Lecture 5

Infographics

- Definition and Overview
- Relationship to Information Visualization
- Isotype and Infographics Examples
- Using Information Design & Infographics to Advocate

New York Times Visual DataStories

- 2020 Coronavirus Outbreak
- 2017 2019
- 2010 2016
- 2008 2009

Infographics

Graphic Representation of

Data, Information, Knowledge

using

Lines, Boxes, Arrows

Symbols, Pictograms

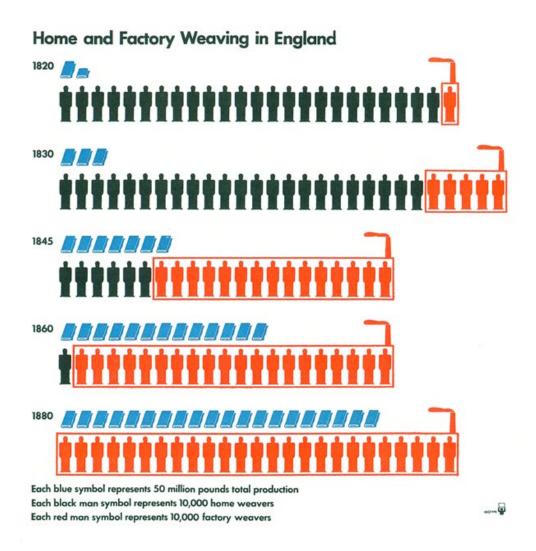
Text, Color, Labels

http://en.wikipedia.org/wiki/Information_graphics

Infographics vs. Information Visualization

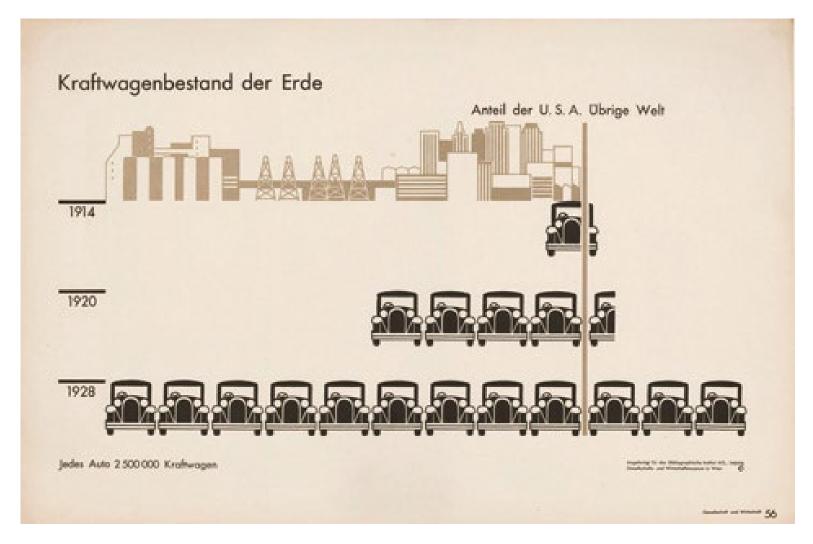
	Infographics	InfoVis
Content	Data Information Knowledge	Data Information
Visualizations	Standard Charts Symbols Diagrams Color Text	Novel Charts InfoVis Principles
Interactivity	Mostly Static	Sliders & Controls Dynamic Queries Animations
Narrative Structure	Medium - High	Low - Medium
Data-Ink Ratio	Medium	Medium – High
Data Size & Data Dimensions	Low – Medium	Medium - High

Isotype (International System of Typographic Picture Education)



http://en.wikipedia.org/wiki/Isotype (picture language)

Isotype (International System of Typographic Picture Education)



http://www.isotyperevisited.org/

Infographics – Some Resources

Cool Infographics

http://coolinfographics.blogspot.com/

Smashing Magazine

http://www.smashingmagazine.com/2008/01/14/monday-inspiration-datavisualization-and-infographics/

Six Revisions

http://sixrevisions.com/graphics-design/40-useful-and-creative-infographics/

New York Times Visualizations

New York Times has Visualization Team

http://www.nytimes.com/2009/01/19/business/media/19askthetimes.html

- Leading adopter of visualization tools in the news media
- At the forefront of enhancing new stories with interactive content
- **Community API** http://open.blogs.nytimes.com/2008/10/30/announcing-the-new-york-times-community-api/

Combining Static Infographics and Interactive Visualization Beginning to Develop "DataStories"

- Remade in America http://projects.nytimes.com/immigration/
- **Debt Trap** http://nytimes.com/interactive/2008/07/20/business/20debt-trap.html
- **Election 2008** http://elections.nytimes.com/2008/results/president/map.html

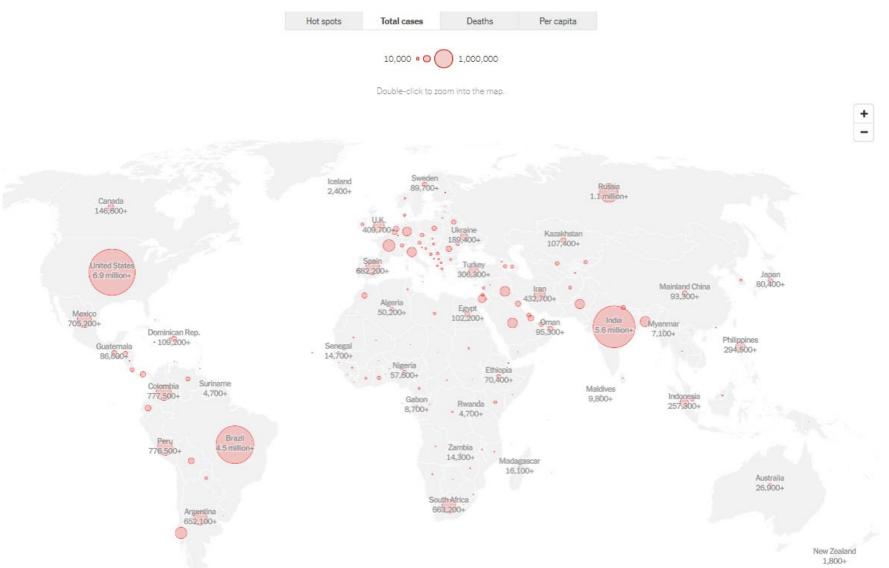
COVID-19 Dashboard Johns Hopkins University

https://coronavirus.jhu.edu/map.html



Covid World Map: Tracking the Global Outbreak

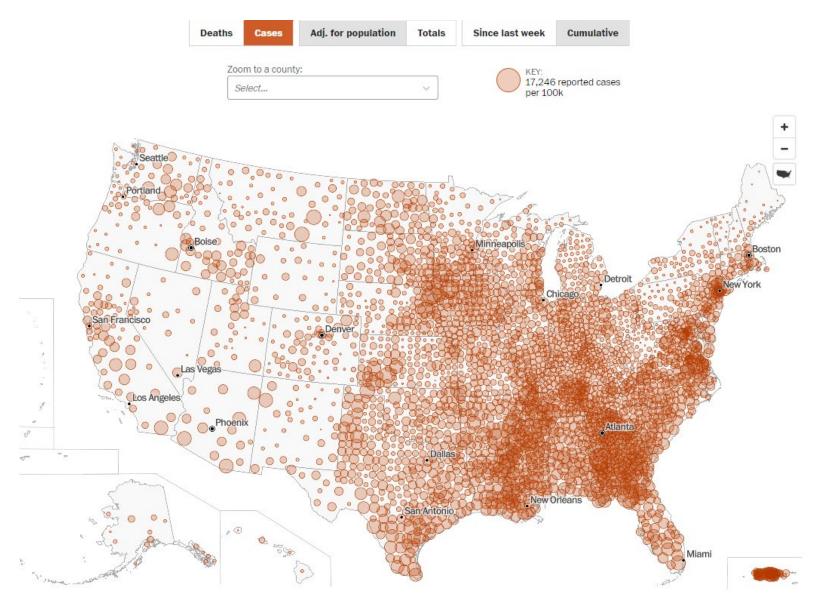
https://www.nytimes.com/interactive/2020/world/coronavirus-maps.html



WashPost Visualizations - 2020 - Coronavirus Outbreak

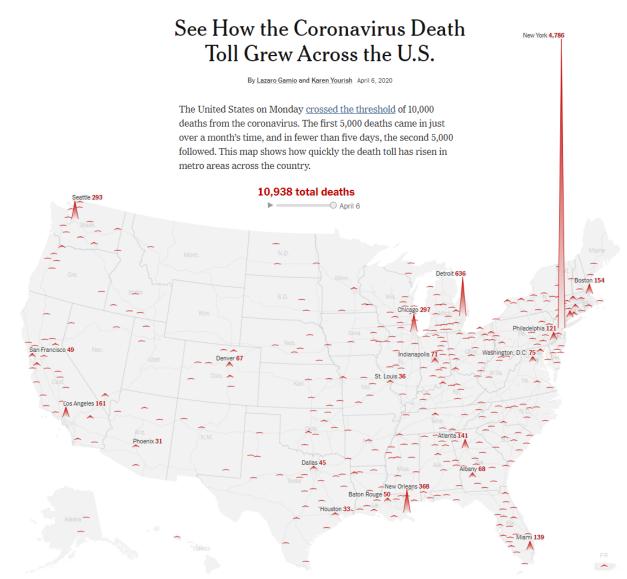
Covid World Map: Tracking the Global Outbreak

https://www.washingtonpost.com/graphics/2020/national/coronavirus-us-cases-deaths/



See How the Coronavirus Death Toll Grew Across the U.S.

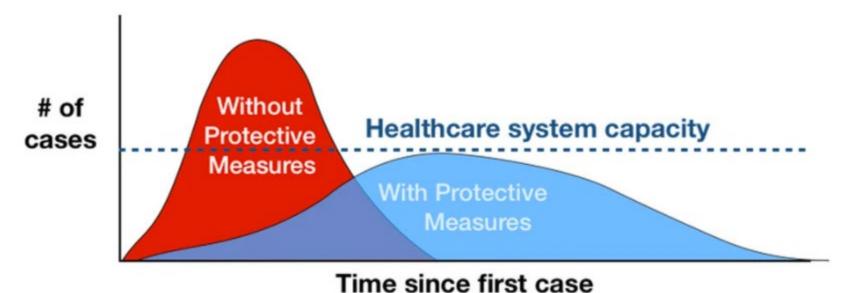
https://www.nytimes.com/interactive/2020/04/06/us/coronavirus-deaths-united-states.html



m Spoerri

Flattening the Coronavirus Curve

https://www.nytimes.com/article/flatten-curve-coronavirus.html

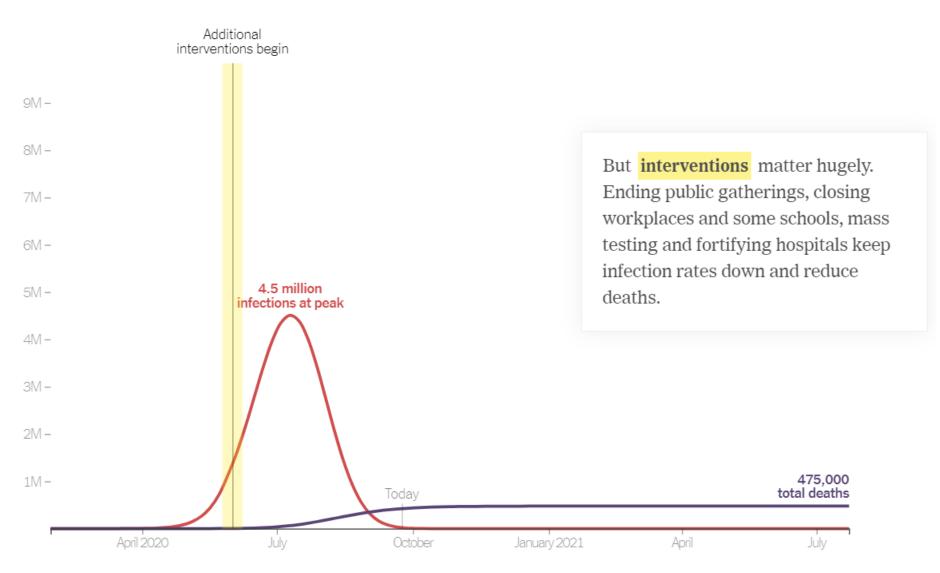


The Francist

Adapted from CDC / The Economist

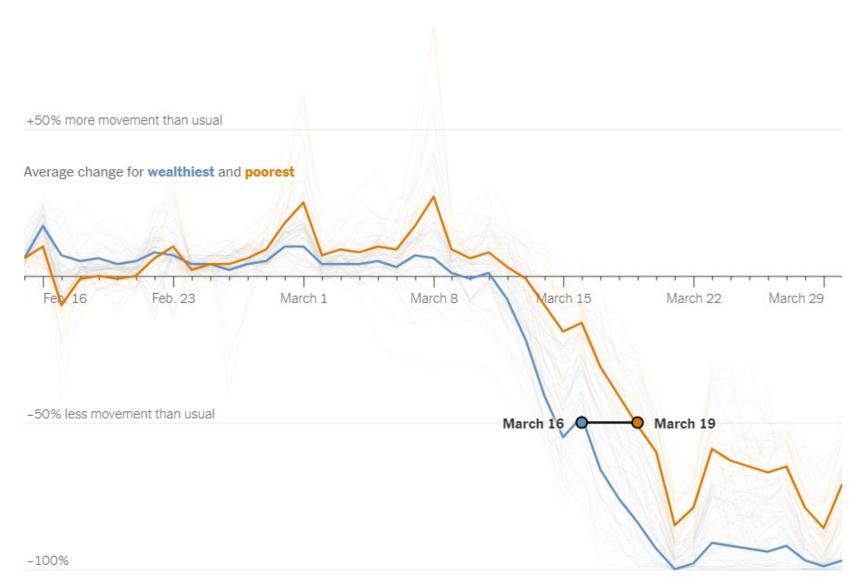
How Much Worse the Coronavirus Could Get, in Charts

https://www.nytimes.com/interactive/2020/03/13/opinion/coronavirus-trump-response.html



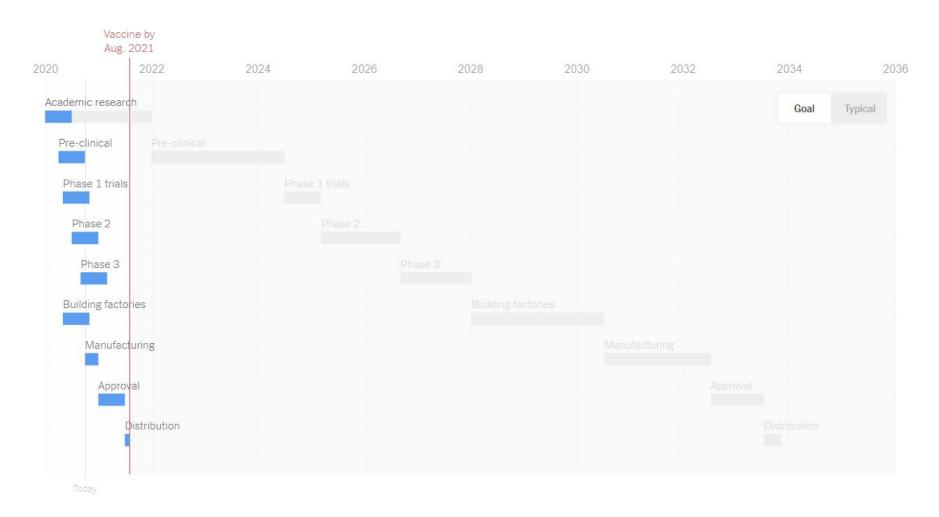
Location Data Says It All: Staying at Home During Coronavirus Is a Luxury

https://www.nytimes.com/interactive/2020/04/03/us/coronavirus-stay-home-rich-poor.html



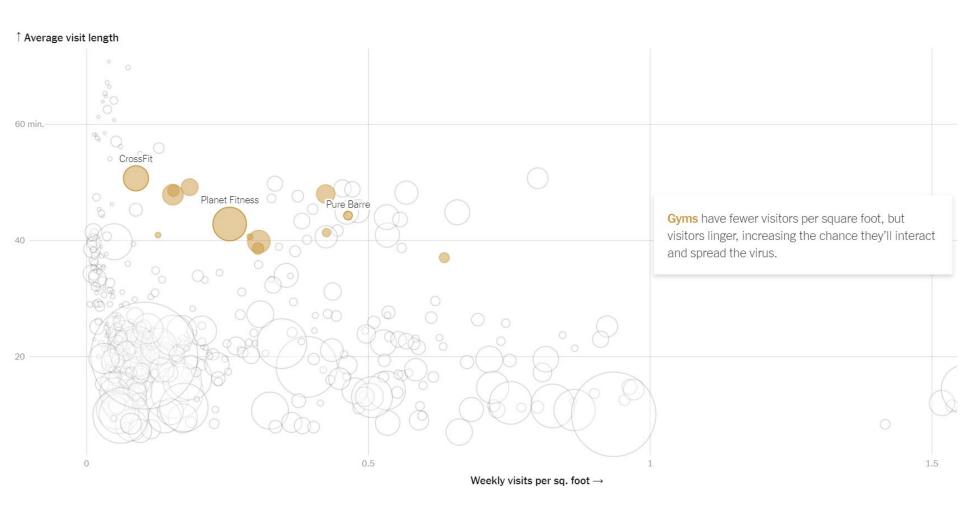
How Long Will a Vaccine Really Take?

https://www.nytimes.com/interactive/2020/04/30/opinion/coronavirus-covid-vaccine.html



Is It Safer to Visit a Coffee Shop or a Gym?

https://www.nytimes.com/interactive/2020/05/06/opinion/coronavirus-us-reopen.html



Most States That Are Reopening Fail to Meet White House Guidelines

https://www.nytimes.com/interactive/2020/05/07/us/coronavirus-states-reopen-criteria.html

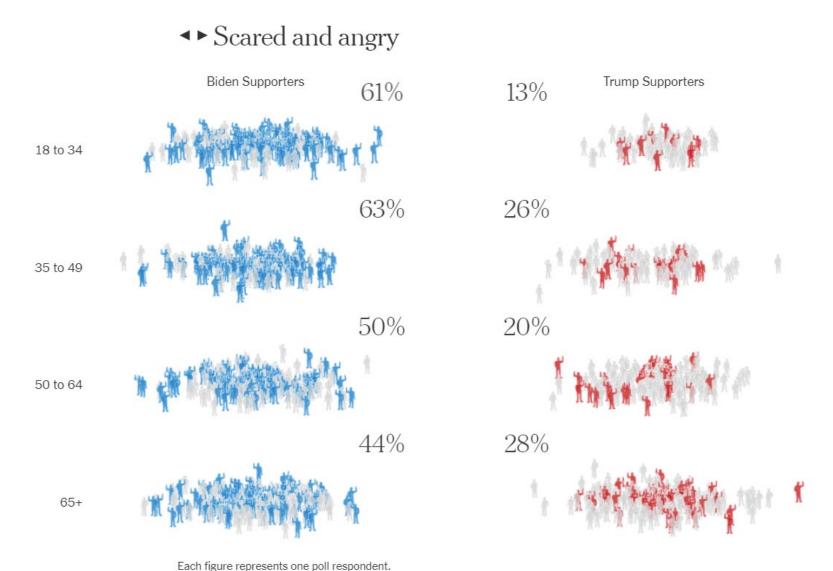
States where new cases have increased

Daily new cases, seven-day average



How Americans Feel About the Country Right Now: Anxious. Hopeful.

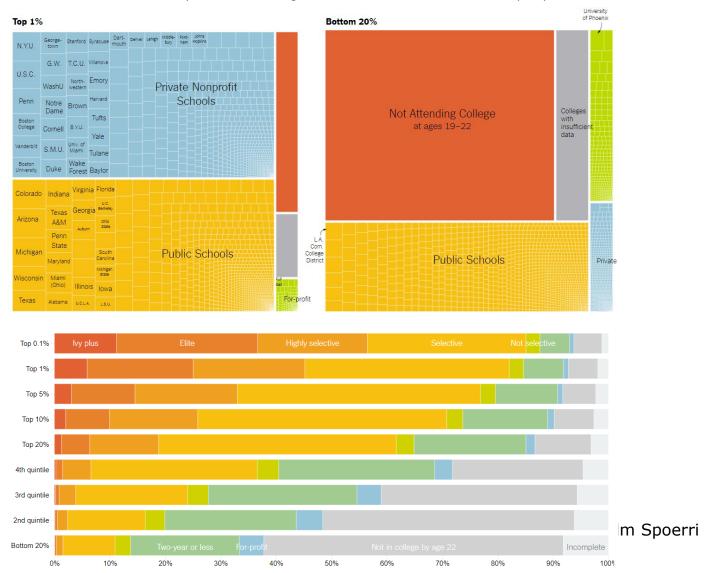
https://www.nytimes.com/2020/06/27/us/politics/coronavirus-trump-mood-poll.html



NYTimes Visualizations – 2017 to 2019

Some Colleges Have More Students From the Top 1 Percent Than the Bottom 60

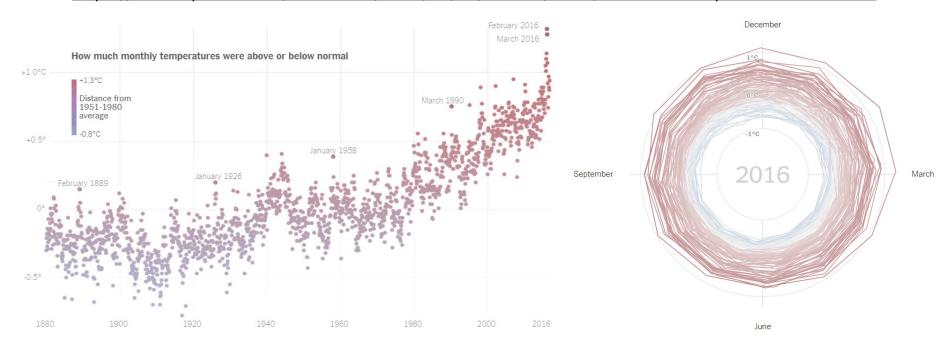
https://www.nytimes.com/interactive/2017/01/18/upshot/some-colleges-have-more-students-from-the-top-1-percent-than-the-bottom-60.html



NYTimes Visualizations – 2017 to 2019

How 2016 Became Earth's Hottest Year on Record

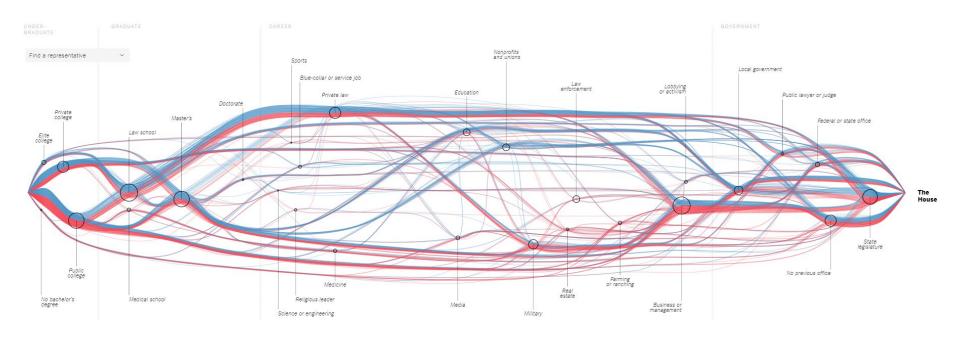
https://www.nytimes.com/interactive/2017/01/18/science/earth/2016-hottest-year-on-record.html



NYTimes Visualizations – 2017 to 2019

How Every Member Got to Congress

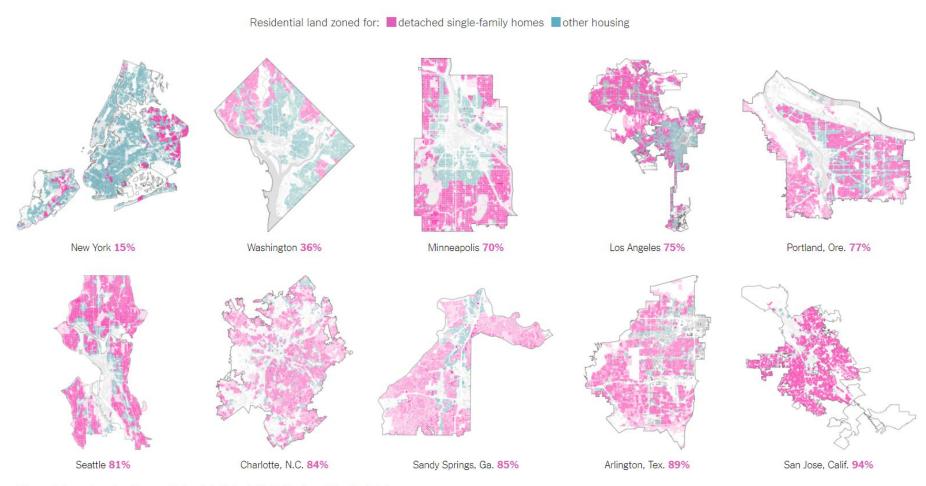
https://www.nytimes.com/interactive/2019/01/26/opinion/sunday/paths-to-congress.html



NYTimes Visualizations - 2017 to 2019

Cities Start to Question an American Ideal: A House With a Yard on Every Lot

https://www.nytimes.com/interactive/2019/06/18/upshot/cities-across-america-question-single-family-zoning.html



NYTimes Visualizations – 2010 to 2016

A Peek Into Netflix Queues

http://www.nytimes.com/interactive/2010/01/10/nyregion/20100110-netflix-map.html

How Different Groups Spend Their Day

http://www.nytimes.com/interactive/2009/07/31/business/20080801-metrics-graphic.html

Degrees of Debt

http://www.nytimes.com/interactive/2012/05/13/business/student-debt-at-colleges-and-universities.html

Mapping Migration in US

http://www.nytimes.com/2014/08/16/upshot/mapping-migration-in-the-united-states-since-1900.html

NYTimes Visualizations – 2010 to 2016

Keys to Victory

http://www.nytimes.com/interactive/2011/09/30/us/politics/keys-to-victory.html

Paths to the White House

http://elections.nytimes.com/2012/results/president/scenarios

Very Detailed Map of 2016 Election

https://www.nytimes.com/interactive/2018/07/25/upshot/precinct-map-highlights.html

NYTimes Visualizations – Budget Visualizations

Compare Two Approaches

- 2011 Proposal
 http://www.nytimes.com/interactive/2010/02/01/us/budget.html
- 2013 Proposal http://www.nytimes.com/interactive/2012/02/13/us/politics/2013-budget-proposal-graphic.html
- Which visualization is easier to use?
- What type of questions are easy to answer?
- What different Perceptual Properties are used?

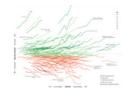
NYTimes Visualizations - 2010 to 2016



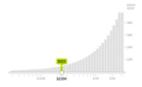
Maps and charts, updated weekly, show the **extent of drought** in the U.S. IUIY 25



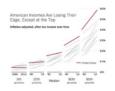
An interactive map of the **hardest places to live** in the U.S. JUNE 26



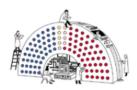
255 charts show how the recession reshaped the economy. JUNE 05



Is it better to rent or buy? Our interactive calculator helps you decide. MAY 21



The American middle class, once the world's richest, **no longer**is, APRIL 22



Who will win the Senate? Our model predicts the answer every day. APRIL 22

We also like sports. Here's some of our best stuff on that topic:



An analysis of Facebook activity reveals **how fan support changed** during the tournament.

JUIY 14

Semifinals
22% - Bundesliga (Germany)
14% - Premier League (England)
11N Serie A (Italy)
9% Eredivisie (Netherlands)
8% La Liga (Spairs)
7% Serie A (Brazil)
5% - Ligue 1 (France)
4%
4%
2% - Premier League (Likraine)

England, Italy and Spain were eliminated from the World Cup early — but their professional leagues still did very well. JULY 07



The World Cup draw was unfair to several teams, including the United States. We simulate a better way. JUNE 03



An interactive map lets you explore **N.B.A. fan boundaries.** MAY 12



A thought experiment imagines what **the Premier League standings** would be without any non-English players. MAY 11



This interactive map takes you up close on baseball's borders. APRIL 24

How Different Groups Spend Their Day | Where We Came From and Where We Went

2014 US Senate Maps | US Demographics | Voting Habits of Americans | Money, Race, Success

New York Times Visualizations – 2008 to 2009

New York Times has Visualization Team

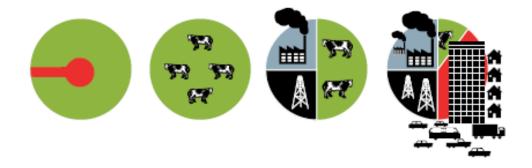
http://www.nytimes.com/2009/01/19/business/media/19askthetimes.html

- Leading adopter of visualization tools in the news media
- At the forefront of enhancing new stories with interactive content
- Designers
 - Matthew Ericson http://www.ericson.net/content/
 - Michael Bostock http://bost.ocks.org/mike/ developer of d3

Combining Static Infographics and Interactive Visualization Beginning to Develop "DataStories"

- Debt Trap http://nytimes.com/interactive/2008/07/20/business/20debt-trap.html
- **Toxic Waters** http://projects.nytimes.com/toxic-waters

Using Information Design & Infographics to Advocate



Visualizing Information for Advocacy

An Introduction to Information Design

http://upload.wikimedia.org/wikipedia/commons/a/a7/Visualizing Information for Advocacy - An Introduction to Information Design.pdf