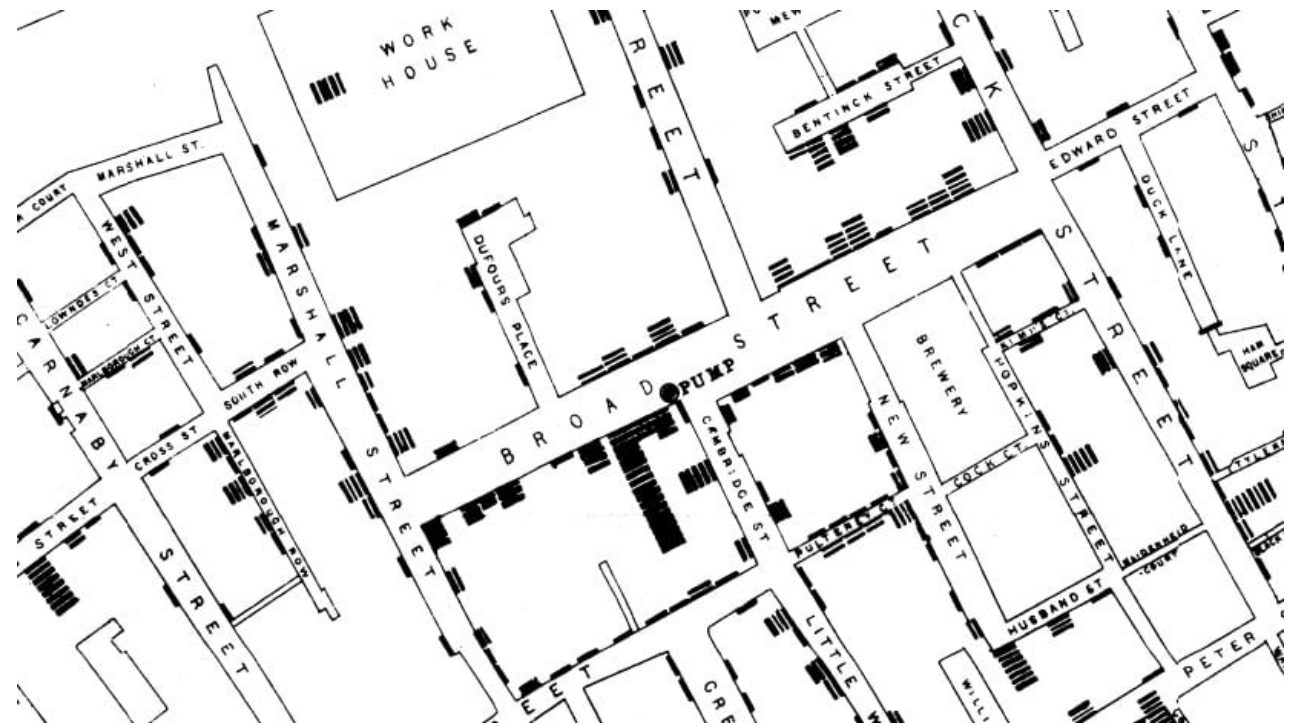
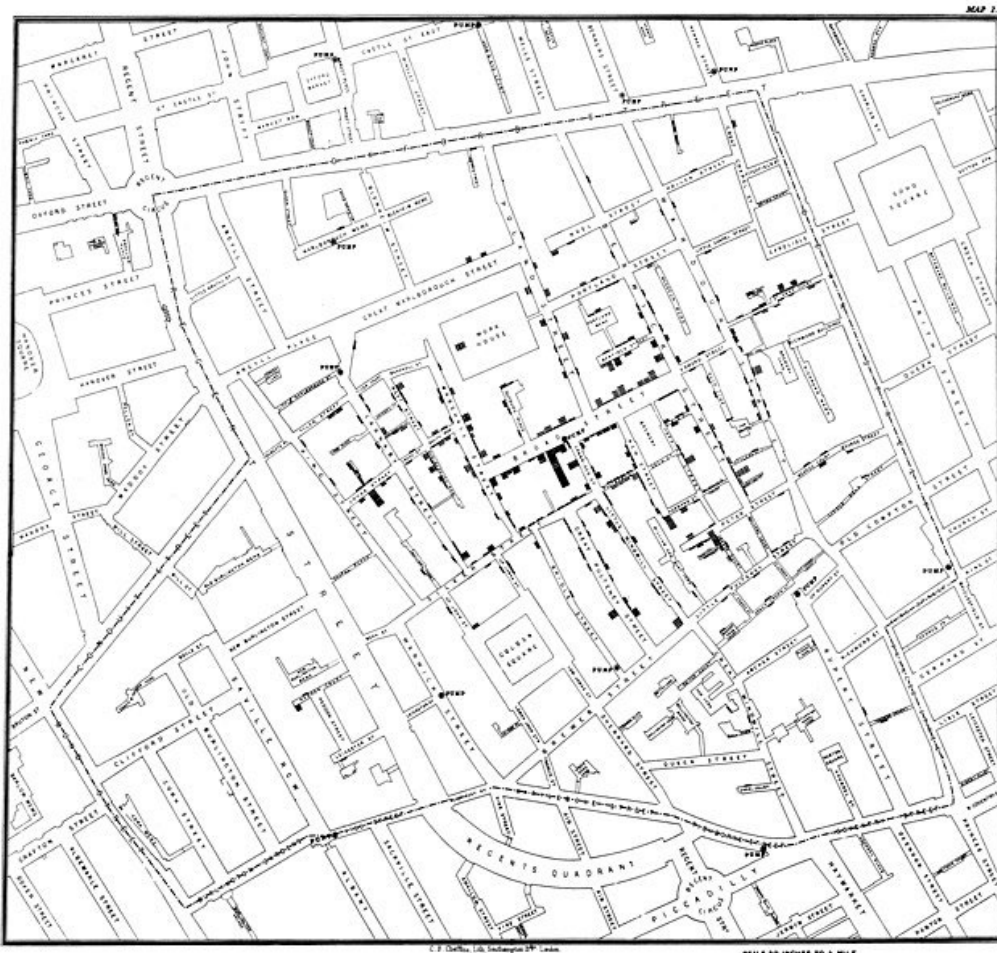


Effective Visualization II

Lab 5

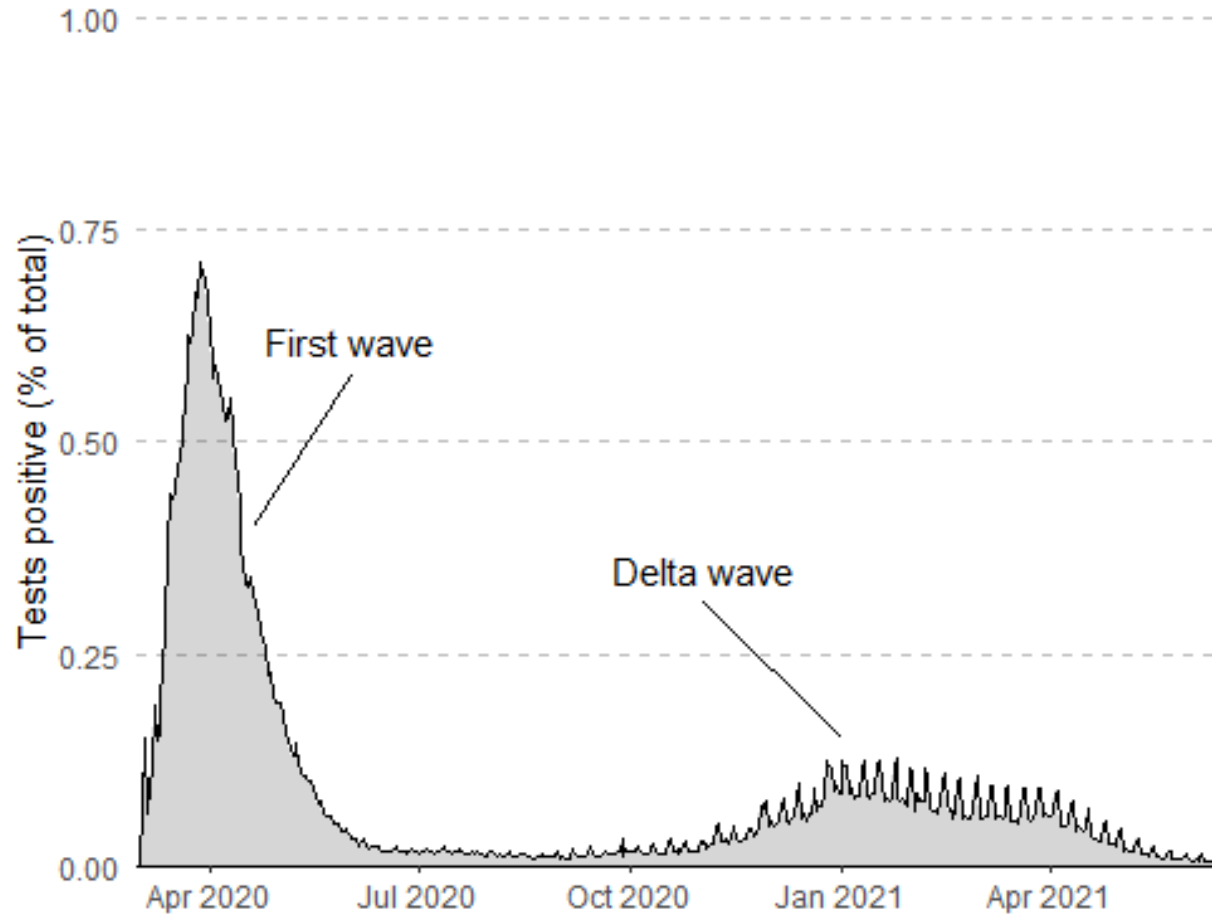


John Snow ~1854

Agenda

- Raster & vector images, image resolution
- Thinking about maps and where to get them
- exporting figures from R
- ggmap intro
- other map sources, shapefiles

NYC COVID case rates



NYC COVID case rates

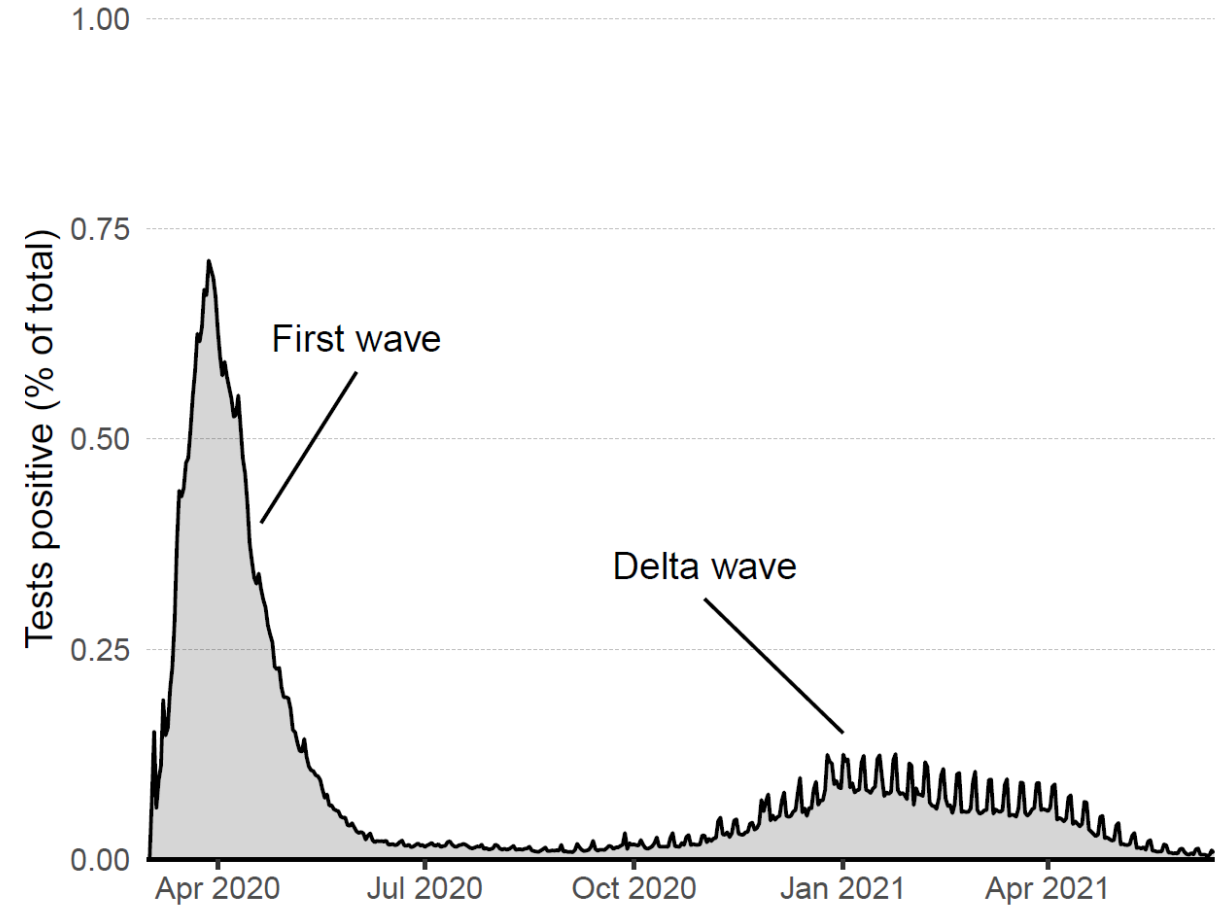
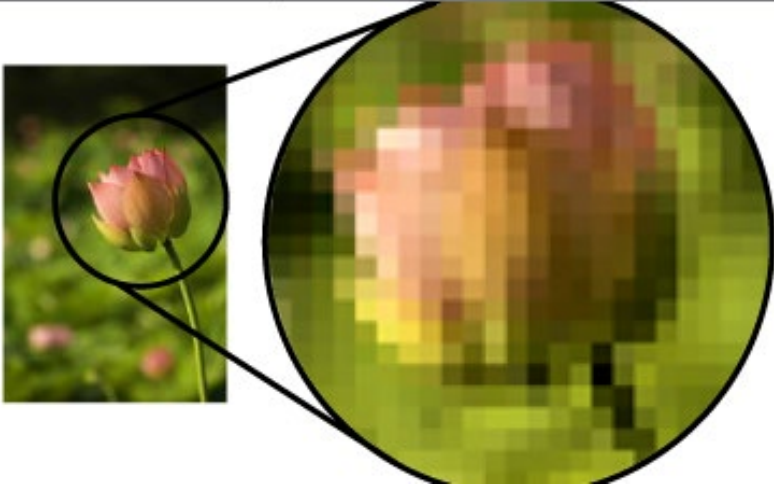
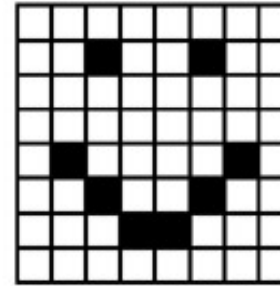


Image formats

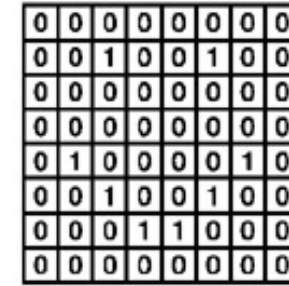
graphic made of pixels



graphic made of vector objects



Picture



Bitmap

Raster

.bmp

.png

.jpg

.tiff

Vector

.svg

.eps

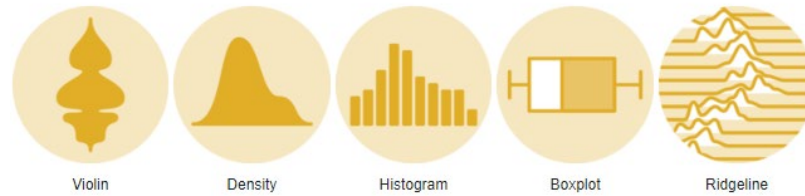
.pdf

Image editing software

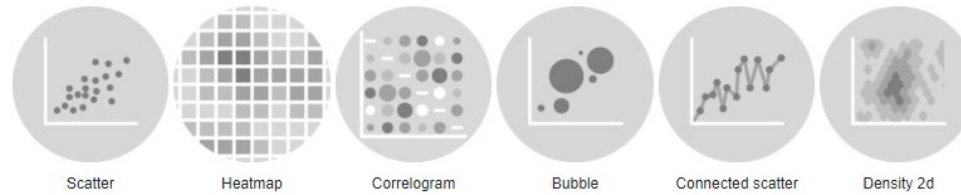
	Platform	Price model
Raster images		
Adobe Photoshop	Windows, Mac	Two limbs
GIMP	Windows, Mac	Free
Vector Images		
Adobe Illustrator	Windows, Mac	Your first-born child
Affinity Designer	Windows, Mac	\$70 one-time
Inkscape	Windows, Mac	Free
Figma (?)	Web-based	Free (with upgrades for \$)
Canva (?)	Web-based	Free (with upgrades for \$)

R graph gallery

Distribution



Correlation



Ranking



R graph gallery





Rihanna ✓
@rihanna



devastating. 🤔 #Australia



👍 347K 2:49 AM - Jan 7, 2020



💬 79.3K people are talking about this



anthony_hearsey • Follow



Regarding False Information. This has occurred NOT because of this post, or my information being inaccurate. It has been Zucc'd because other people have shared this image with the caption "This is a NASA photograph". This image has been flagged as a result. Update - this is now being corrected, finally. Should be clear in a day or so... This is a 3D visualisation of the hotspots in Australia. NOT A PHOTO. Think of this as a graph. Also note this was created as an art piece

This is made from data from NASA's FIRMS (Satellite data regarding fires) between 05/12/19 - 05/01/20. These are all the areas which have been affected by bushfires.

<https://firms.modaps.eosdis.nasa.gov/>



27,469 likes

JANUARY 5

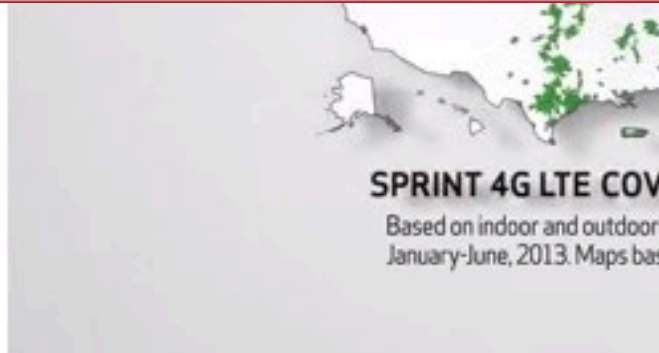
Add a comment...

Post



VERIZON 4G LTE COVERS OVER 96% OF AMERICANS

Verizon's 4G LTE service is available to more than 303 million people across 500 markets in the U.S.



SPRINT 4G LTE COVERAGE

Based on indoor and outdoor coverage
January-June, 2013. Maps based on data from the FCC.

AT&T now covers more than **99% of all Americans.**

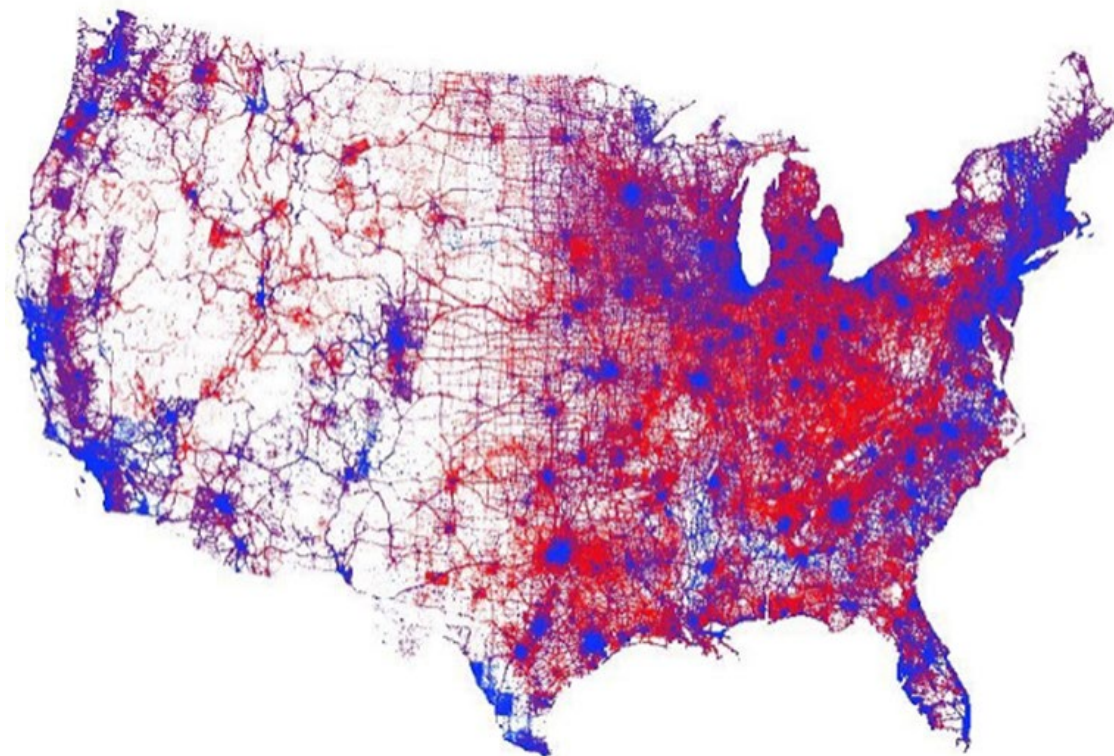


Claim based on coverage in U.S. licensed and roaming areas. Map displays approximate coverage. Compatible device required. Coverage not available everywhere.



12:05 PM · Oct 1, 2019 · [Twitter for iPhone](#)

62.2K Retweets **235.6K** Likes



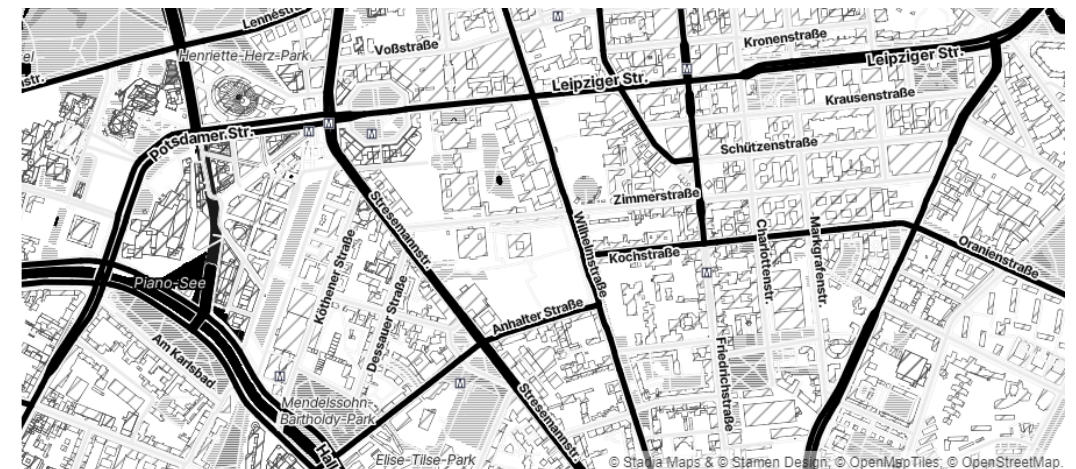
How to link this to a map?

AGE_GROUP	PERP_SEX	PERP_RACE	X_COORD_CD	Y_COORD_CD	Latitude	Longitude
18-24	M	BLACK	1057636	203954	40.72619	-73.73523
25-44	M	BLACK	1014340	171320	40.63687	-73.89159
25-44	M	WHITE	995244	155739	40.59415	-73.96041
18-24	M	BLACK	1009058	239616	40.82434	-73.91037
25-44	M	BLACK	1005169	246667	40.84370	-73.92440
25-44	M	BLACK	989013	192652	40.69547	-73.98283
18-24	M	WHITE HISPANIC	1028607	187930	40.68240	-73.84007
25-44	M	WHITE HISPANIC	1013232	236725	40.81639	-73.89530
25-44	M	BLACK	1057636	203954	40.72619	-73.73523
25-44	M	BLACK	1004347	220853	40.77285	-73.92744
25-44	M	WHITE HISPANIC	1000555	230994	40.80069	-73.94111

Need:

- Dataset with map coordinates (columns)
- Map source (have to outsource this)

Stadia Maps



Where to find shapefiles/map data

- [Emory University list](#)
- [RT Wilson's blog](#)
- Google *e.g.*
“Tennessee shapefile”

