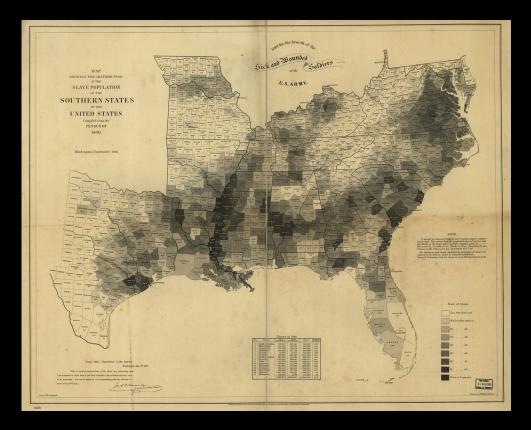


Publishing Spatial Data

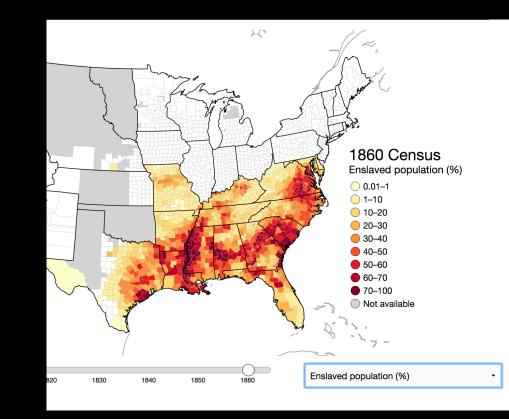
Working with Data Maps

Data Maps

U.S. Coast Survey, *Map showing the distribution of the slave population of the southern states of the United States* (Washington, DC: Henry S. Graham, 1861). Image from <u>the Library of Congress</u>.

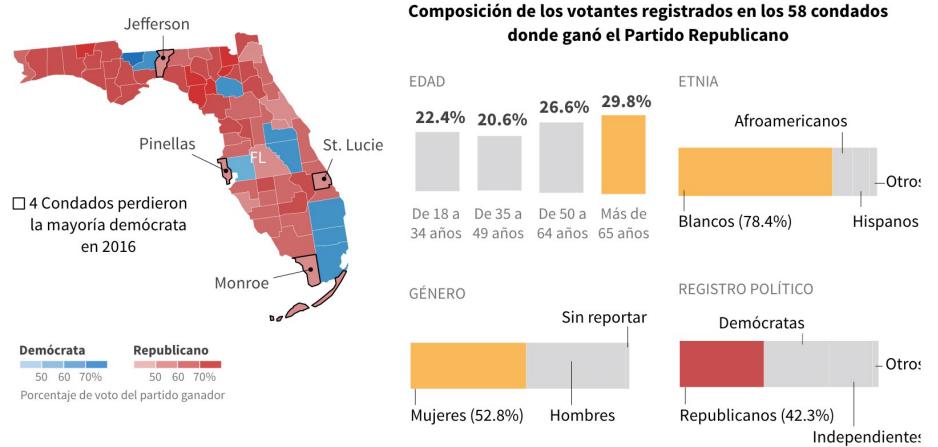


The Spread of U.S. Slavery, 1790–1860





Univisión Noticias



https://www.univision.com/noticias/elecciones-2016/los-hispanos-no-fallaron-en-florida-fueron-losblancos-quienes-sorprendieron-y-marcaron-el-inicio-de-la-victoria-de-trump

The Washington Post



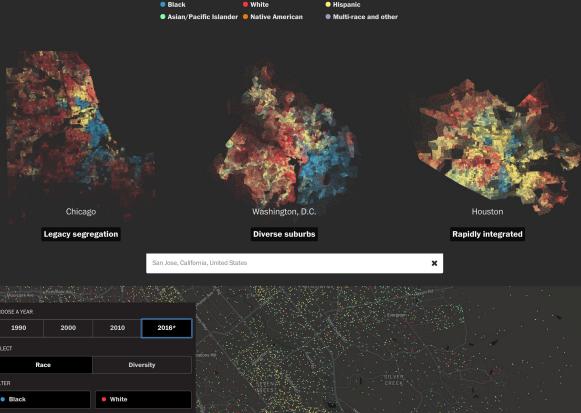
National • Analysis

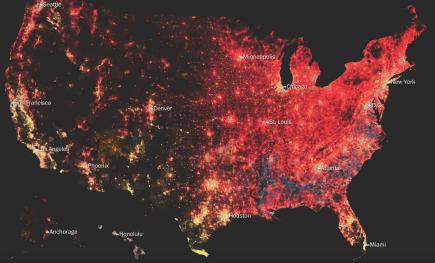
America is more diverse than ever – but still segregated

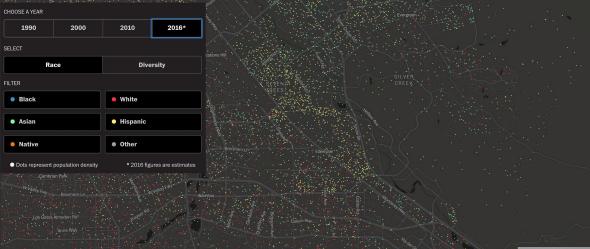
The United States is on track to be a majority-minority nation by 2044. But census data show most of our neighbors are the same race.

By <u>Aaron Williams</u> and <u>Armand Emamdjomeh</u> May 2, 2018

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

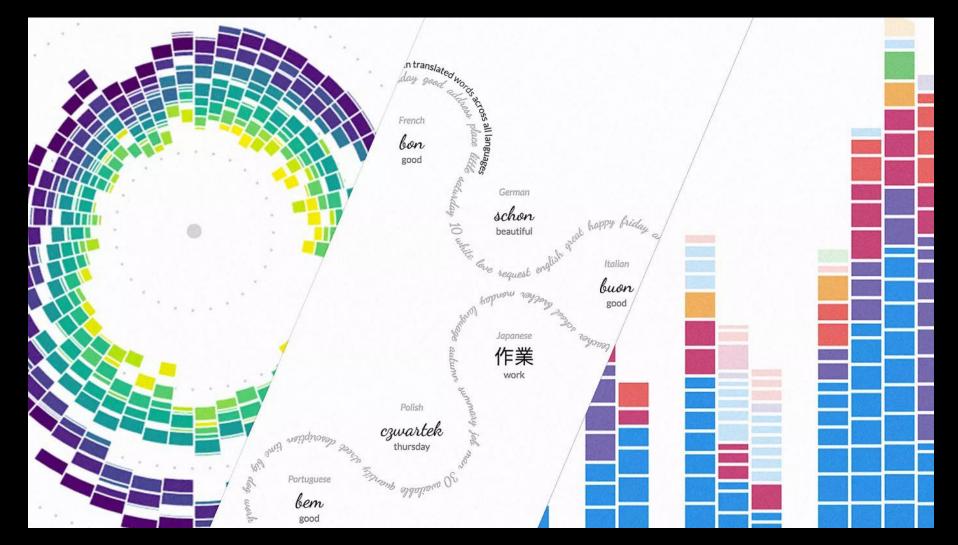






https://www.washingtonpost.com/graphics/2018/national/segregation-us-cities/?%3Ftid%3D=sm_pg&utm_term=.6785ebcaf520

Google News Lab:



https://www.fastcodesign.com/90111367/what-happens-when-google-turns-artists-loose-on-its-search-data

SEE ALL PROJECTS:

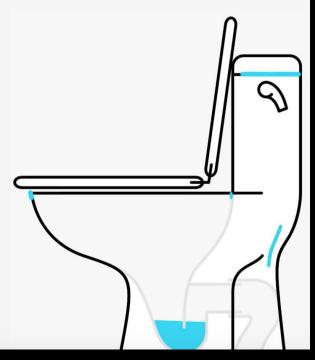
https://trends.google.com/trends/story/US_cu_6fXtAFIBAABWdM_en

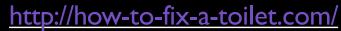
Google News Lab

How To Fix a Toilet

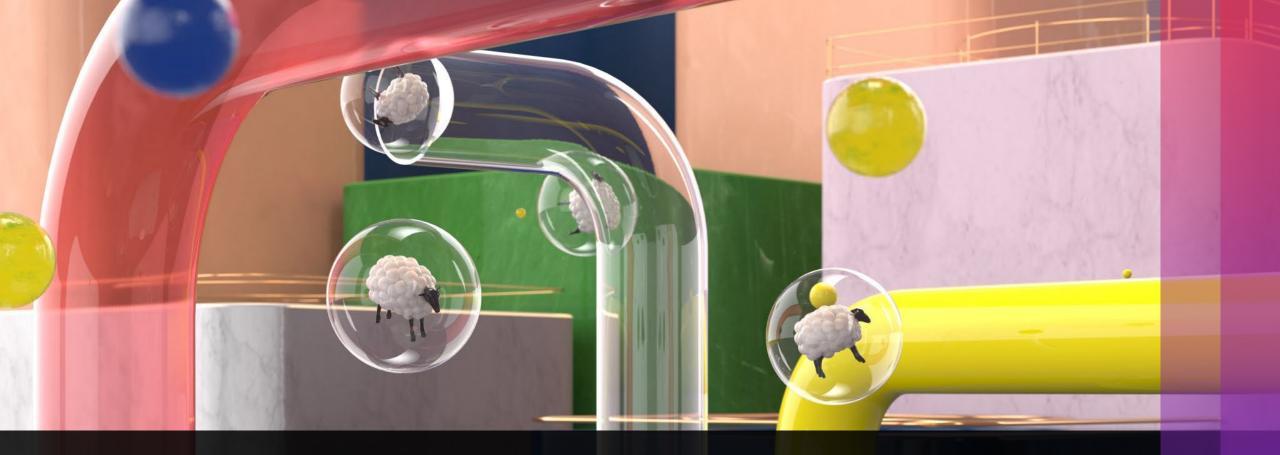
And Other Things We Couldn't Do Without Search

A collaboration with **Google News Lab** A visual essay by **Xaquín G.V.**



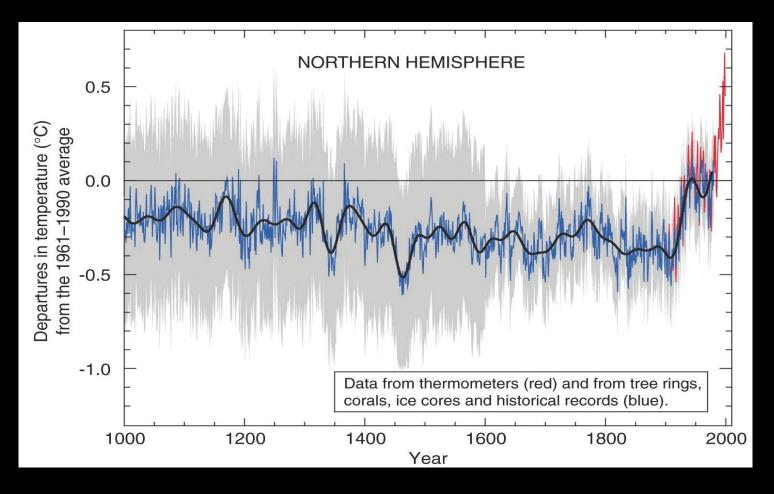


It looks like magic but it isn't...



The Elements of Visualization

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12	1010	0.1187	1010	0 880	1878		0873	1878		13228	0.226457	8.25298E-02		5209E-02	
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				901	1899	-0.	3486	1899	0.1	13228	0.226456	8.25297E-02	7.75	5207E-02	
				902	1900	-0.	1253	1900	0.1	13229	0.226457	8.25300E-02	7.75	5210E-02	
				903	1901	-0.	1575	1901	0.1	13228	0.226456	8.25296E-02	7.75	5206E-02	



• Michael E. Mann, Raymond S. Bradley, and Malcolm K. Hughes Intergovernmental Panel on Climate Change (IPCC), Third Report, 2001

Optional: Exploring Data

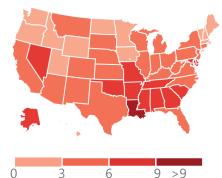
- We will use a data set from <u>Matthew Lincoln's</u> research on Dutch art. His dataset on works of art that depict places in Amsterdam can be downloaded from the <u>resources</u> page. You should begin by looking at the <u>repository in which</u> <u>his data is stored</u>, and by reading the <u>associated blog post</u> where he talks about his research questions.
- Examining the data
 - Begin by answering these questions:
 - Where did he get his data?
 - How did he gather it?
 - What research questions did he have?
 - How did these questions shape the data?
- Now download and open the data sets. Notice that there are three files in <u>comma-separated values</u> (CSV) format.
 These can be opened in a spreadsheet program like Libre Office or Excel. Try to answer these questions.
 - What information do these files hold?
 - Where is the spatial data? What kind of spatial data is there?
 - What is the relationship between the files?

A FRAMEWORK + VISUAL ENCODINGS + ANNOTATIONS

T

COMPLETE CHART

MURDERS Rate per 100,000 people (2015)



Source: FBI Uniform Crime Reports



MURDERS Rate per 100,000 people (2015)

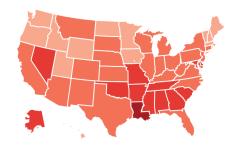


Source: FBI Uniform Crime Reports

CONTENT (ENCODING)

MURDERS

Rate per 100,000 people (2015)

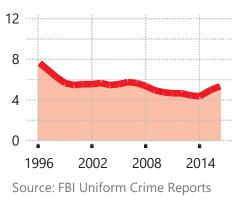




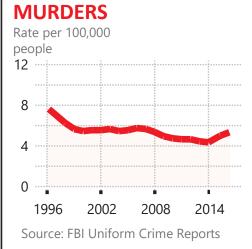
COMPLETE CHART

MURDERS

Rate per 100,000 people

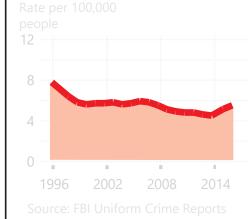


FRAMEWORK



CONTENT (ENCODING)

MURDERS

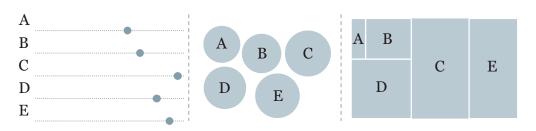


Length or height

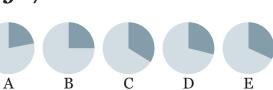




Area

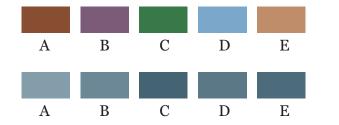


Angle/area



Visual encoding

Hue and shade



Figures represented in all these graphics: 22%, 25%, 34%, 29%, 32%

Line weight

С

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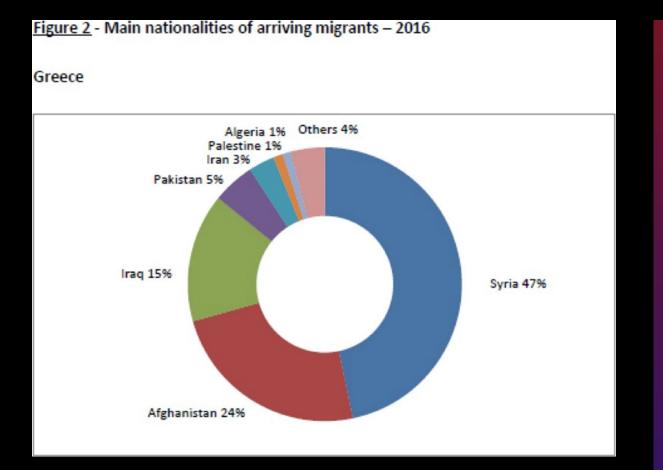
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В

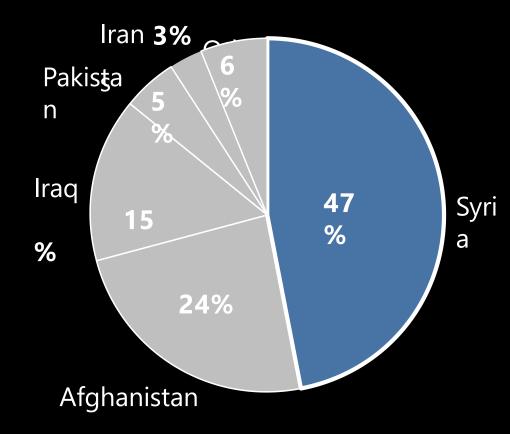
Identifying Encodings

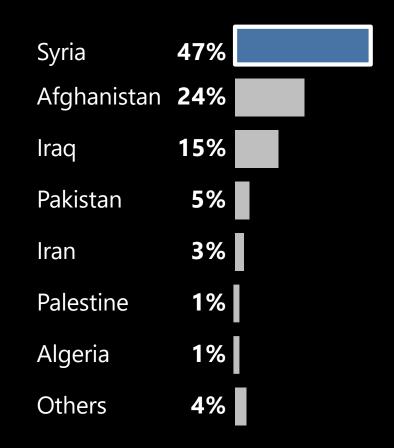
THE STYLE AND STRUCTURE OF AVISUALIZATION DEPENDON ITS PURPOSE



European Commission

EUROPEAN COMMISSION



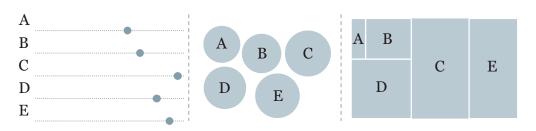


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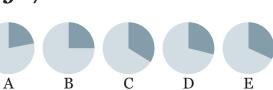




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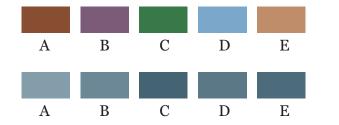


Angle/area



Visual encoding

Hue and shade



Figures represented in all these graphics: 22%, 25%, 34%, 29%, 32%

Line weight

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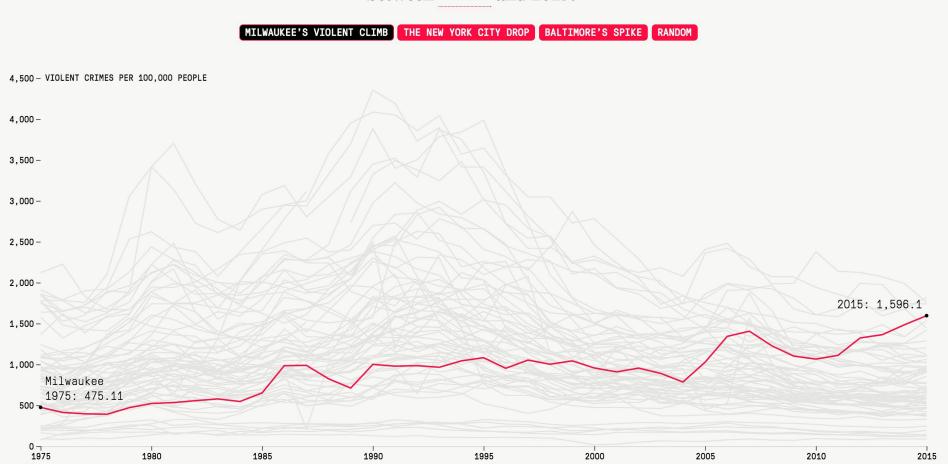
А

В

What methods of encoding can you spot here?

The rate - of violent crime - was up 236% in Milwaukee -

between **1975** and 2015.



https://www.themarshallproject.org/2016/08/18/crime-in-context#.Q2NYkV3mN

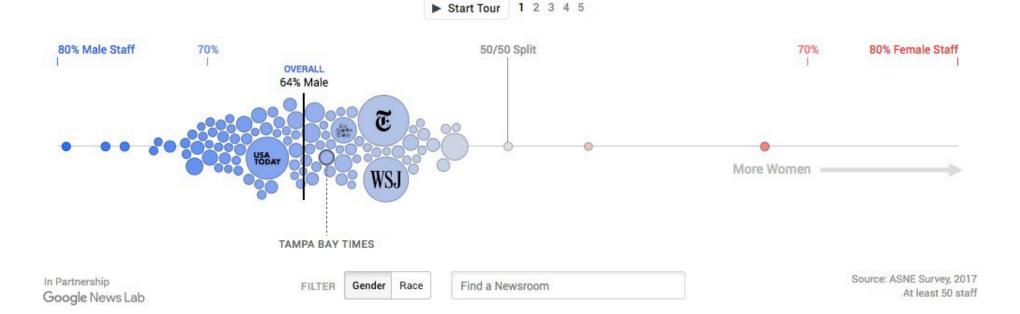
The Marshall Project

What methods of encoding can you spot here?

AMERICAN SOCIETY of NEWS EDITORS

The Diversity of US Newsrooms

The Newsroom Employment Diversity Survey measures the percentage of women and minorities working in newsrooms nationwide.



https://polygraph-cool.github.io/asne/dev/

Polygraph for Google News Lab

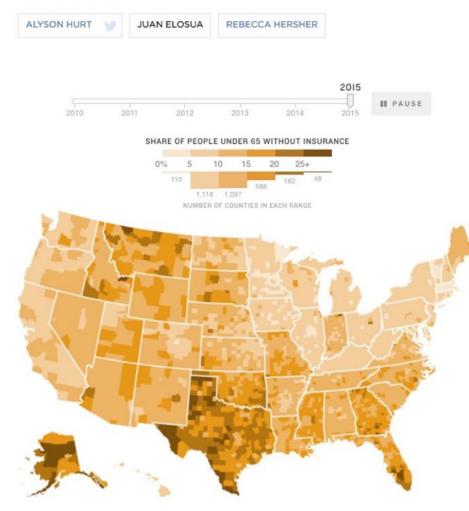
What methods of encoding can you spot here?

NPR.org

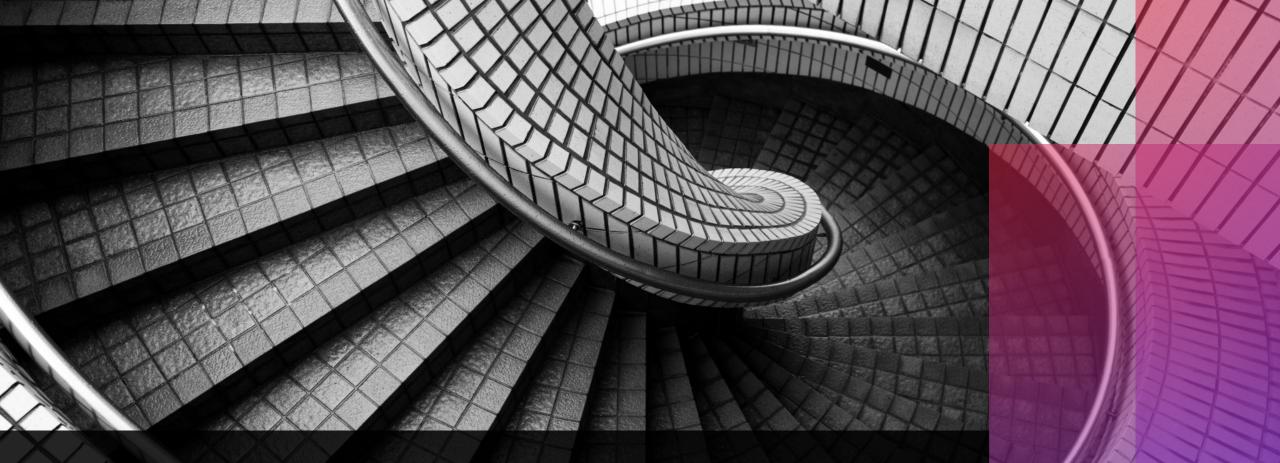
http://www.npr.org/sections/ health-shots/ 2017/04/14/522956939/maps- show-adramatic-rise-health-in- insurance-coverageunder-aca POLICY-ISH

Maps Show A Dramatic Rise In Health Insurance Coverage Under ACA

April 14, 2017 · 9:37 AM ET



Source: NPR analysis of Census Bureau data



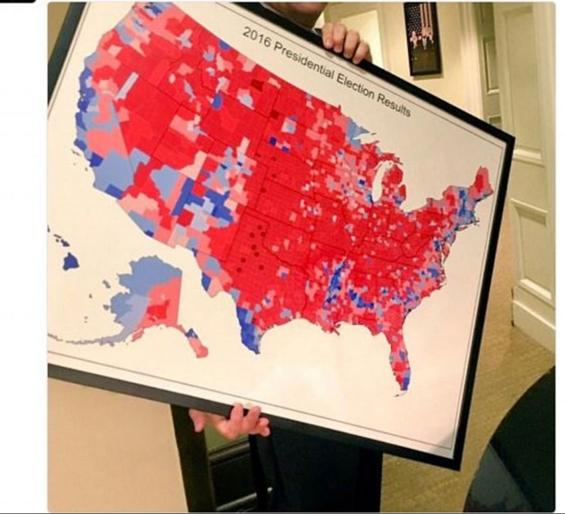
The Core Principles

Good visualizations

- I. ... Are based on good data
- 2. ...Attract your attention
- 3. ... Represent the data accurately
- 4. ...Show the right amount of data



Trey Yingst ② @TreyYingst · May 11 Spotted: A map to be hung somewhere in the West Wing



https://twitter.com/TreyYingst?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor



Gideon Resnick

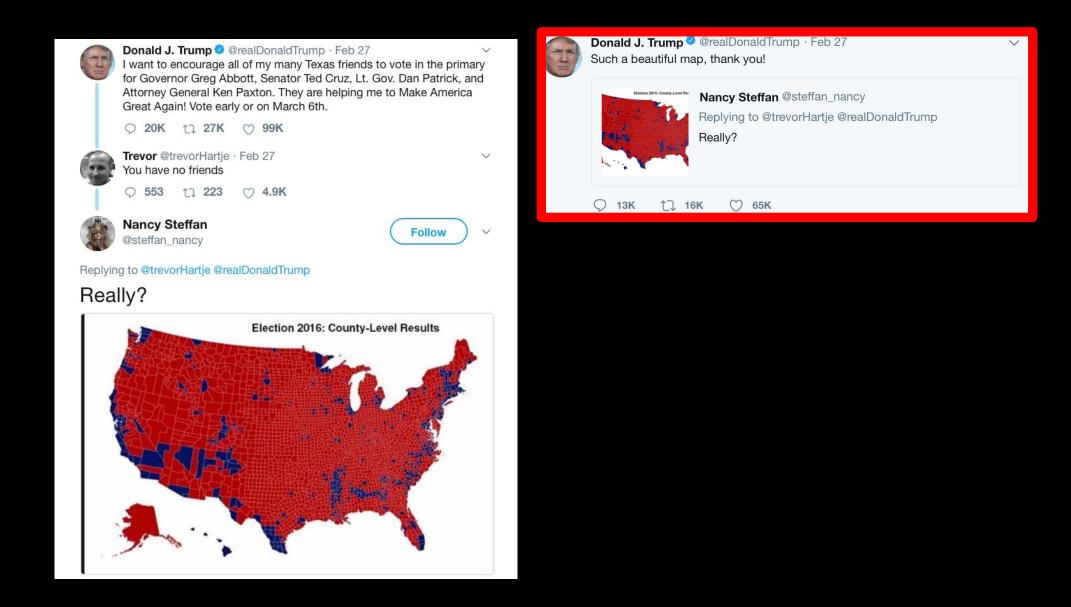
 @GideonResnick · 32m

here's a pic from reuters of Trump with the electoral maps he showed to

reporters yesterday

V





WRONG

CITIZENS⁶ **TRUMP**



THE INSIDE STORY OF THE PEOPLE'S MOVEMENT TO TAKE BACK AMERICA

* * * * *

JACK POSOBIEC

COUNTIES ^{FO}R TRUMP

RIGHT



THE INSIDE STORY OF 46% of voters' movement to take back america

* * * * *

JACK POSOBIEC



Trey Yingst @ @TreyYingst · May 11 Spotted: A map to be hung somewhere in the West Wing



Surface on the county-level map:

Red:80%Blue:20%



Surface on the county-level map:

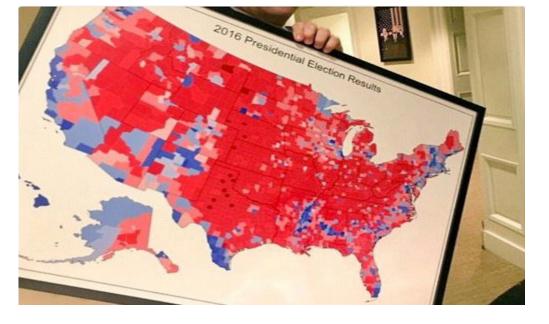
Red:80 %Blue:20 %

SHARE OF THE POPULAR VOTE IN THE 2016 PRESIDENTIAL ELECTION

Donald Trump Hillary Clinton Other candidates

46.1% 48.2% 5.7%

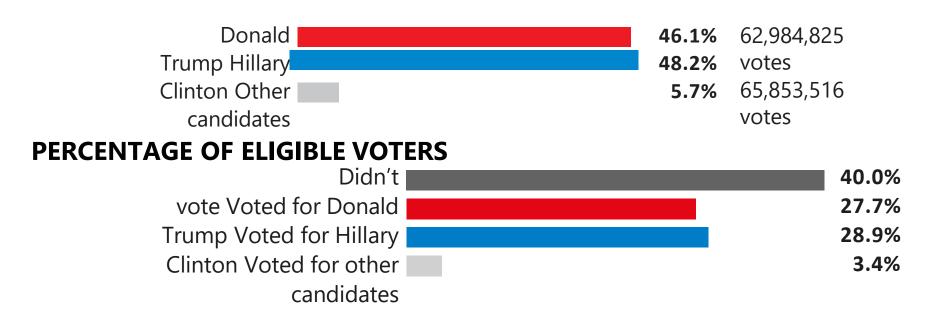
6.1% 62,984,825 votes
8.2% 65,853,516 votes
5.7%



Surface on the county-level map:

Red:80%Blue:20%

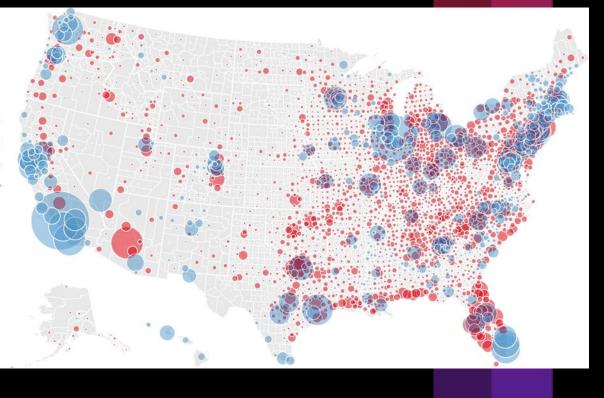
SHARE OF THE POPULAR VOTE IN THE 2016 PRESIDENTIAL ELECTION



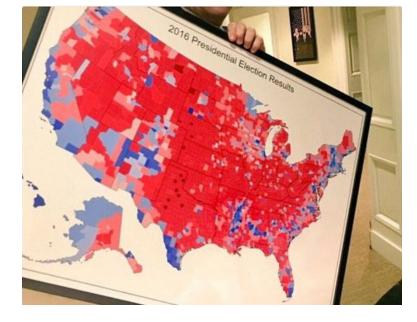
Surface on the county-level map:

Red:80%Blue:20%

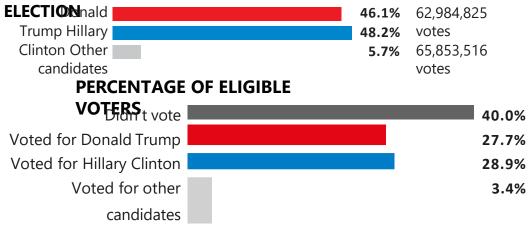




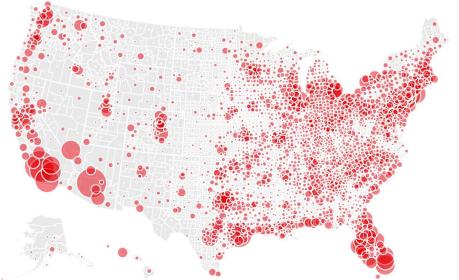
Bubble size is proportional to the number of votes received just by the candidate who won on each county

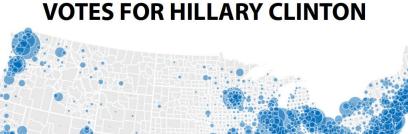


SHARE OF THE POPULAR VOTE IN THE 2016 PRESIDENTIAL

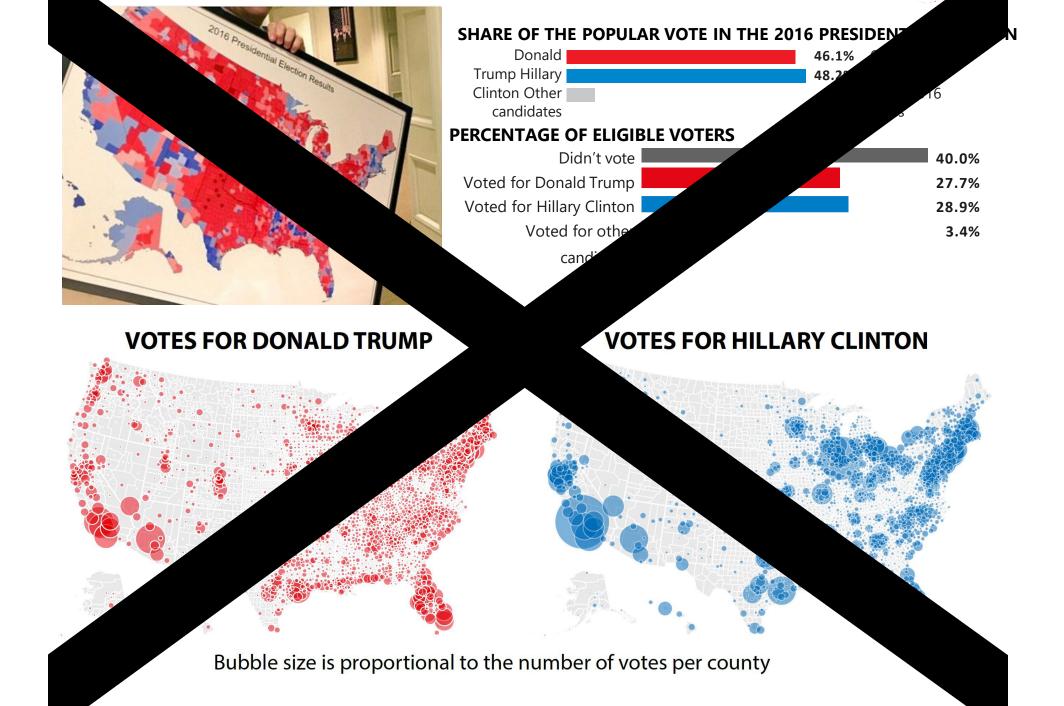


VOTES FOR DONALD TRUMP

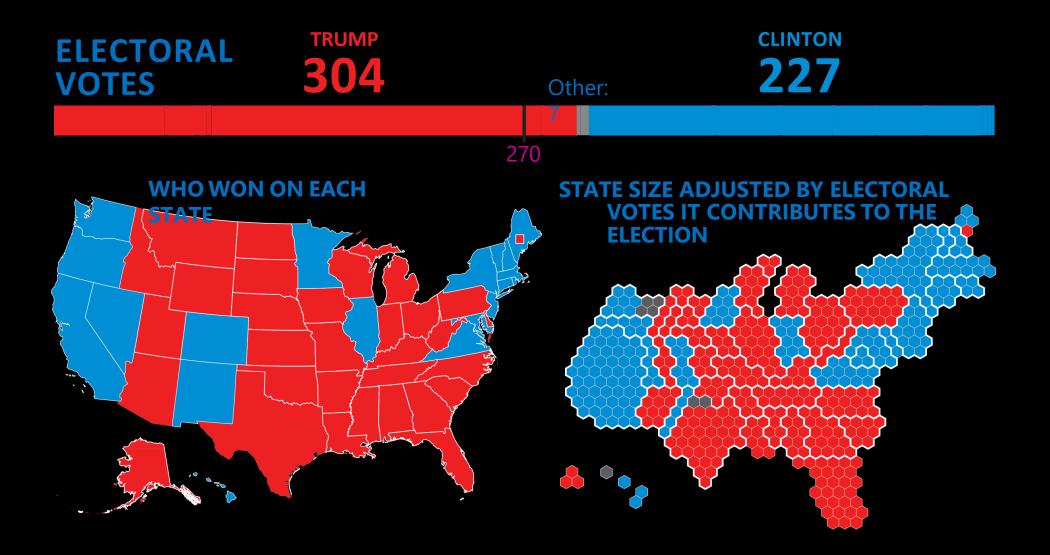




Bubble size is proportional to the number of votes per county



This is what truly matters in a presidential election



A FRAMEWORK **ONE OR MOREVISUAL ENCODINGS** ANNOTATIONS

Why Pinellas County is the worst place in Florida to be black and go to public school

By NATHANIEL LASH *Times Staff Writer* AUG. 12, 2015

f 🏏 +

The Tampa Bay Times

http://www.tampabay.com/proj ects/2015/investigations/pinell as-failure-factories/chartfailing-black-students/

The New York Times

Our Broken Economy, in One Simple Chart

By DAVID LEONHARDT AUG. 7, 2017 INCOME GROWTH Over previous 34 years But now, the very affluent +6% (the 99.999th percentile) see the largest income growth. The poor and middle class used to see the 99.99th percentile 4% largest income growth. 99th percentile 2% In 2014 1% 99th percentile 5th percentile 20th Lower Income INCOME PERCENTILE Higher Income

Note: Inflation-adjusted annual average growth using income after taxes, transfers and non-cash benefits.

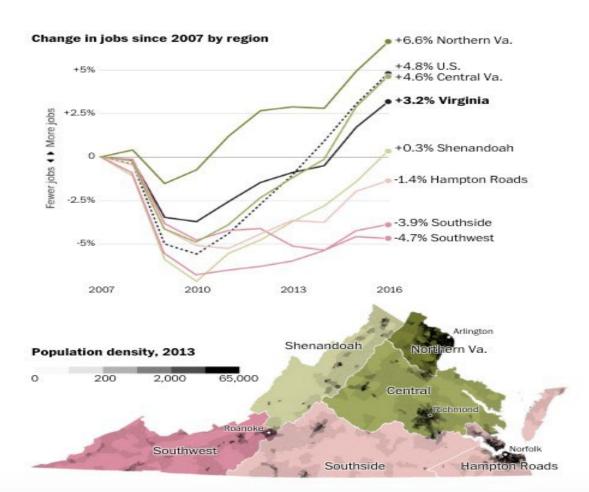
https://www.nytimes.com/interactive/2017/08/07/opinion/leonhardt-income-inequality.html

Virginia's uneven recovery mirrors its growing political divide

Urban areas of the state have mostly recovered all the jobs lost in recession — and then some. But the southern half of Virginia is still waiting.

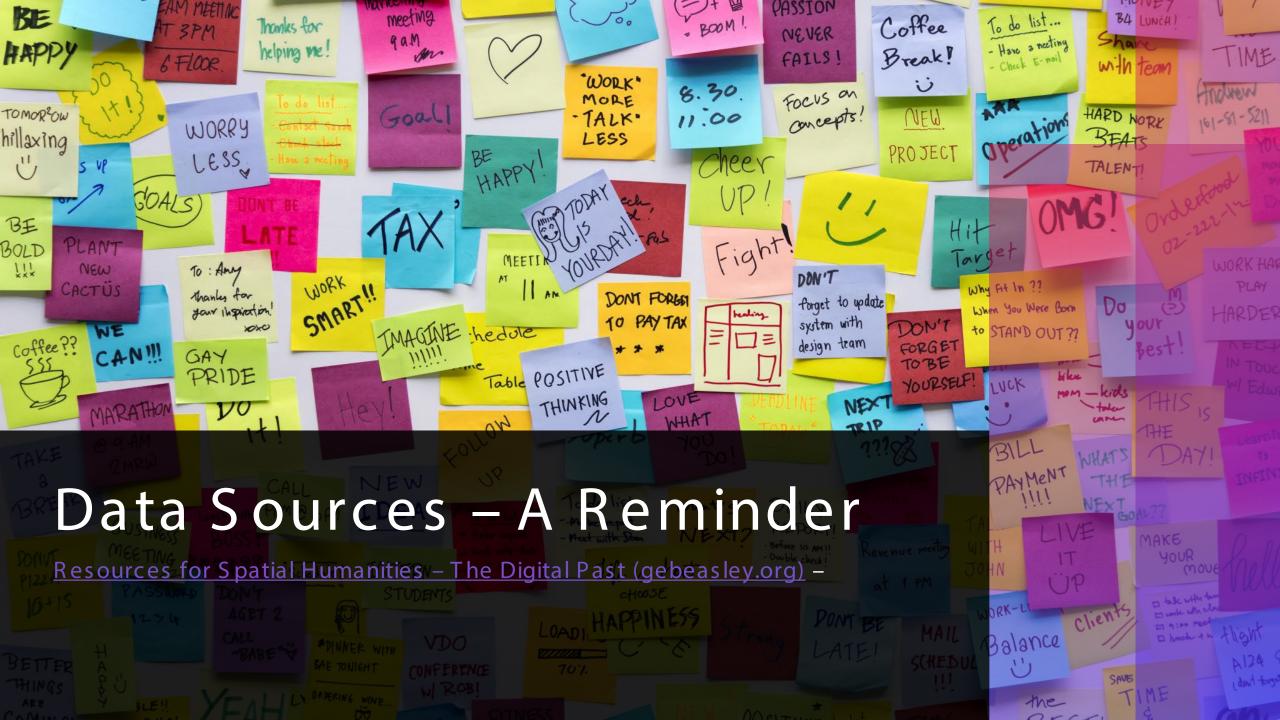
By Darla Cameron and Ted Mellnik

Nov. 3, 2017



The Washington Post

https://www.washingtonpost.com/ graphics/2017/local/virginia- politics/jobs/



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 IGNORANCE

 Data

 List of indicators • Doubt • Geography • Documentation • Data blog

The table below lists all indicators displayed in Gapminder World. Click the name of the indicator or the data provider to access information about the indicator and a link to the data provider.

Search

Indicators labeled "Various sources" are compiled by Gapminder. They can be reused freely but please attribute Gapminder.

List of indicators in Gapminder World

Gapminder

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Indicator name	Data provider	≎ Category	≎ Subcategory	ې Download	View Visualize
Adults with HIV (%, age 15-49)	Based on UNAIDS	Health	HIV		Q 🥊
Age at 1st marriage (women)	Various sources	Population			Q .
Aged 15+ employment rate (%)	International Labour Organization	Work	Employment rate	3	€ .

https://www.gapminder.org/data/

eurostat

Your key to European statistics

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Statistics A - Z	DATABASE				
Population Census 2011					
Experimental statistics	🖻 左 Data	Navigation Tree			
Bulk download		tabase by themes			
Web Services		General and regional statistics			
SDMX Web Services		Economy and finance			
Json and Unicode Web	A	Population and social conditions			
Access to microdata		Industry, trade and services Agriculture, forestry and fisheries			
		International trade			
GISCO:Geographical Info and maps		Transport			
▲Metadata		Environment and energy			
ESS Reference Metada		Science, technology, digital society			
Reporting Standards		bles by themes			

http://ec.europa.eu/eurostat/data/database



Flourish Data Visualization

Skills Assessment

Getting Started With Flourish

🔲 🌋 Flourish Data Visu	ualisation & St × +								-	O
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F	'lourish ^{**}				0	Gretche	n Beas	ley		
	The Flourish editor will b	e down for maintenance from 10:00:00 PM Monday, 2022 (America/New_York) for 60 minutes. <u>Read n</u>								
	DEERS My projects Add new folder All projects	My projects								
			It looks like you haven't made a project yet							
Da			Step 1 Close tour Welcome to Flourish!							
Al			This is how you make a visualization. You can add your own data and customize the styles and settings.							
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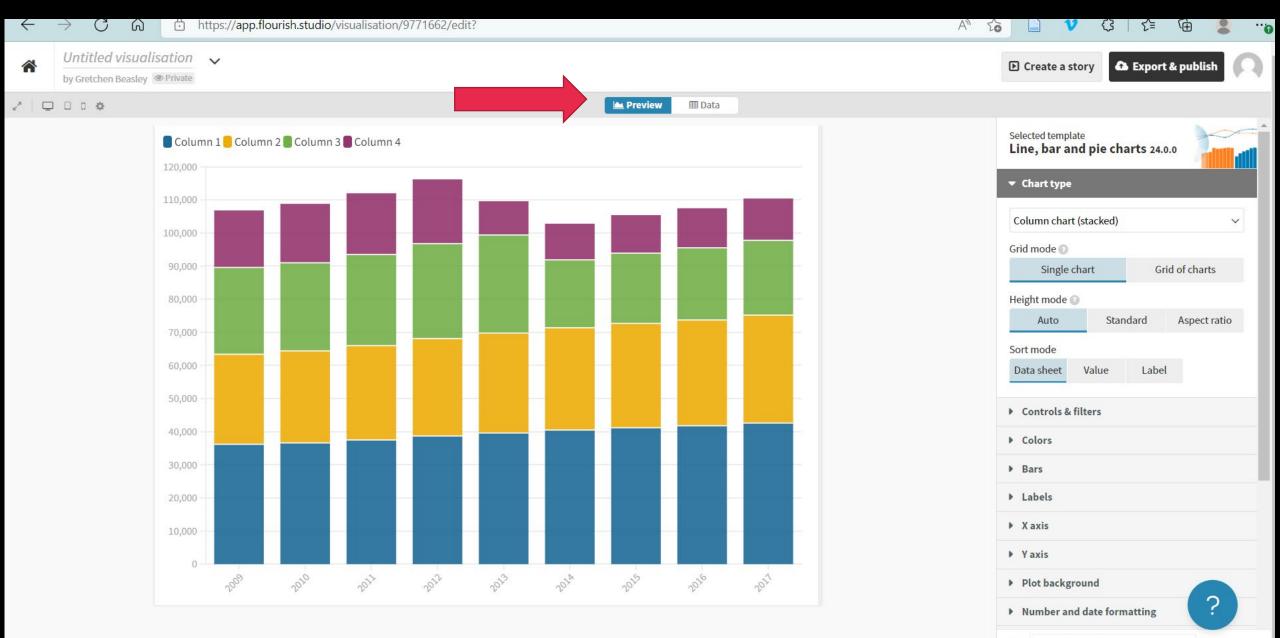
• To get started, head to the <u>Flourish website</u> and create an account.

Getting the Data

Detroit Police Department Citizen Complaints: 2016-April 2019 data set.

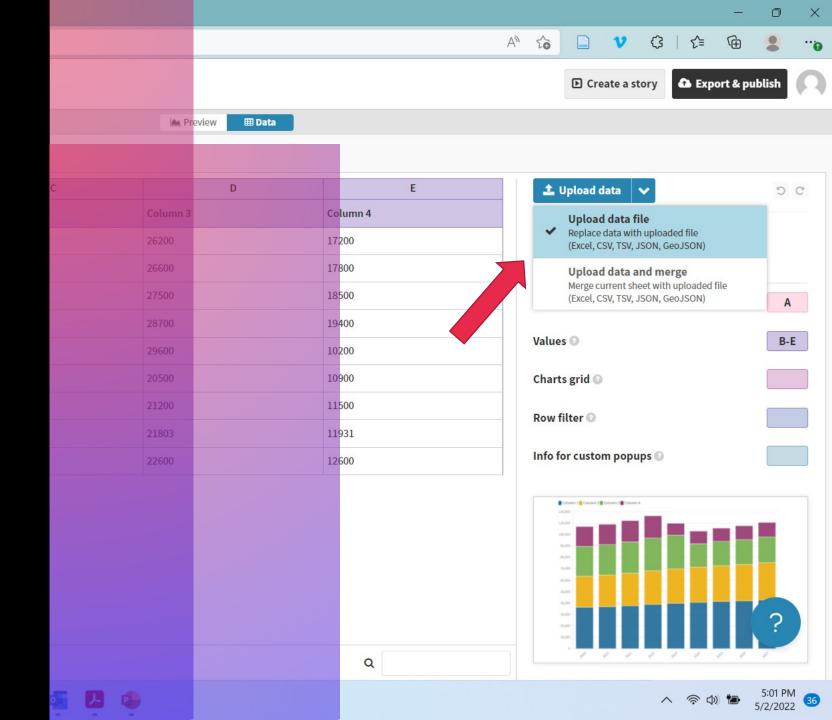
Creating Basic Visualizations and Importing Data

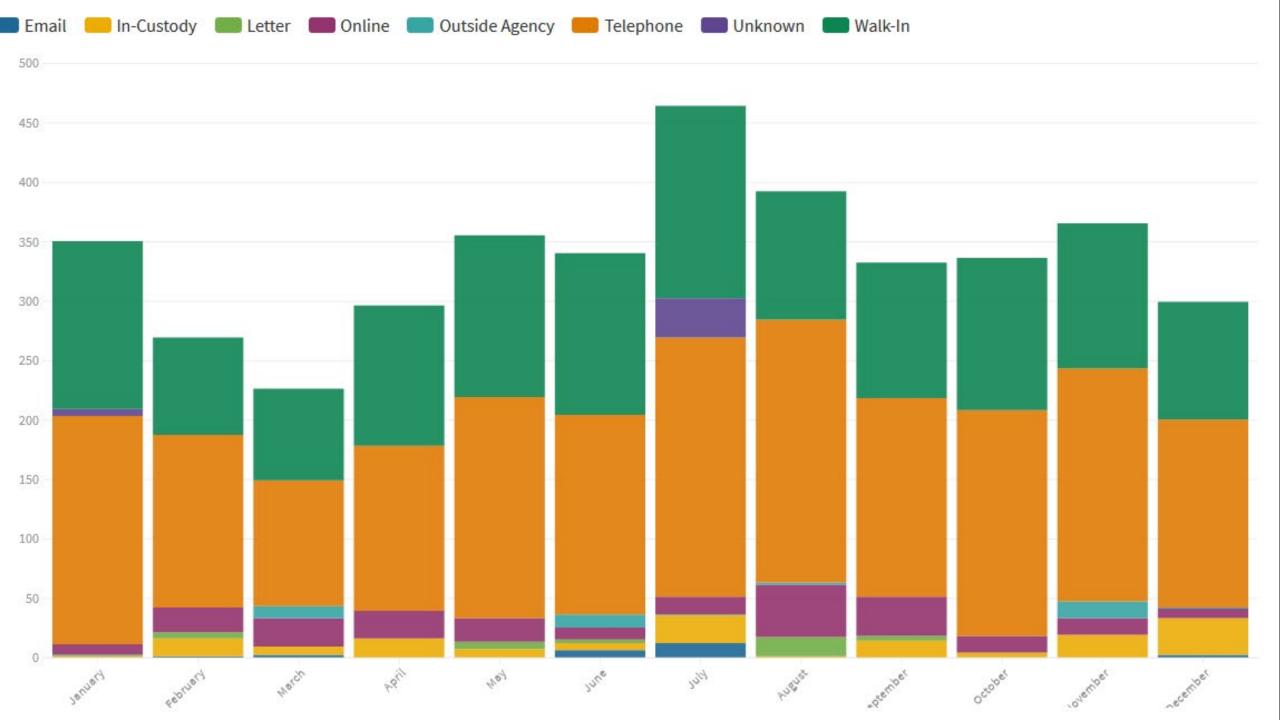




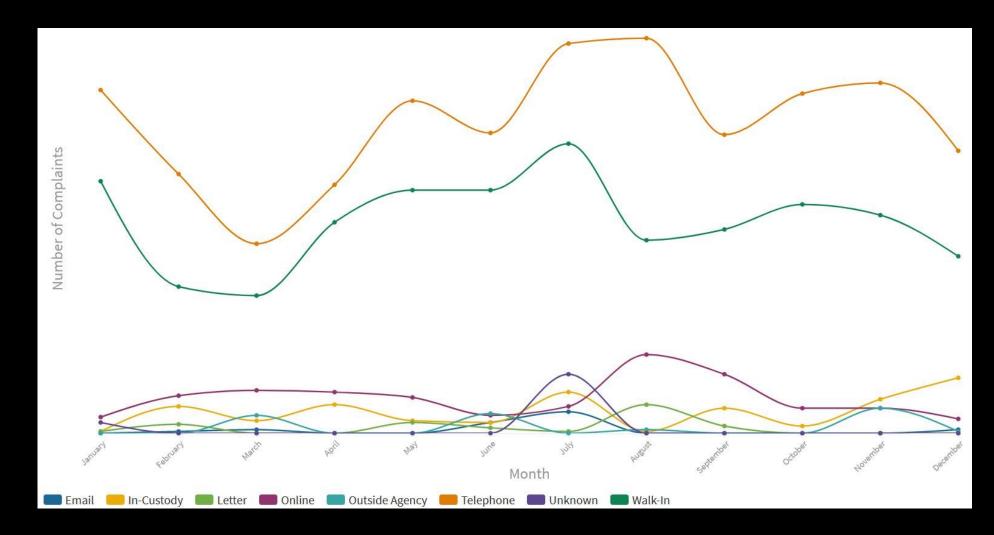
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3	2010		36600	27800	26600	17800	SELE	ест со	LUMNS T	O VISUAL	ISE.			
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Uploading Data

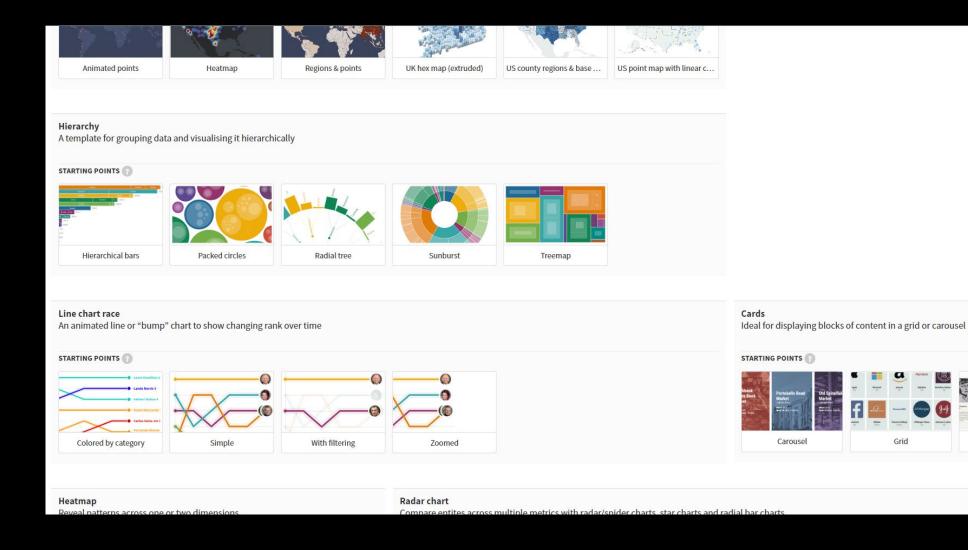




Other Visualizations



Hierarchical Chart



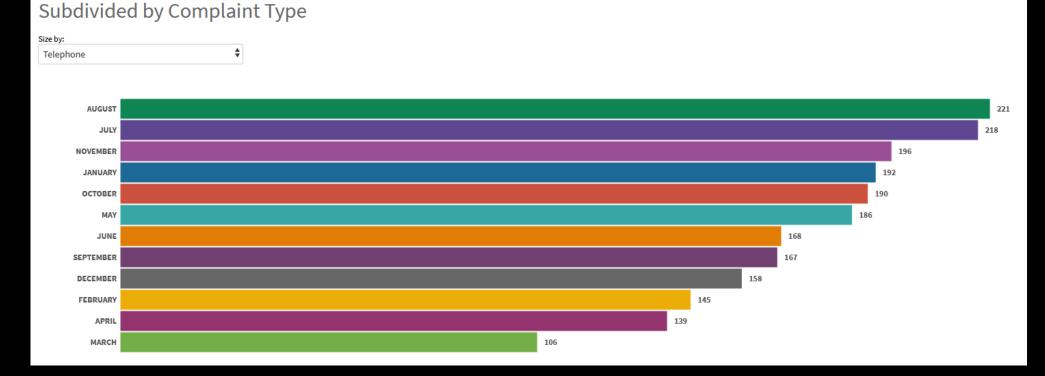
Profiles

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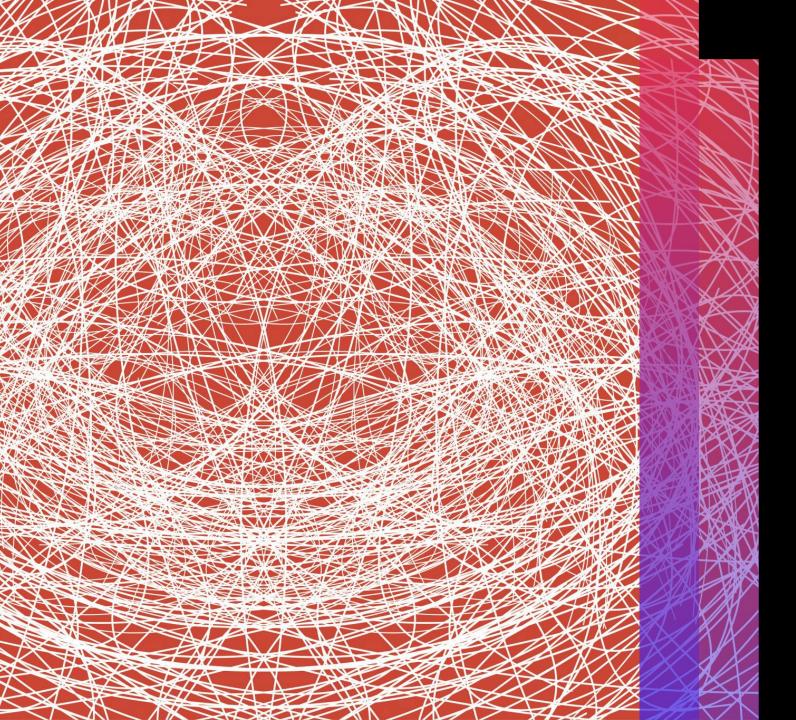
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1	Month	Email	In-Custody	Letter	Online	Outside Agency	Telephone	Unknown	Walk-In	Fill in the column id you want to visualise. Ad multiple columns with a comma or hyphen (e	
2	January	0	1	1	9	0	192	6	141	A-C)	
3	February	1	15	5	21	0	145	0	82	Dete	
4	March	2	7	0	24	10	106	0	77	Data	Data 🗸
5	April	0	16	0	23	0	139	0	118	Nesting	A
6	Мау	0	7	6	20	0	186	0	136	Choose categorical columns to nest by (e.g. Lead Studio, Genre).	
7	June	6	6	3	10	11	168	0	136	Size by	B-I
8	July	12	23	1	15	0	218	33	162	(Optional) Choose numeric columns to size by (e.g. Worldwide Gross). If more	
9	August	0	1	16	44	2	221	0	108	than 1 is chosen, a dropdown will appear in the visualisation which lets the user choose. Rows with negative values are	
10	September	0	14	4	33	0	167	0	114	excluded.	
11	October	0	4	0	14	0	190	0	128	Filter	
12	November	0	19	0	14	14	196	0	122	(Optional) Choose categorical columns to filter by. A dropdown will appear in the visualisation.	
13	December	2	31	0	8	1	158	0	99	ule visualisation.	

Hierarchical Chart

Total Detroit Police Department Complaints

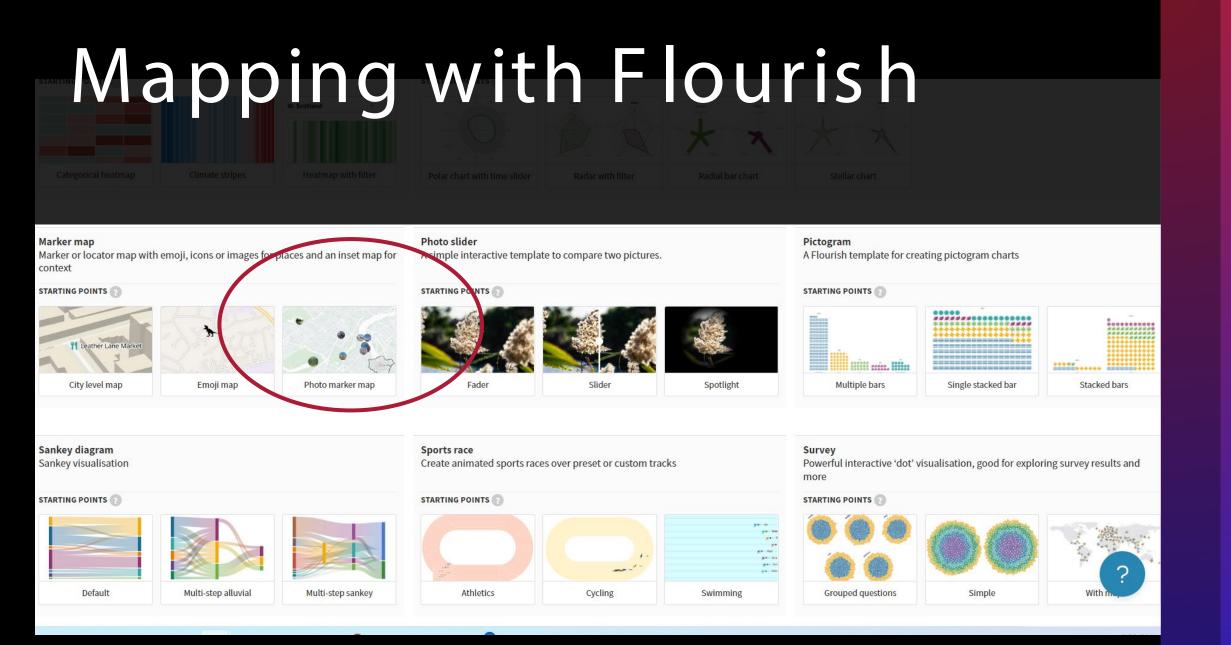


Hierarchical Chart



Mapping with Flourish

 For this final activity, we'll be working with two new data sets—the <u>'Detroit PD Motor</u>
 <u>Vehicle Arrests 2017-19.xlsx</u>' file and the <u>'Detroit PD Dataset</u>
 <u>Categories.xlsx</u>' file—to create a marker map.



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2	Big Ben	51.5007	-0.1246	https://public.flourish.studio/uploads/f1d19f2e-1f4c-47fa-968c-f6facc8b79bc.png	E	Locations	
3	Palace of Westminster	51.4995	-0.1248	https://public.flourish.studio/uploads/14269248-3f5d-4d24-a534-eb95051ffb36.png	5	SELECT COLUMNS TO VISUALISE	
4	Westminster Abbey	51.4993	-0.1273	https://public.flourish.studio/uploads/79aad662-bfd1-4bb4-b431-ebe86f974c16.png	1		в
5	London Eye	51.503399	-0.119519	https://public.flourish.studio/uploads/202c4a21-6c82-41be-9630-713ab14a1039.png			
6	Tower of London	51.508530	-0.076132	https://public.flourish.studio/uploads/8d753229-12c3-4859-bbb1-6a5c4f4a37b7.png	0.3		С
7	Buckingham Palace	51.501476	-0.140634	https://public.flourish.studio/uploads/ca288297-4456-4c3c-ab9d-03d70637bca4.png	0.3	Marker 🕑	D
8	Trafalgar Square	51.504831314	-0.123499506	https://public.flourish.studio/uploads/6e06e1a3-635a-4276-9338-6924d63220f4.png		Name 🖸	A
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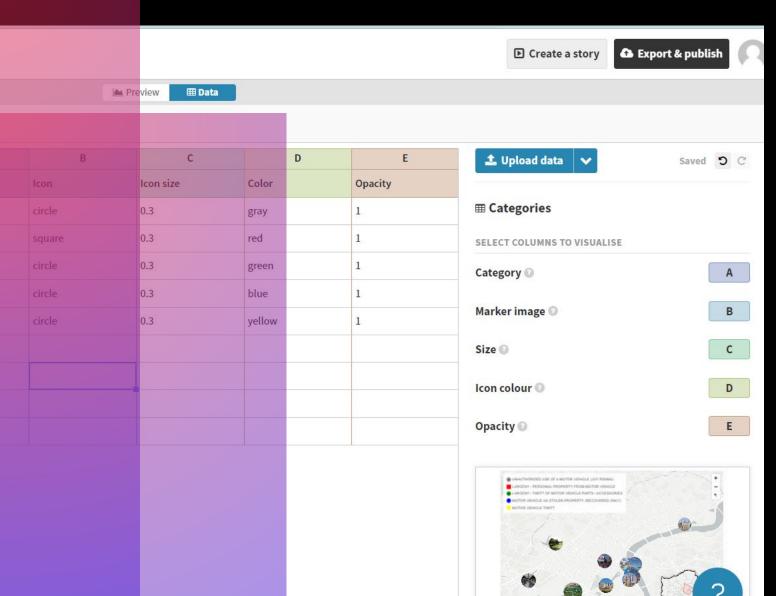
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Mapping

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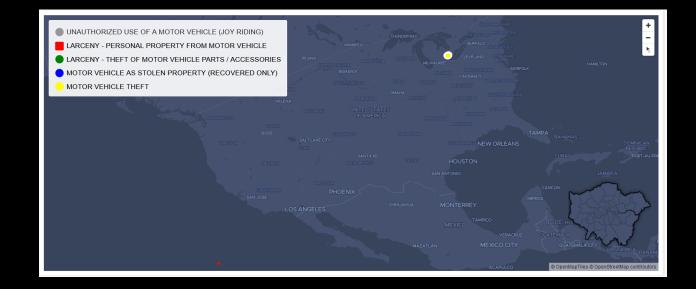


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Mapping with Flourish – Pop-ups

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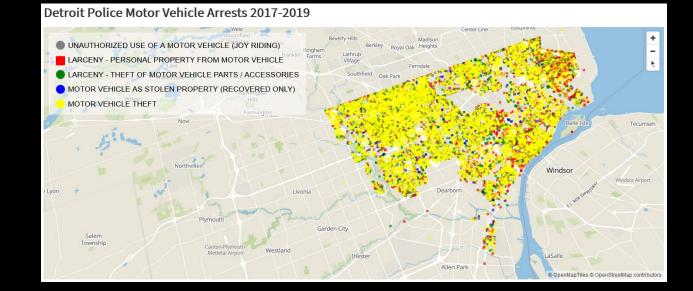


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1523	9200 block of GRATIOT AVE		LARCENY - PERSONAL PR VEHICLE	OPERTY FROM MOTOR	LARCENY	LARCENY - PERSONAL PROPERTY FROM MOTOR VEHICLE		Latitude REQUIRED	1
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1527	17300 block of HUNTINGTO	N RD	LARCENY - PERSONAL PR VEHICLE	OPERTY FROM MOTOR	LARCENY	LARCENY - PERSONAL PROPERTY FROM MOTOR VEHICLE		Name 😡	Α
1528	19400 block of LENORE AVE		LARCENY - PERSONAL PR VEHICLE	OPERTY FROM MOTOR	LARCENY	LARCENY - PERSONAL PROPERTY FROM MOTOR VEHICLE		Description 💿	
1529	Corner of ORLEANS ST and	E LAFAYETTE ST	LARCENY - PERSONAL PR VEHICLE	OPERTY FROM MOTOR	LARCENY	LARCENY - PERSONAL PROPERTY FROM MOTOR VEHICLE		DL-t- O	
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Customizing the Display

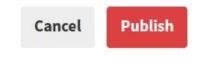
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Publish this visualisation?

This project will be published to its own page where you and others can see, share and embed it

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Exporting Your Visualization

Additional Resources

Although we've explored a few types of visualizations, Flourish Studio offers many more alternative and advance visualizations not covered in this tutorial. For more information on specific visualizations and features, visit the Flourish <u>help page</u> and <u>blog</u>. For inspiration for your visualizations, also be sure to visit Flourish's <u>examples gallery</u> and <u>Twitter profile</u>.

Lastly, always feel free to reach out to me with any questions. Happy visualizing!

Housekeeping

- Look through the data sets and see if you can find any that looks interesting to experiment with (I do give options in your Skills Assessment if you cannot find your own in our Spatial Data Resources.
- We will work in Google's Flourish. Here is the Skills Assessment Assignment:
 - http://gebeasley.org/DH390/flourish-skills-assessment/
- Don't forget to continue with your other maps, as well as make sure your readings are done, so that you can incorporate them in your final blog post.