Design for Data Journalism

WHAT TO DO & WHAT NOT TO DO



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Propublica

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Why does design matter to you?



Don't design for likes

Advertisers manipulate, journalists inform

When good design goes bad: your power as a designer

A lot of examples





Don't design for likes

Don't design for likes/Unnecessary 3D

DON'T DESIGN FOR LIKES Unnecessary 3D

Anatomy of a Winning TED Talk



Sophisticated Visual Aids

We're not sure who puts the D in TED-most of the best presentations favor tepid PowerPoint slide shows (sorry, Brené Brown), Pictionary-quality drawings (really, Simon Sinek?), or no props at all.



Opening Joke

Remember the one about the shoe salesmen who went to Africa in the 1900s? That's how Benjamin Zander opened his talk-which turned out to be about classical music.



5%

Spontaneous Moment

Don't overprepare. Tease the guy in the front row ("You could light up a village with this guy's eyes"). Commend the stagehand who handles the human brain you brought.



5%

Statement of Utter Certainty

People come for answers-give 'em what they want, as Shawn Achor did: "By training your brain ... we can reverse the formula for happiness and success."



12%

Snappy Refrain

The TED equivalent of "I have a dream." Example: "People don't buy what you do; they buy why you do it." Repeat 7x.



23%

Personal Failure

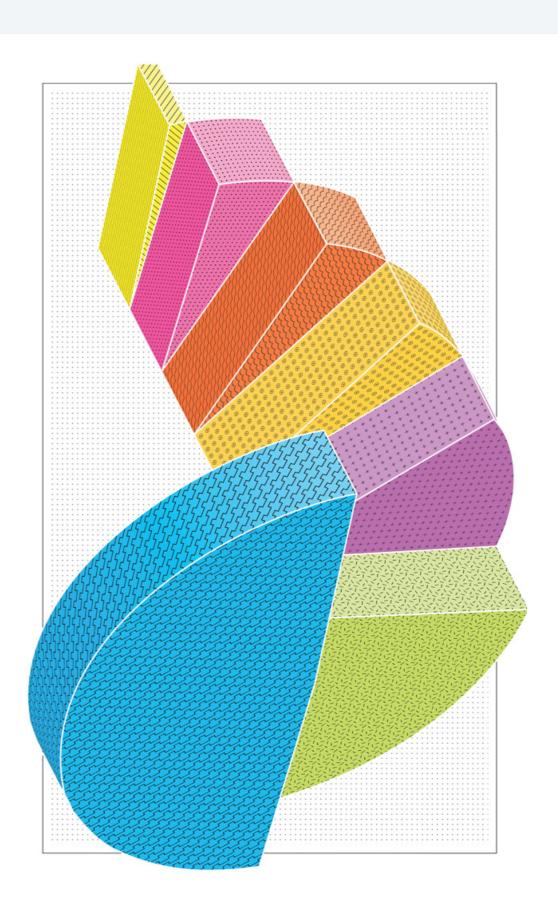
Be relatable. We want to know about that nervous breakdown. Or at least the time you didn't fit in at summer camp.



49%

Contrarian Thesis

Wait a sec-we should be playing more videogames? The more choices we have, the worse off we are? TED is where conventional wisdom goes



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3D: Completely uncalled for

1270

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Source: Wired Magazine

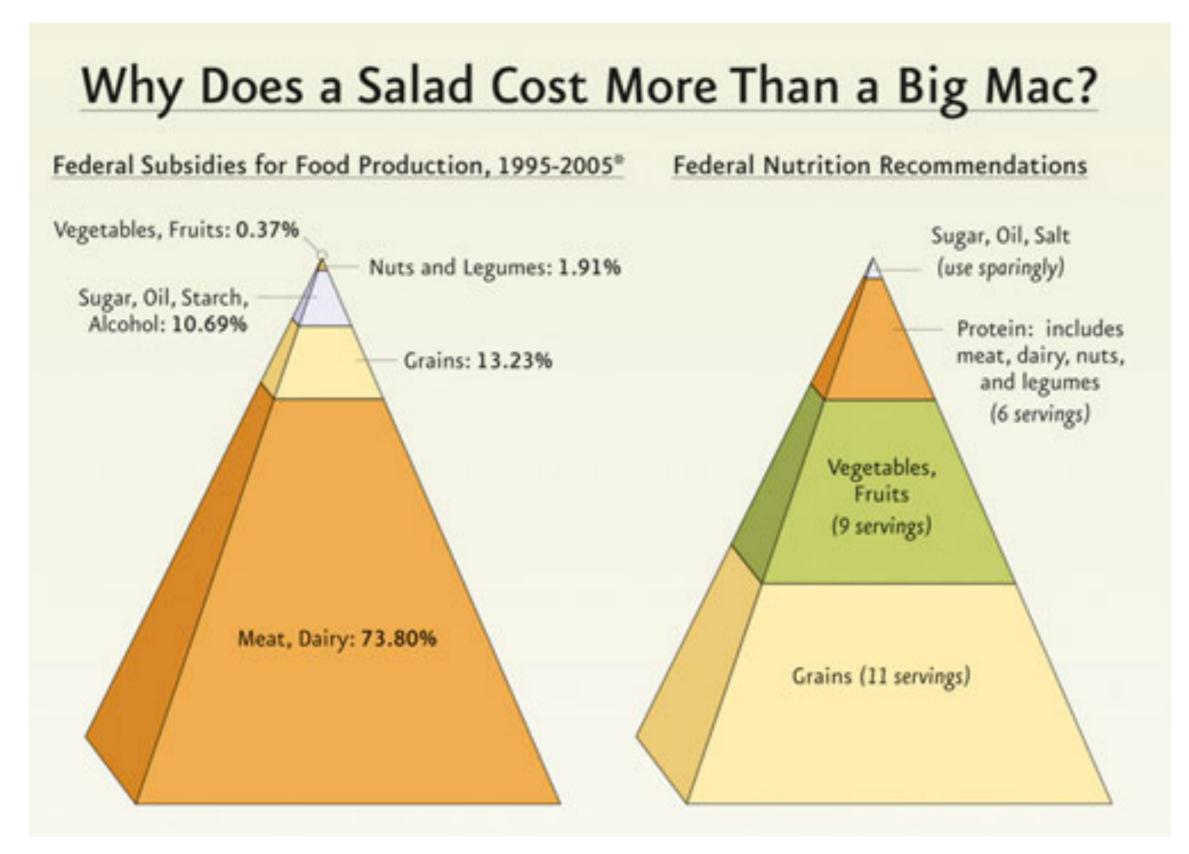
Don't design for likes/Breaking rules of perception



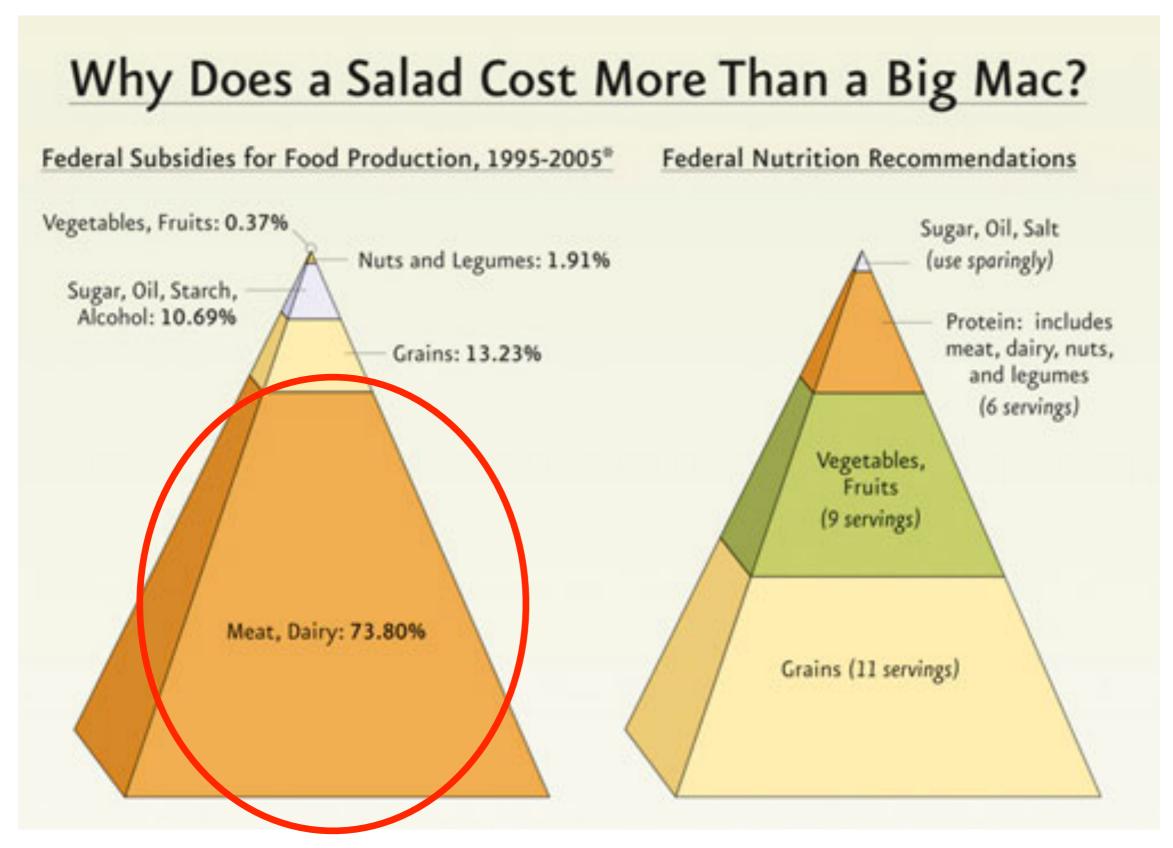




Source: Gallup



Source: Physicians Committee for Responsible Medicine



Source: Physicians Committee for Responsible Medicine

Don't design for likes/A good example

A good example

An Outlier for Arrest Warrants

Data from municipal courts across Missouri show that in 2013, the city of Ferguson had the highest number of warrants issued in the state relative to its size. Arrest warrants are often served by municipal courts when someone fails to appear in court to pay fines for a traffic or other violation, like shoplifting, assault or disturbance of peace.

The high rate could reflect more crime as well as heavier prosecution, and it could be indicative of a fraught relationship between law enforcement and citizens. Brendan Roediger, an assistant professor at Saint Louis University School of Law and supervisor of the school's Civil Litigation Clinic, said that resentment toward the police in Ferguson "is primarily formed around these interactions and not around investigations of serious crimes."

FERGUSON -1,500Ferguson issued more than 1,500 per 1,000 people in 2013. Numbers include people being served more than one warrant in a year or nonresidents being -1.000served for a violation within the city. **JENNINGS** ST. ANN **HAZELWOOD** - 500 ST. LOUIS KANSAS CITY

Warrants Issued Per 1,000 People in 2013

Each bar represents a Missouri city larger than 10,000 people

SPRINGFIELD

Darker bars are cities in St. Louis County

COLUMBIA

Source: The New York Times

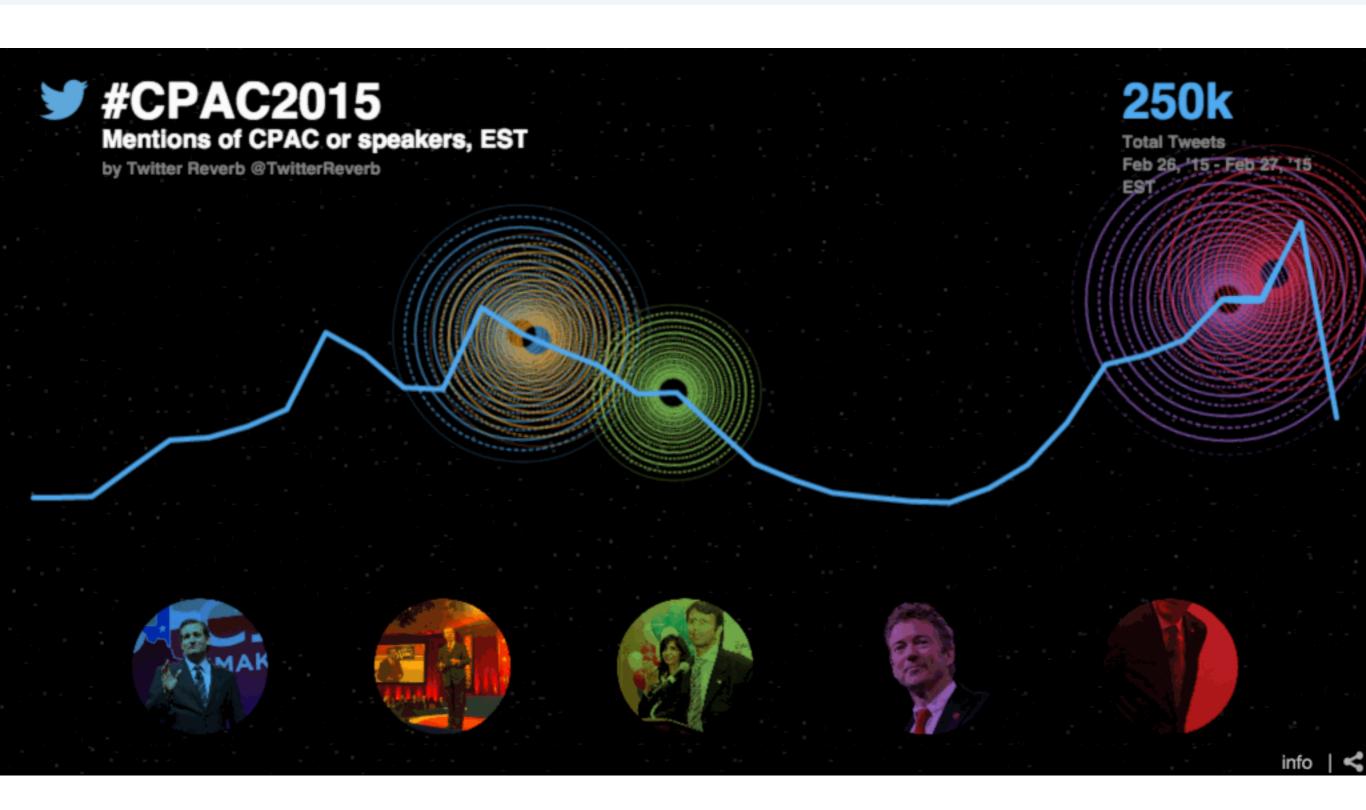




Don't design for likes/Design complexity reflects data complexity



Design complexity should reflect data complexity





Design complexity should reflect data complexity



Source: Twitter

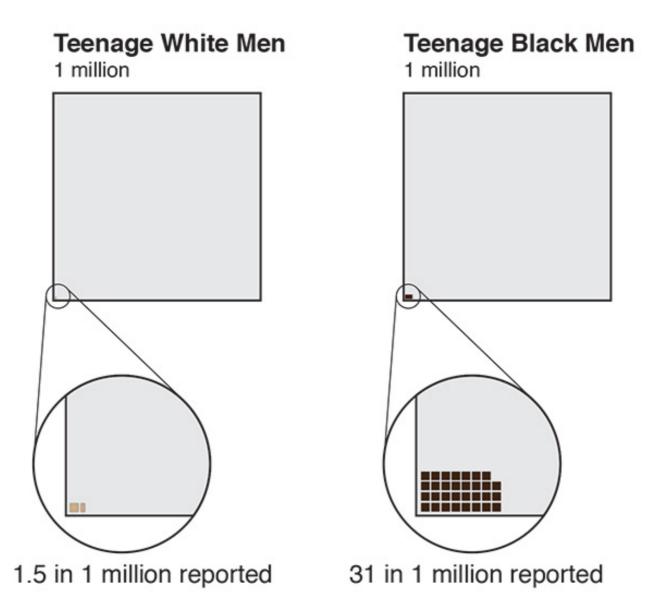
A good example



Source: The New York Times



A good example



Reported killings by police during 2010-2012

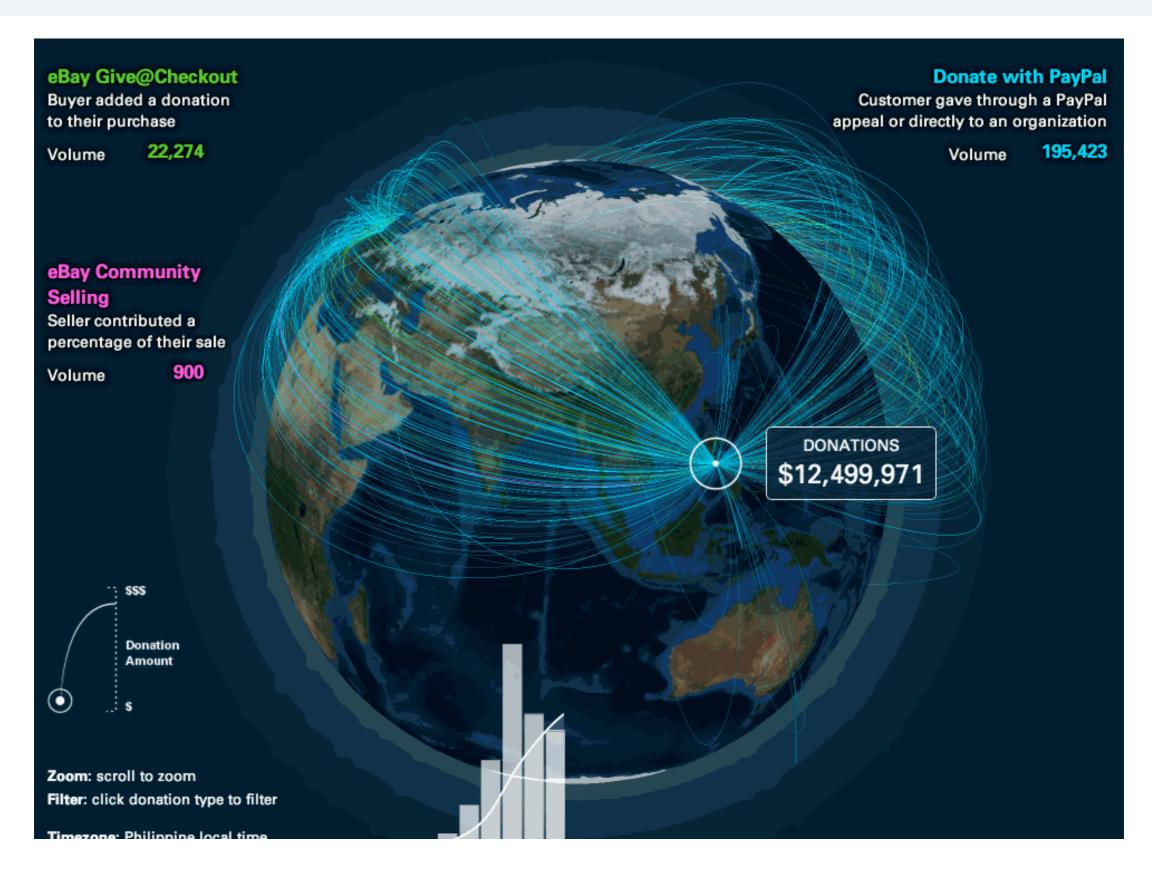
21 times as likely for black vs. white teenage men

Source: Propublica



Don't design for likes/Unnecessary animation

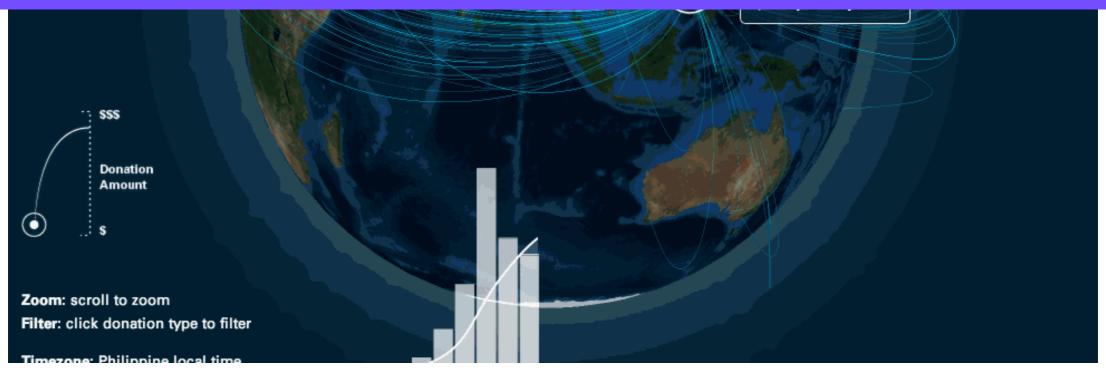
Unnecessary animation



Unnecessary animation



Way too much globe

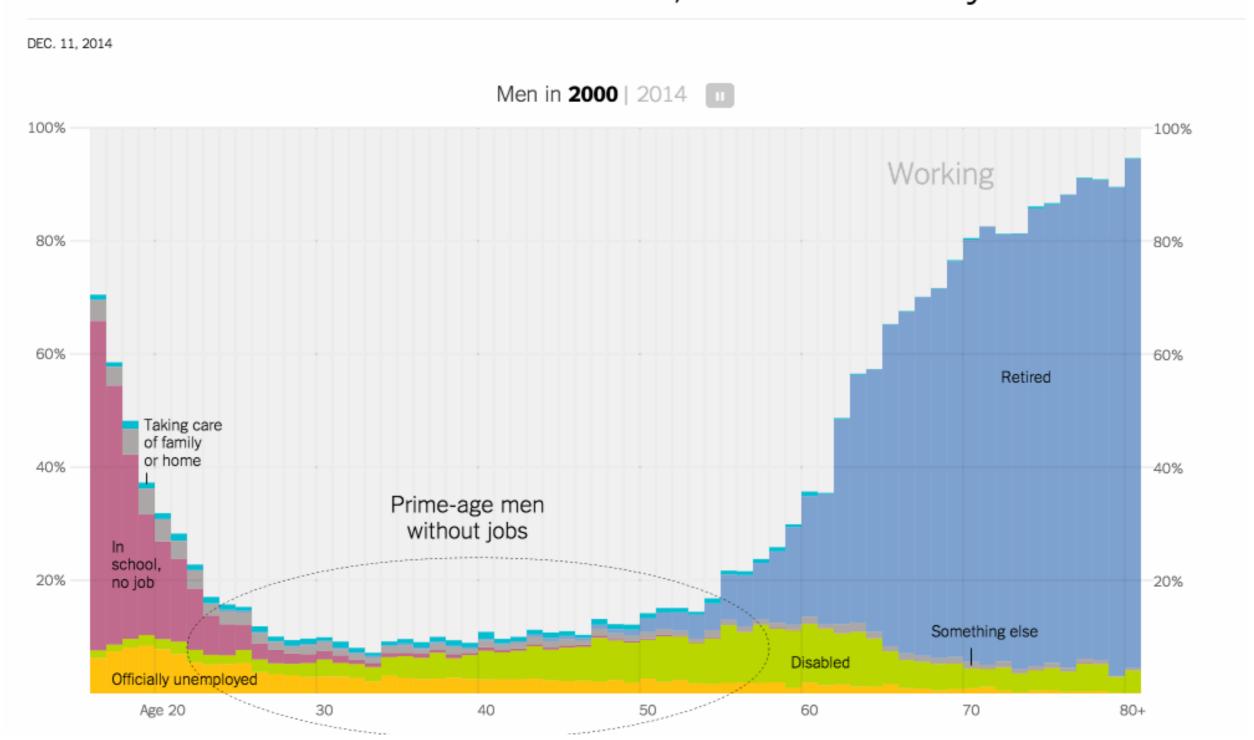


Source: Ebay / Pitch Interactive

Don't design for likes/A good example

A good example

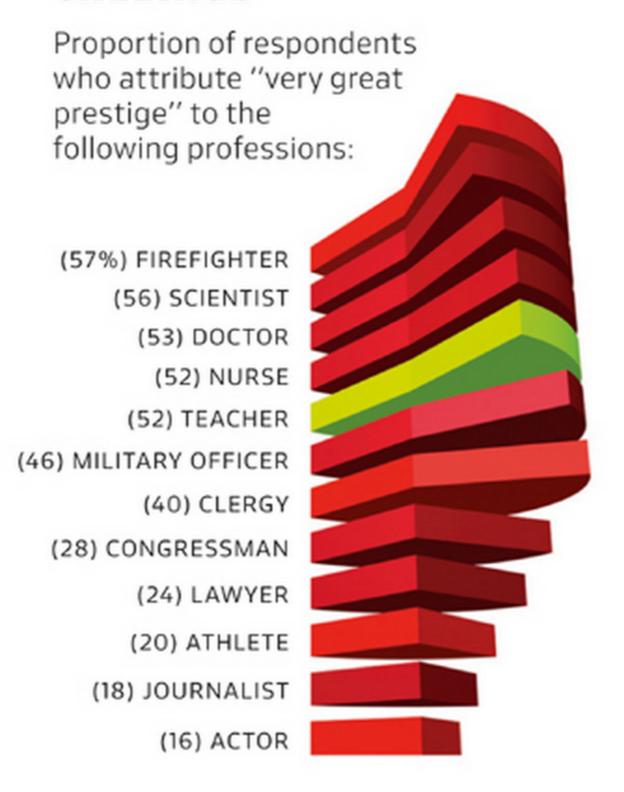
The Rise of Men Who Don't Work, and What They Do Instead



Source: NBC Nightly News



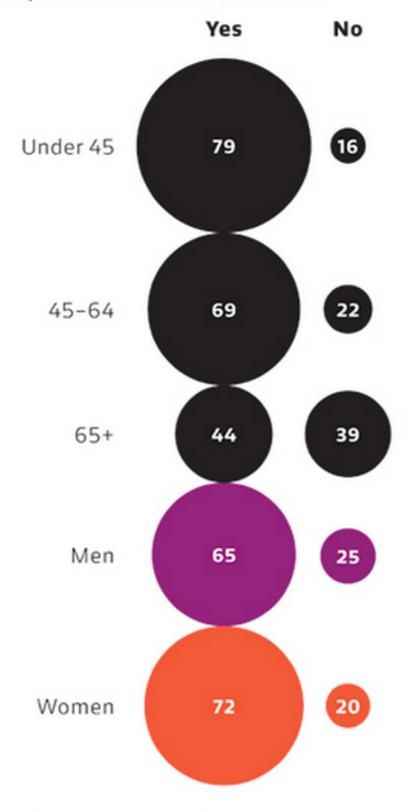
CALLINGS



Source: The Harris Poll, July 2008
Chart by ERIK DE GRAAFF ArtEZ Academy
of Visual Arts, the Netherlands

MRS. PRESIDENT

Percentage of respondents who say it is likely that a woman will be president in their lifetime.



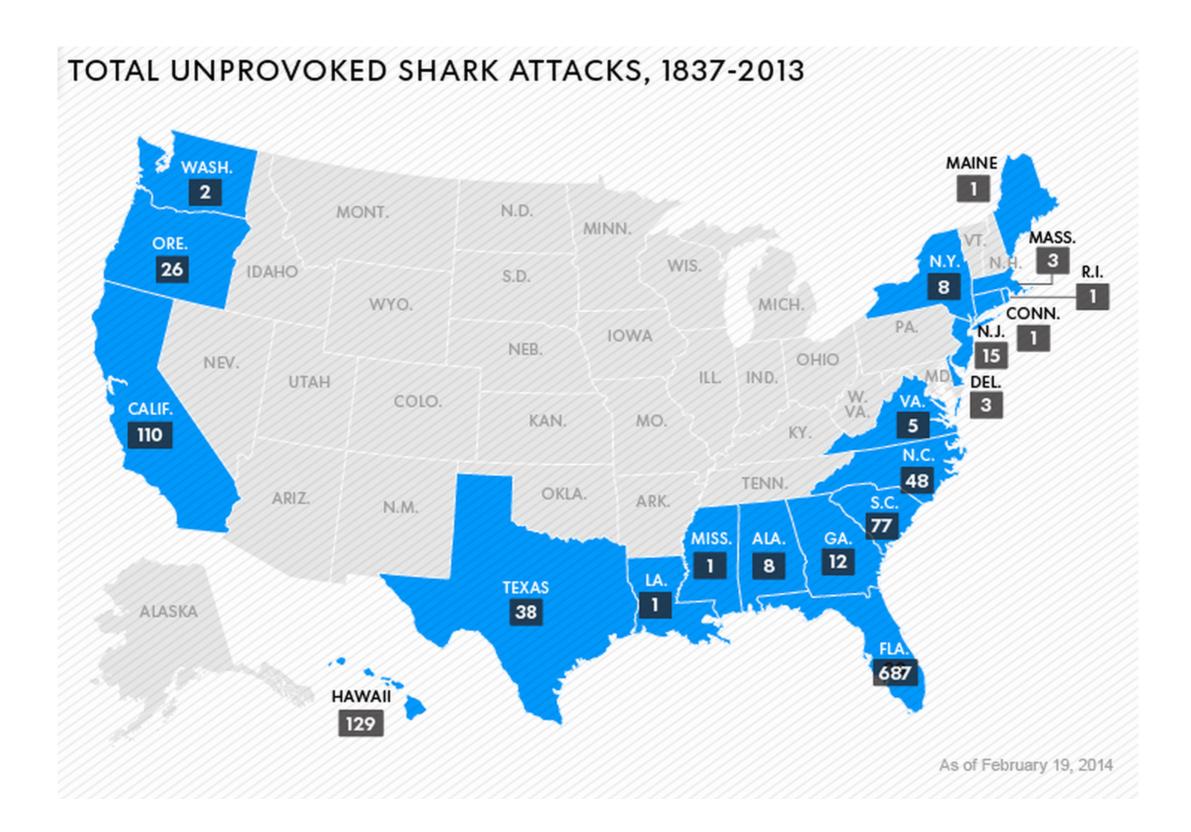
Source: CBS News, June 2008

Snow depth in Boston 18:00 GMT (13:00 EST)

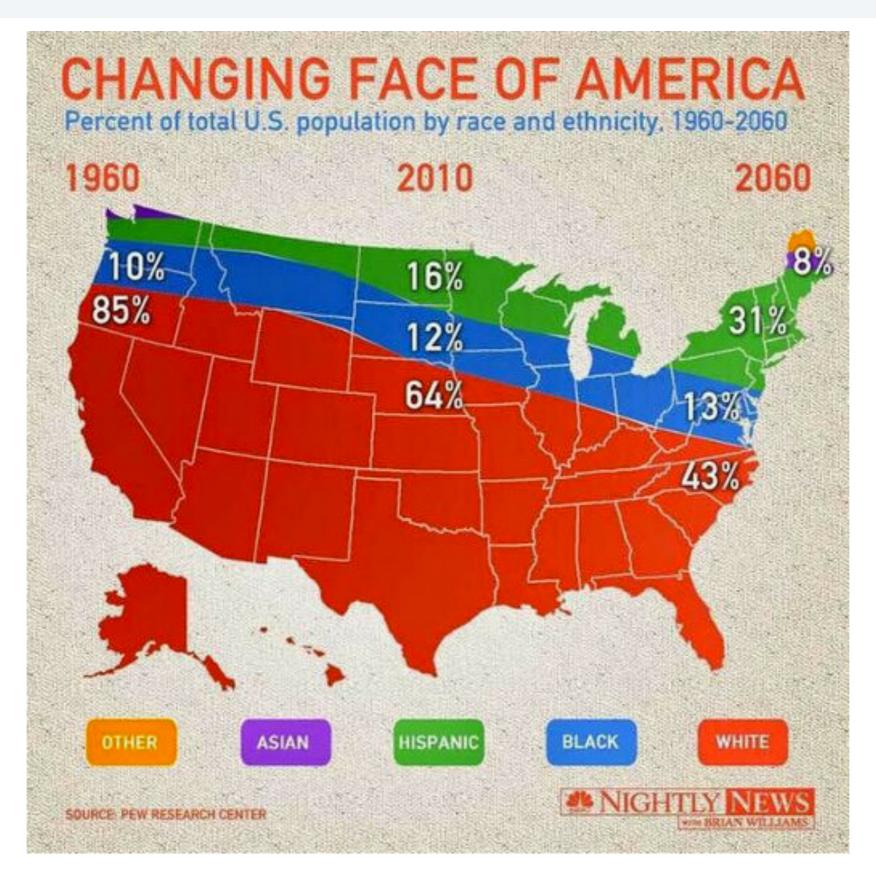


Don't design for likes/Unnecessary maps

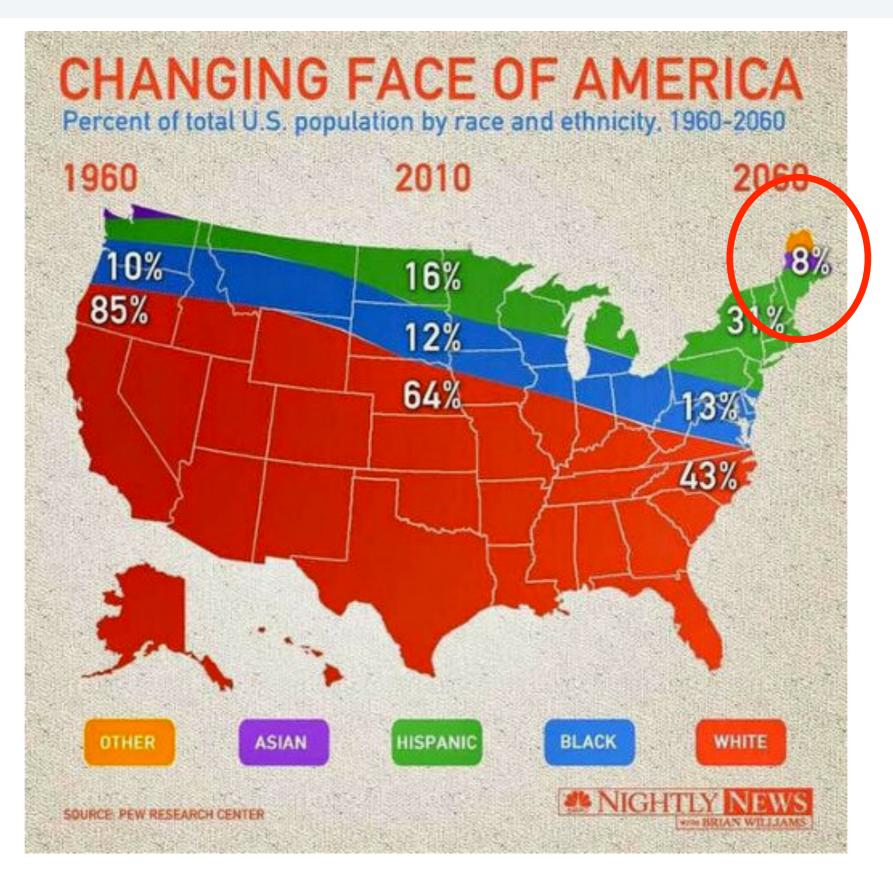
1 DON'T DESIGN FOR LIKES Unnecessary maps



Source: USA Today



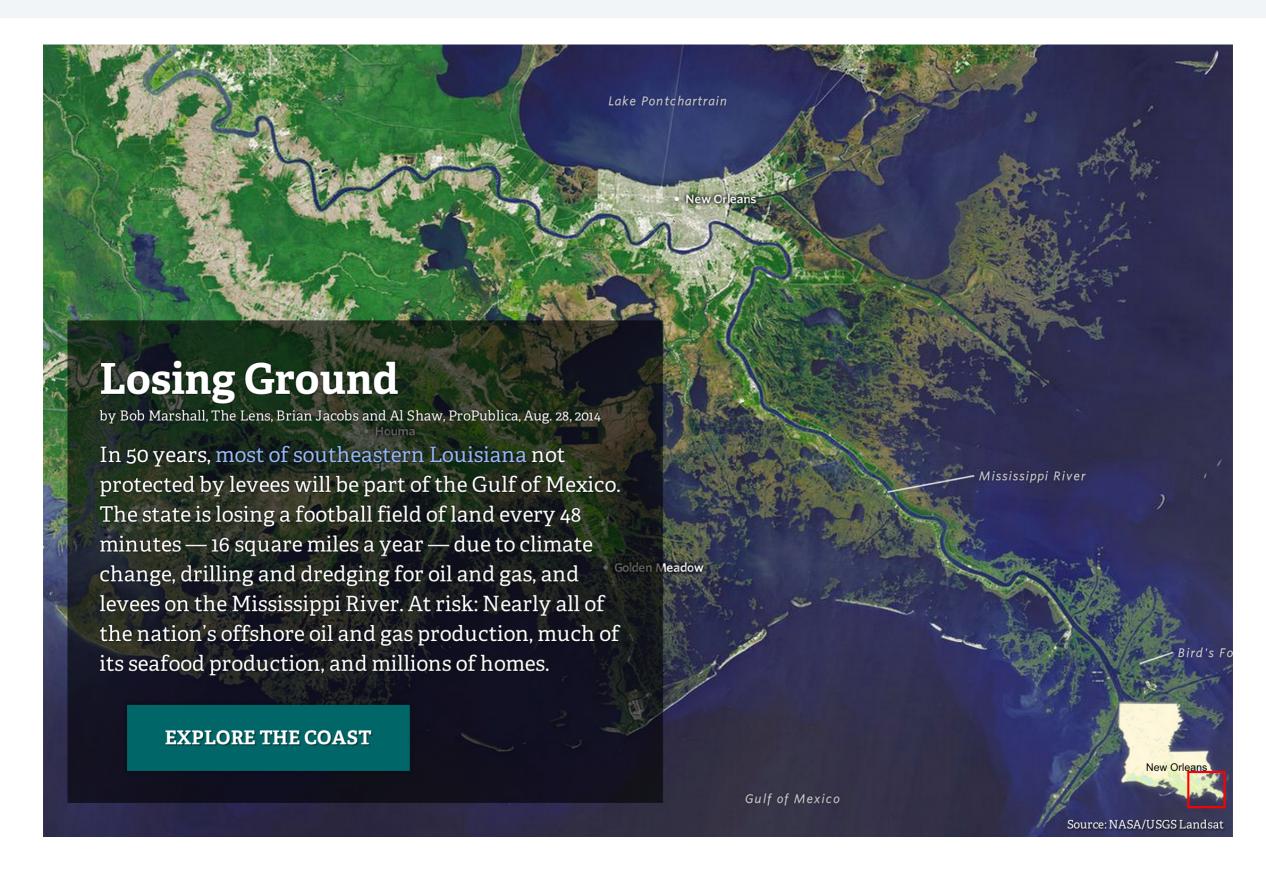
Source: NBC Nightly News



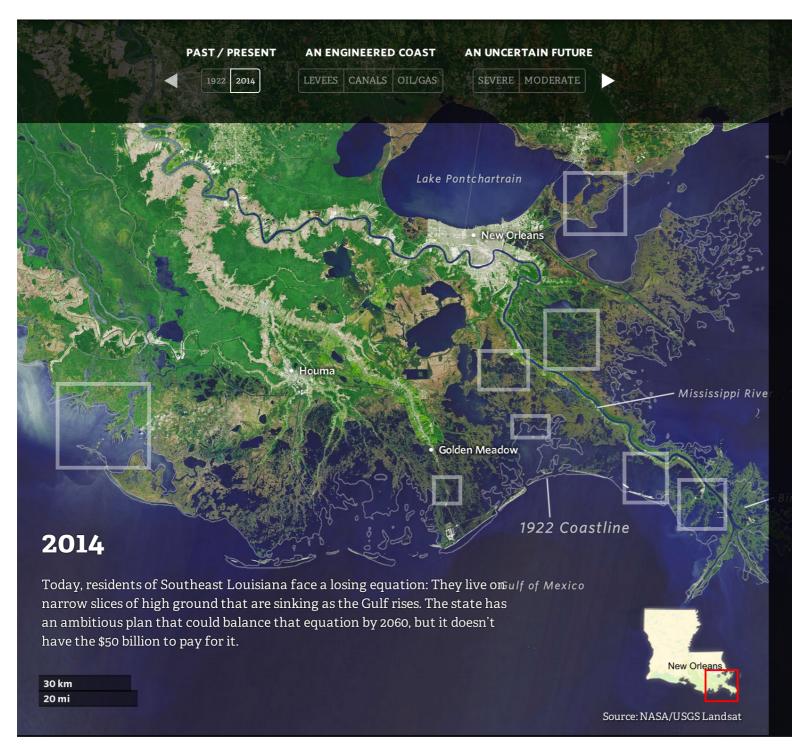
Source: NBC Nightly News

Don't design for likes/Two good examples





Source: Propublica



Louisiana is drowning, quickly.

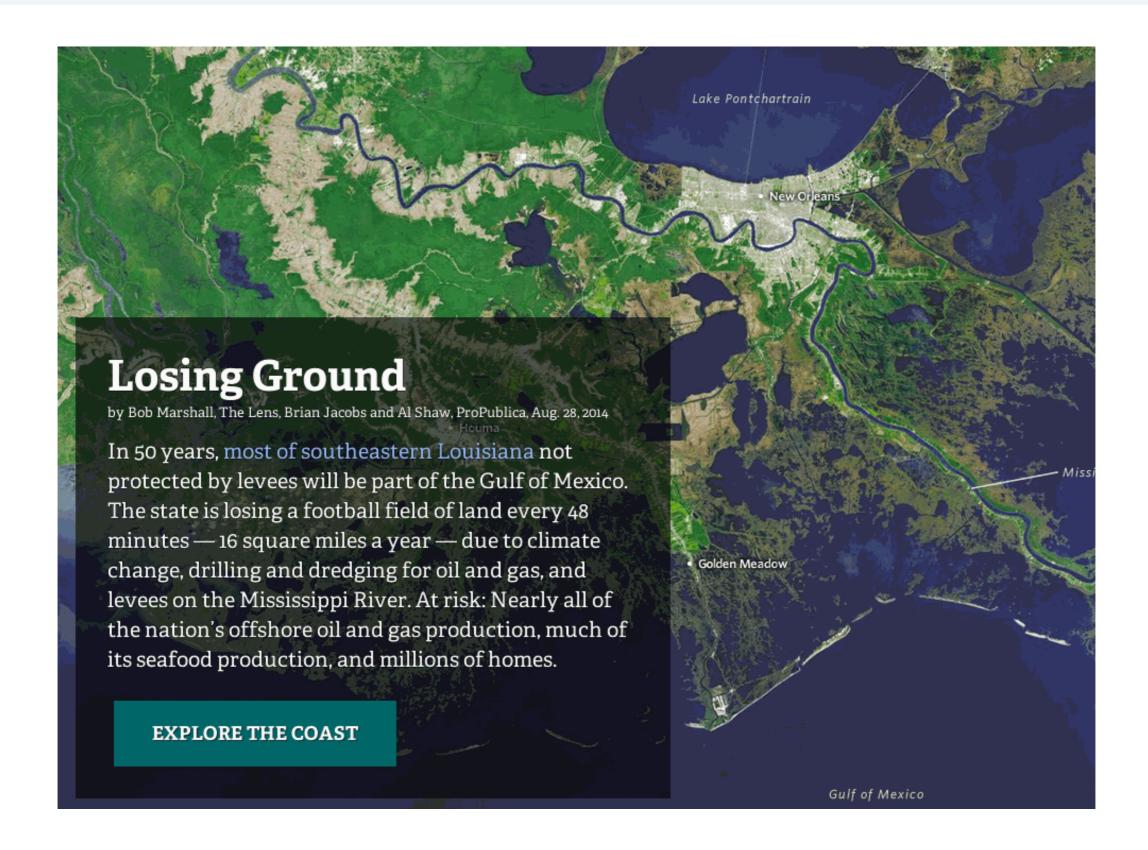
In just 80 years, some 2,000 square miles of its coastal landscape have turned to open water, wiping places off maps, bringing the Gulf of Mexico to the back door of New Orleans and posing a lethal threat to an energy and shipping corridor vital to the nation's economy.

And it's going to get worse, even quicker.

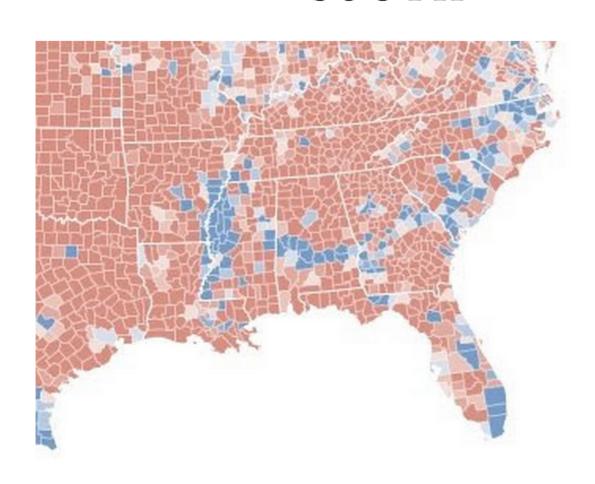
Scientists now say one of the greatest environmental and economic disasters in the nation's history is rushing toward a catastrophic conclusion over the next 50 years, so far unabated and largely unnoticed.

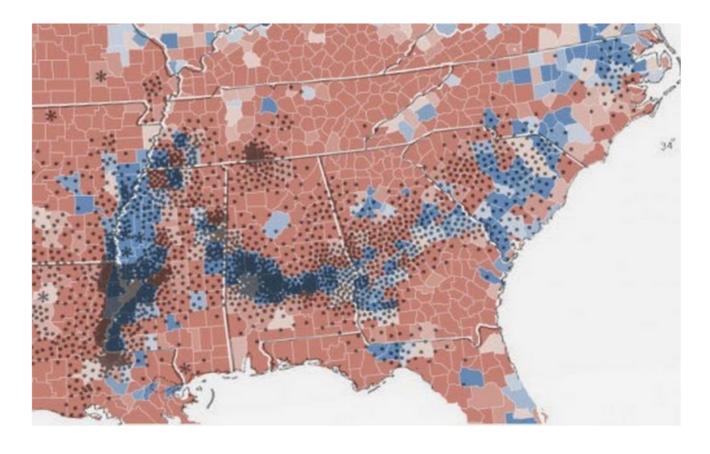


At the current rates that the sea is rising and land is sinking, National Oceanic and Atmospheric Administration scientists say by 2100 the Gulf of Mexico could rise as much as 4.3 feet across this landscape, which has an average elevation of about 3 feet. If that happens, everything outside the protective levees — most of Southeast Louisiana — would be



THE BLACK BELT: HOW SOIL
TYPES DETERMINED THE
2008 ELECTION IN THE DEEP
SOUTH





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Advertisers manipulate, journalists inform

Advertisers manipulate, journalists inform/ Emotional design





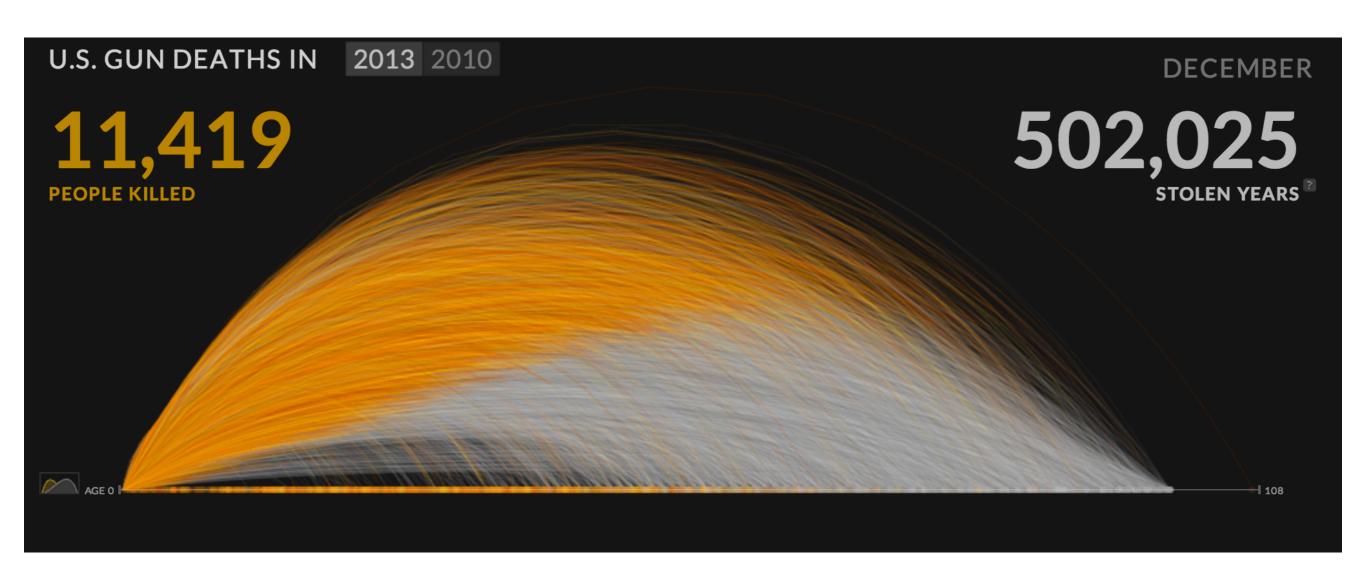




Emotional design



Emotional Design



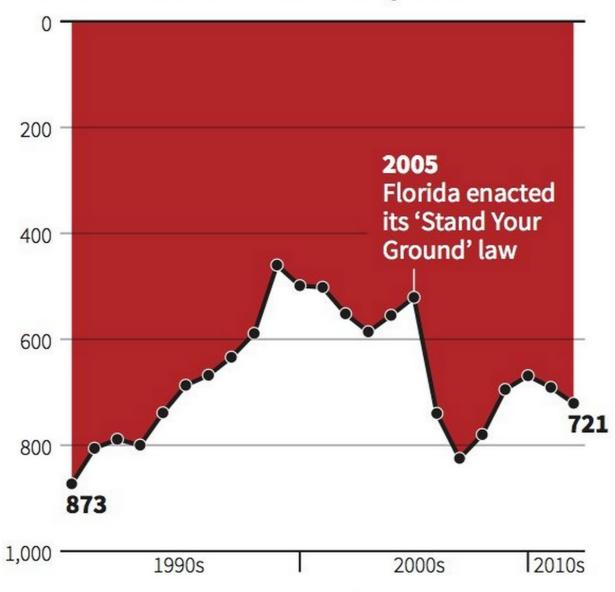
Emotional Design



Emotional design

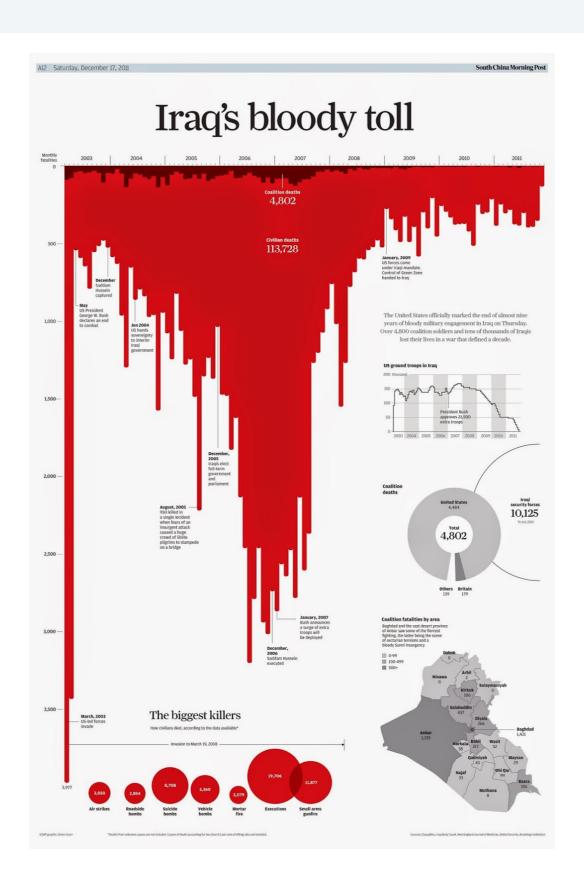
Gun deaths in Florida

Number of murders committed using firearms



Source: Florida Department of Law Enforcement

Advertisers manipulate, journalists inform/ A good example





Advertisers manipulate, journalists inform/ Gausation vs. correlation

Causation vs. correlation

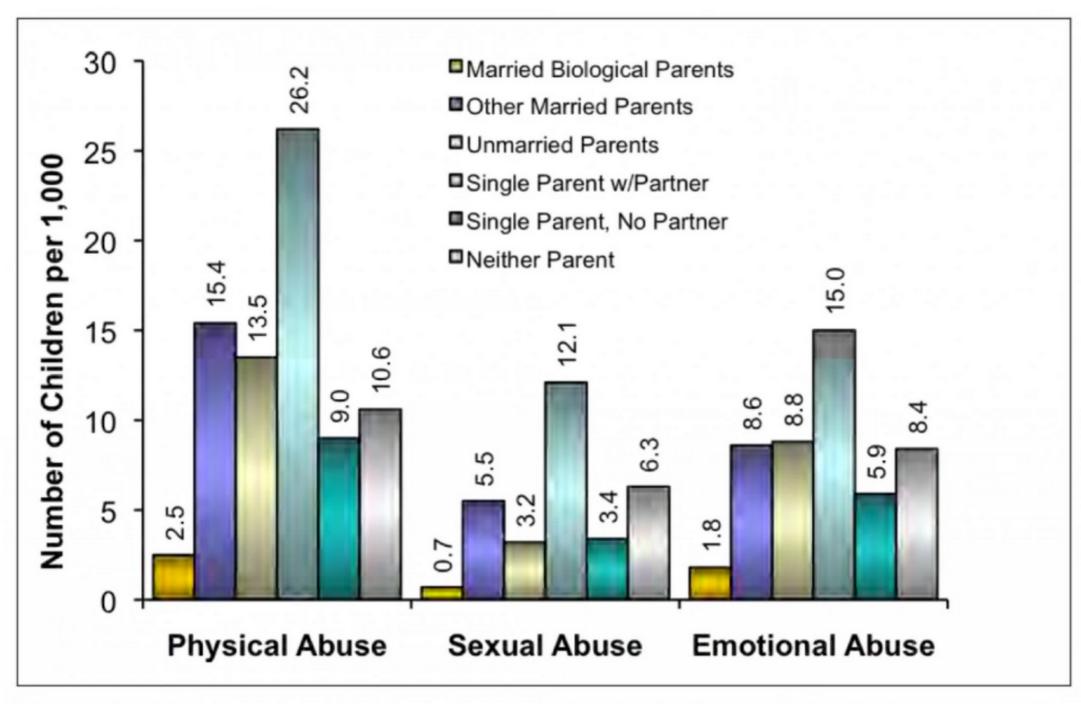


Figure 5–10. Incidence of Endangerment Standard Abuse by Family Structure and Living Arrangement.

Source: Washington Post OpEd

Causation vs. correlation

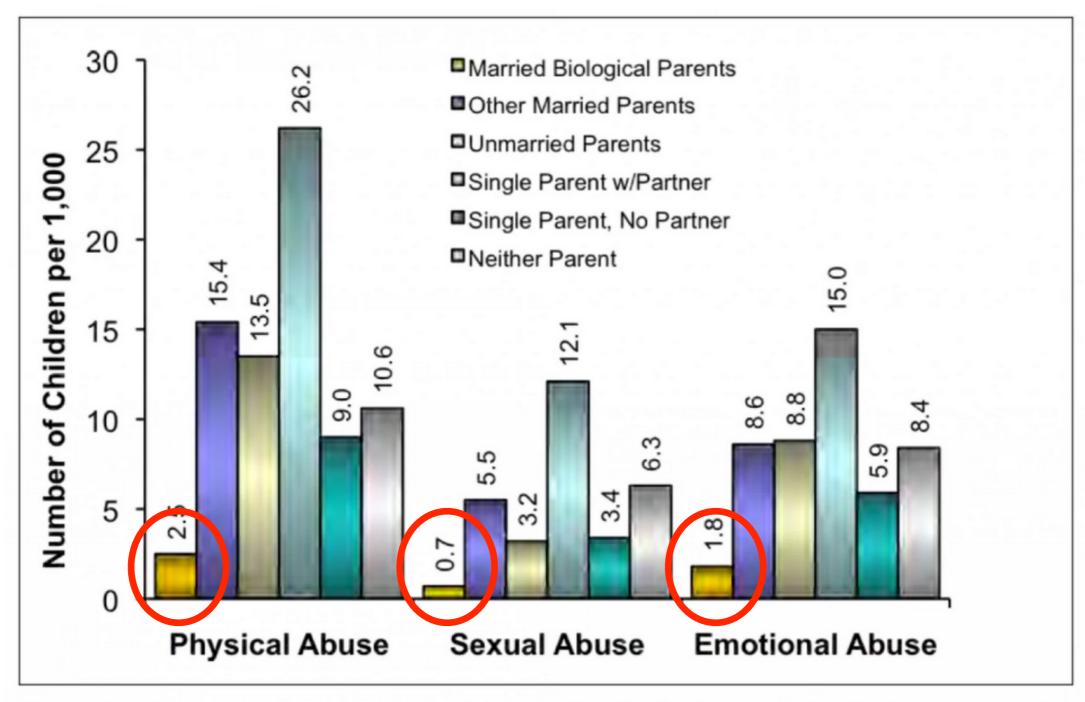


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Advertisers manipulate, journalists inform/ Emotional design/ Causation vs. correlation

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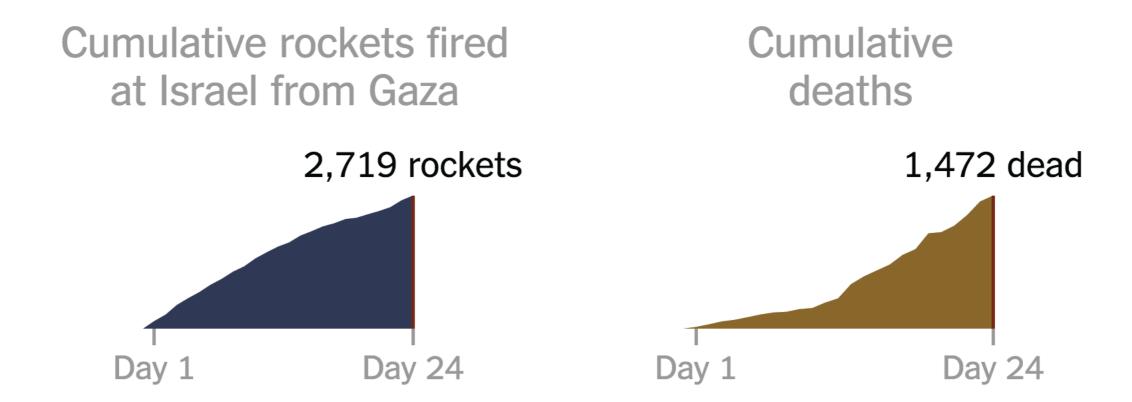
When good design goes bad: your power as a designer



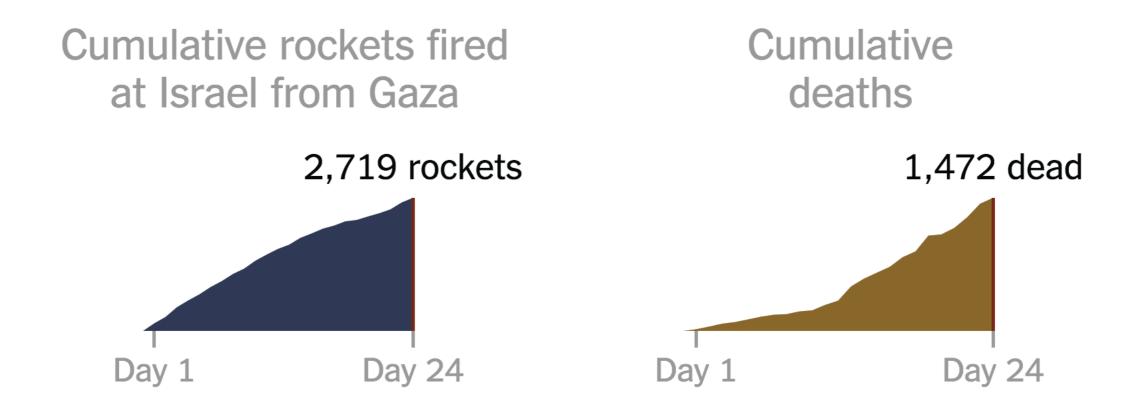
Introduction

The New York Times

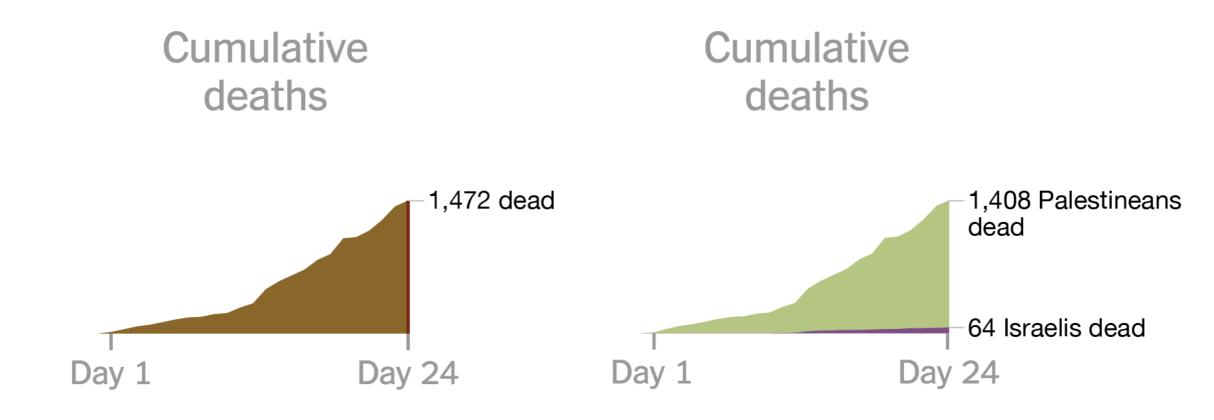
In Gaza, a Pattern of Conflict

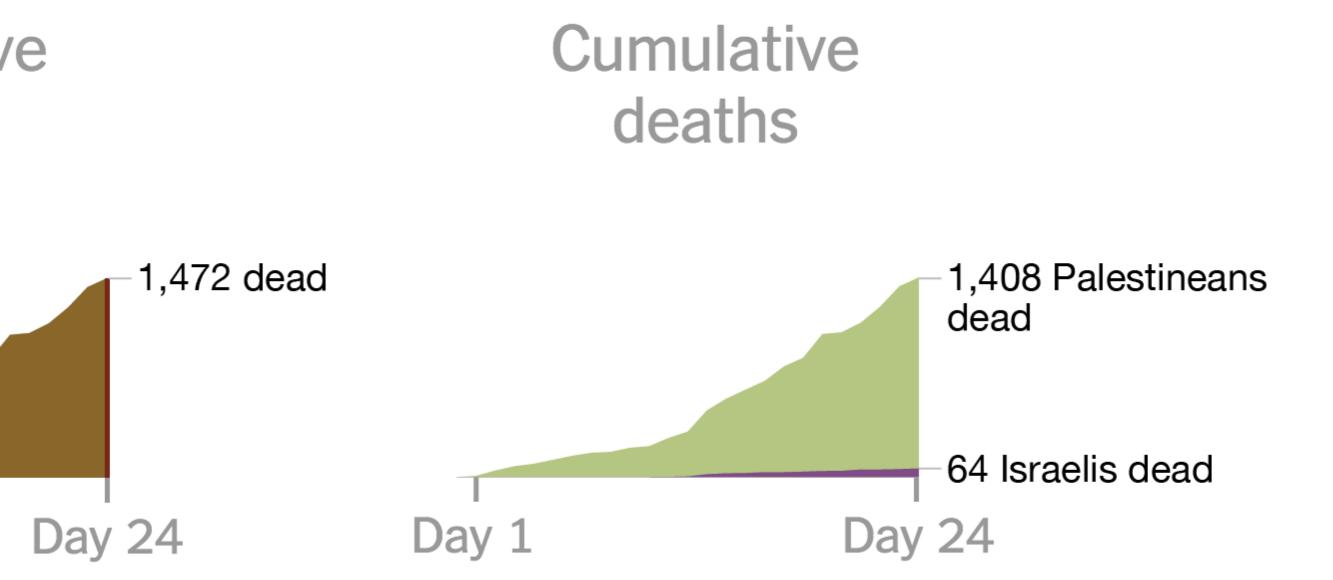


Using proximity to suggest false association









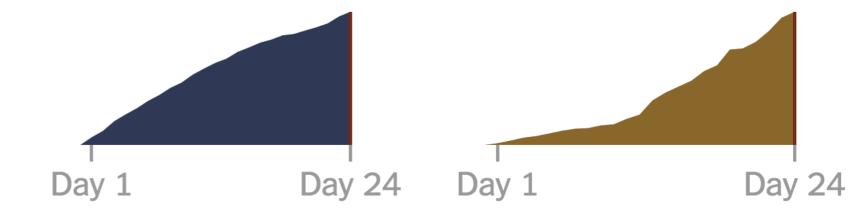


Cumulative Israeli airstrikes/ground attacks

> WHERE IS THIS DATA?

Cumulative rockets fired at Israel from Gaza

Cumulative deaths







Patrick Leddy @LeddyPatrick · Aug 9

000

@declankenny94 Hamas is 100% of the time the aggressor. Israel has no problem living in peace. nyti.ms/1ofzY43







View summary

Source: Twitter





Mohammed Haddad @haddadme · Aug 3

@albertocairo Less impressive @nytgraphics showing Hamas' rockets side-by-side with deaths (killed by Israel's army) nytimes.com/interactive/20...



KAnt @konstantinosant · Aug 3

Hamas rockets fired and deaths side by side on a @nytgraphics graph. Why do I assume the rockets killed those people? nytimes.com/interactive/20...







View summary



CPierre67 @CPierre67 · Aug 3

@nytimes did it again nyti.ms/1m8Y6Wr. As if #Israel, the "victim" par excellence, did not start the conflict.

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View summary

Source: Twitter

Manipulating data to back up your narrative

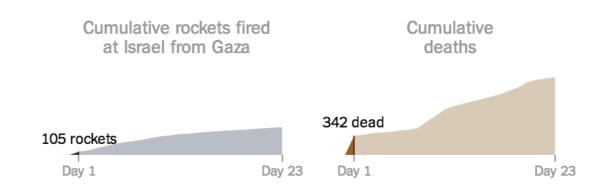
After persistent rocket fire from Gaza, Israel launches air campaign and threatens ground invasion.

2008-9 **Day 1** of 23

Airstrikes kill more than 300 Palestinians — the highest one-day toll in decades. Israeli officials say the strikes are the start of an operation to force Hamas to end its rocket barrages and could include ground forces.

2012 **Day 1** of 8

Israel unleashes a ferocious air assault on Gaza, killing a top military commander of Hamas, and warns that a ground invasion could be coming.





2014 Day 1

Source: The New York Times

00 targets — including senior ling tunnels and rocket

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Thank you

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