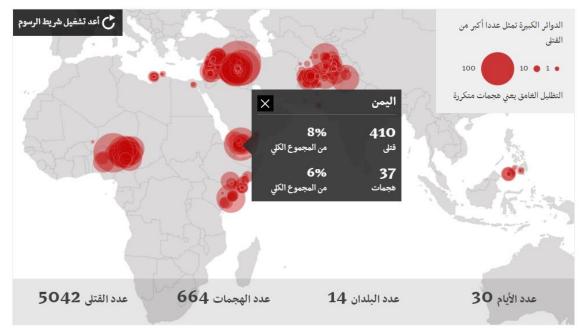
IED

First designs



Languages

- Arabic
- Persian
- Urdu
- Hausa
- Pashto



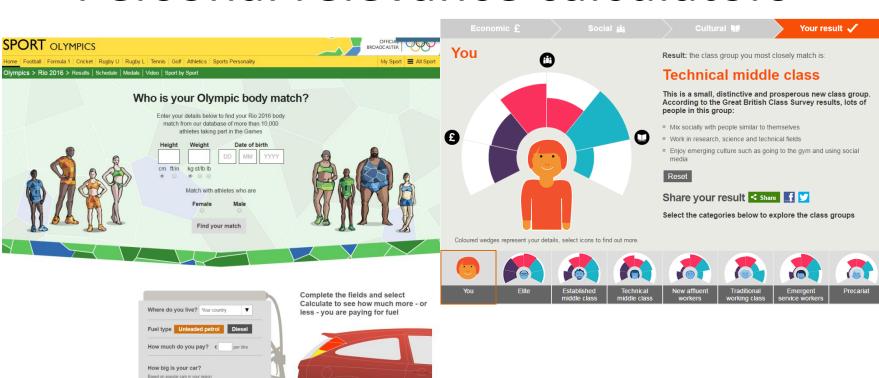
▲ اكتشف أكثر البلدان تضررا بالتفصيل







Personal relevance calculators



Large

Fuel tank: 55 litres

Calculate

NHS Winter

This week's figures for England:







1) 89.0% **(**1) 92.8% **(**1)



target for patients seen in 4 hours at A&E

patients seen in 4 hours at patients seen in 4 hours at major A&E hospitals

all A&F units

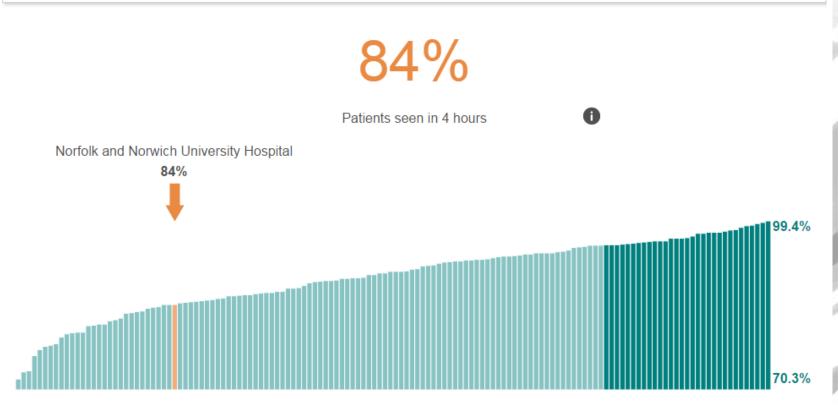
The additional pressures of cold weather, norovirus and flu have an impact on all A&E departments across the UK. This tracker allows you to find out how the NHS is doing where you live.

England is the only place to publish weekly A&E data every week. Elsewhere it is published on a monthly or quarterly basis. To see how the health service is performing please submit your postcode below.

See how trusts running A&Es near you are doing: Enter your postcode Go

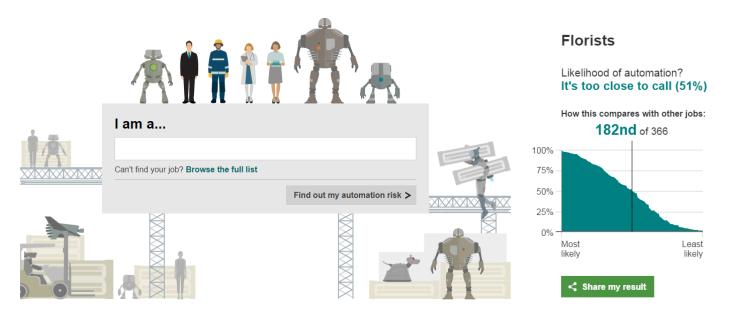
This week at Norfolk and Norwich University Hospital

Data for Norfolk And Norwich University Hospitals NHS Foundation Trust



109 major A&E trusts missing 95% target 31 major A&E trusts meeting 95% target

Will a robot take your job?



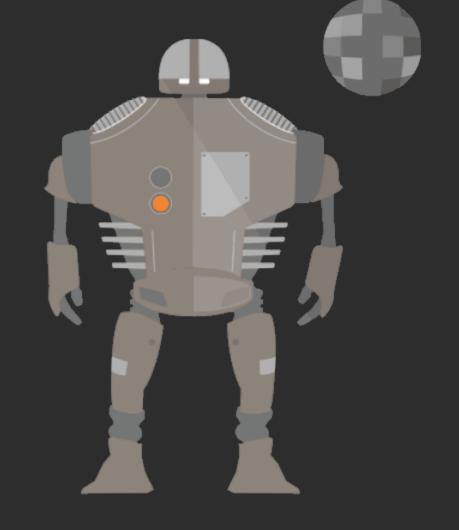


Engaging the audience



It is estimated that cleaners have a 57% chance of their job being automated in the next 20 years.

It is estimated that dancers have a 13% chance of their job being automated in the next 20 years.





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Politics Tech Science

Health

Education

Entertainment & Arts

Video & Audio

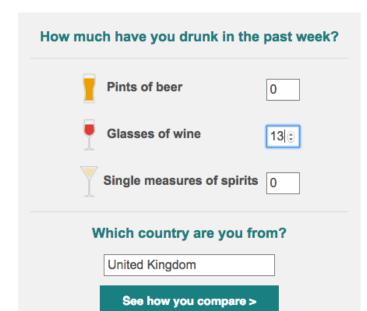
More -

Health

Booze calculator: What's your drinking nationality?

© 8 January 2016 | Health

How does your drinking measure up to the average in countries around the world? Find out below if you are similar to a boozy Belarusian or a teetotal Kuwaiti.



If you drank like this every week, in a year you would consume:

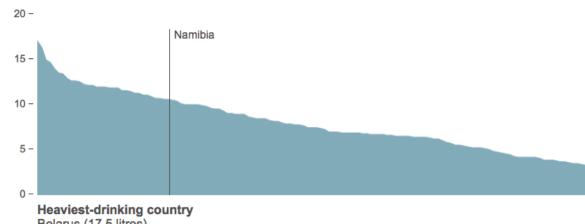


Based on these proportions and quantities:

You drink like you're from Namibia, which is the 33rd heaviest-drinking country in the world.

≺ Share

Litres of pure alcohol consumed per person per year, by country



Lightest-drinking country

In summary

- Relevance why audience interested?
- Story telling lead through the data or show how to explore
- Visually interesting clear, engaging, playful if appropriate
- Data = people
- Show users where they fit in

