What's new in GIS?

Randall Young, Geographer



What's the same old same old?

You still need data.



It still takes time and knowledge to use GIS.



Q: What data do you need?

A: Spatial data.

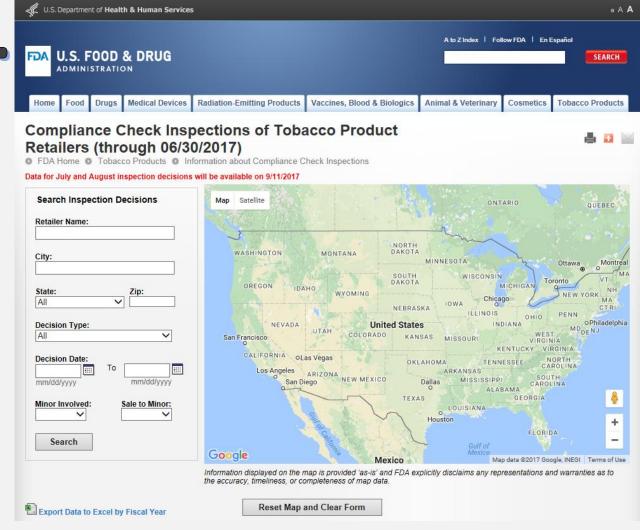
County identifiers

ZIP codes

Street addresses

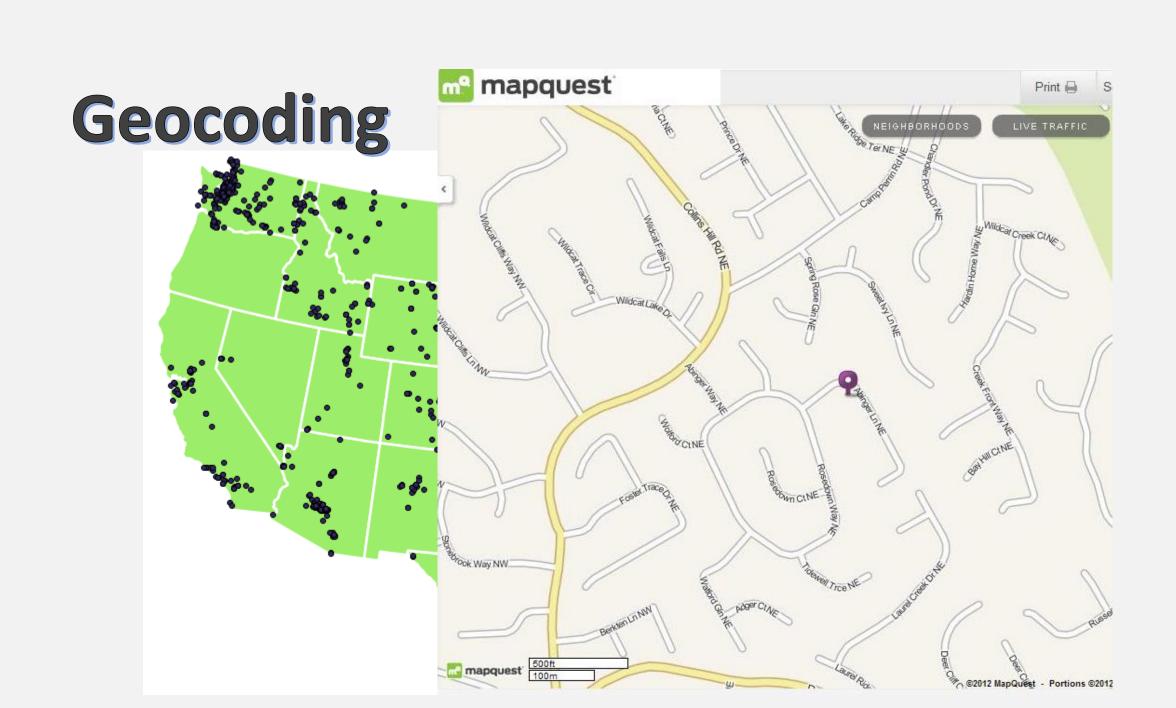
Latitude/Longitude coordinates

Census tracts



Spatial data!

Street Address	City	State	Zip	Decision Type	Minor Involved	Sale to Minor	Decision Date
211-01 JAMAICA AVE	QUEENS VILLAGE	NY	11428	No Violations Observed	Yes	No	6/30/2017
212 15 JAMAICA AVENU	QUEENS VILLAGE	NY	11428	No Violations Observed	Yes	No	6/30/2017
219 28 HILLSIDE AVE	QUEENS VILLAGE	NY	11427	No Violations Observed	Yes	No	6/30/2017
197?02 HILLSIDE AVE	QUEENS	NY	11423	No Violations Observed	Yes	No	6/30/2017
90?39 SPRINGFIELD BOU	LE QUEENS VILLAGE	NY	11428	No Violations Observed	Yes	No	6/30/2017
21917 HILLSIDE AVE	QUEENS VILLAGE	NY	11427	No Violations Observed	Yes	No	6/30/2017
21701 JAMAICA AVE	QUEENS VILLAGE	NY	11428	No Violations Observed	Yes	No	6/30/2017
184?27 JAMAICA AVE	QUEENS	NY	11423	No Violations Observed	Yes	No	6/30/2017



What's the same old same old?

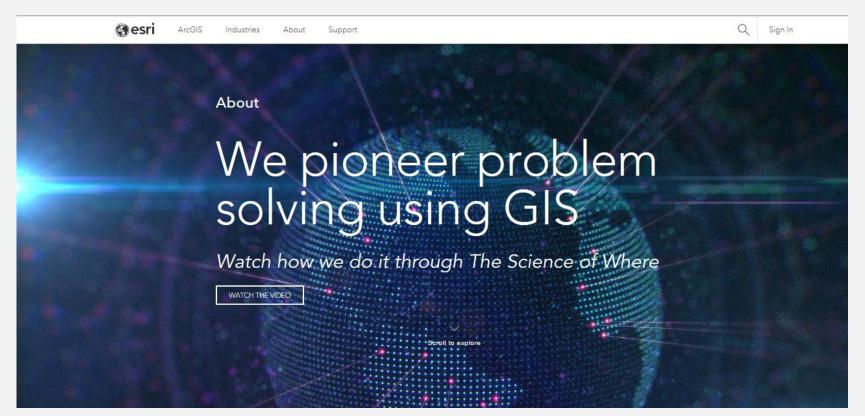
◆Census data
 ◆FIPS codes
 ◆JOIN operation

STATEFP10	COUNTYFP10	TRACTCE10	GEOID10	NAME10	NAMELSAD10
25	015	821300	25015821300	8213	Census Tract 8213
25	015	821100	25015821100	8211	Census Tract 8211
25	015	822401	25015822401	8224.01	Census Tract 8224.01
25	015	822300	25015822300	8223	Census Tract 8223
25	013	812002	25013812002	8120.02	Census Tract 8120.02
25	013	812001	25013812001	8120.01	Census Tract 8120.01
25	013	812104	25013812104	8121.04	Census Tract 8121.04
25	013	812101	25013812101	8121.01	Census Tract 8121.01
25	013	811900	25013811900	8119	Census Tract 8119
25	013	811800	25013811800	8118	Census Tract 8118
25	013	811700	25013811700	8117	Census Tract 8117

What's the same old same old?



ArcGIS (ESRI) is still the most often used GIS on the market. www.esri.com

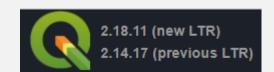


What's new in GIS?

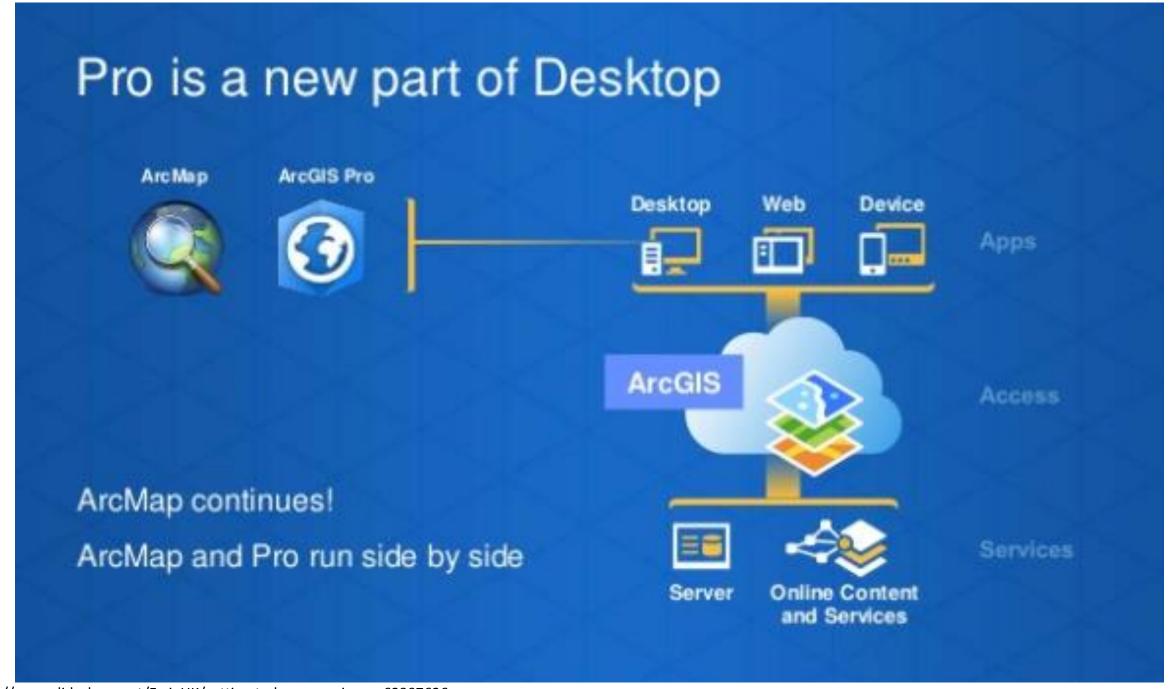


ESRI has introduced many new products

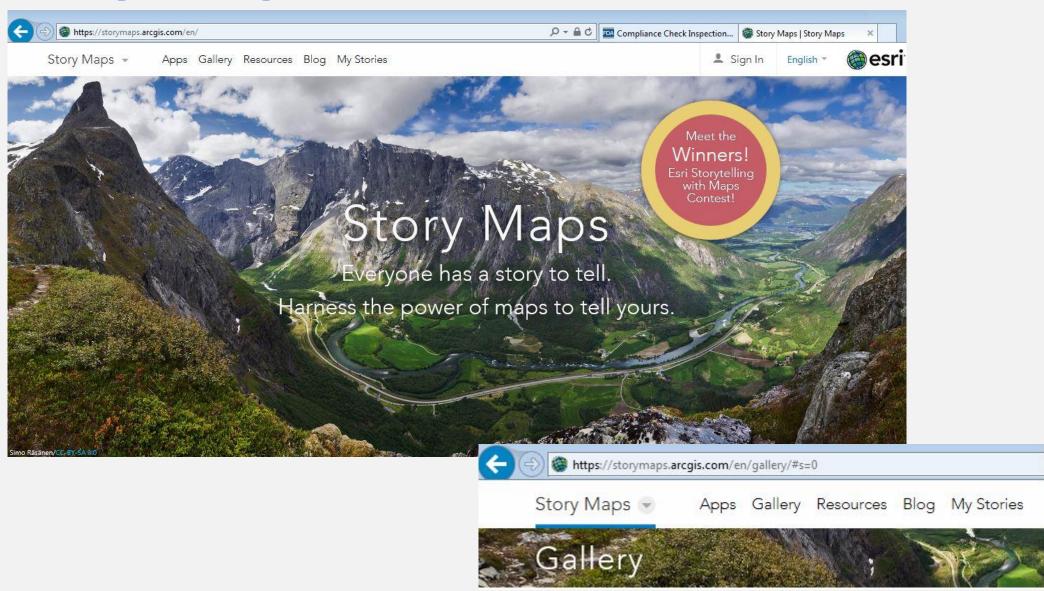




There are some great products not made by ESRI.



ESRI Story Maps



https://storymaps.arcgis.com/en/gallery/#s=0

Get Healthy Philly - July 2016

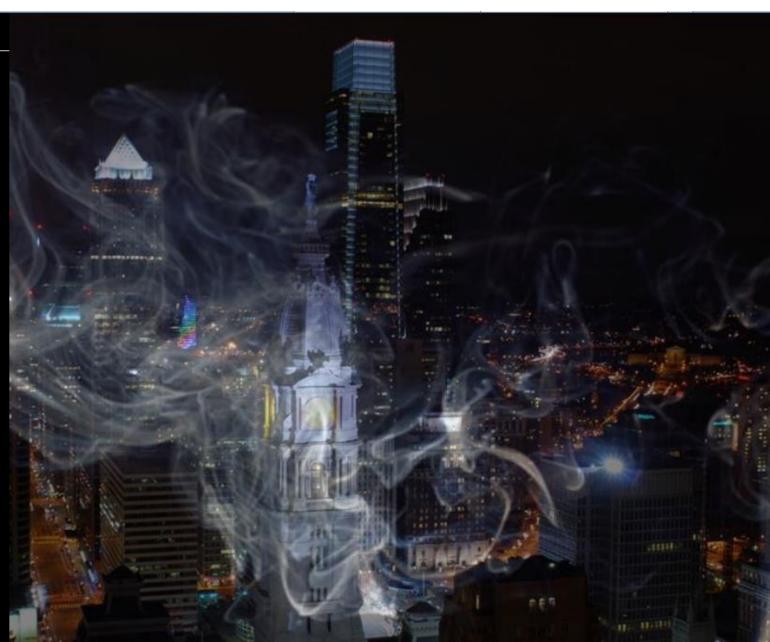


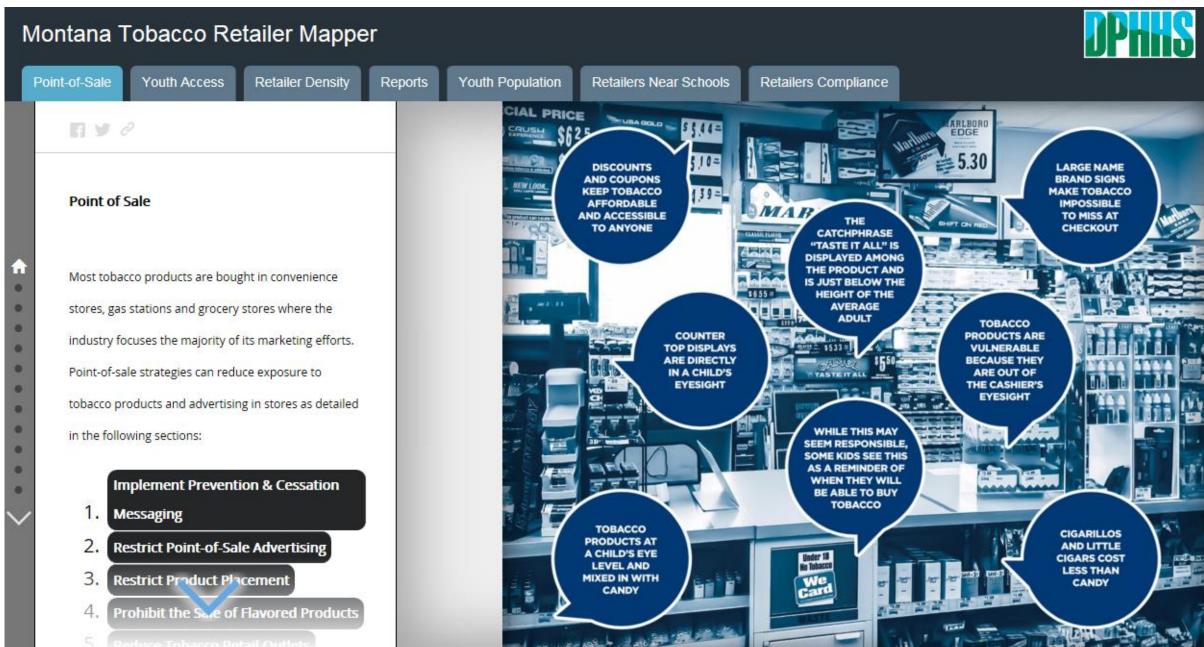


By Deadly Design: The Tobacco Industry in Your Neighborhood



Philadelphia has the highest adult smoking rate of the ten largest cities. In the United States, about 17% of adults smoke, but in Philadelphia it's about 23%. That's almost 1 in 4 Philadelphians lighting up. Every year in Philadelphia, smoking is responsible for the deaths of more than 2,000 people or about 53 SEPTA buses full. The large number of tobacco retailers helps to drive these numbers. Philadelphia has almost twice as many tobacco retailers per capita as other major cities.





STORY MAP TEMPLATES

A Sequence of Place-enabled Photos or Videos

A Rich Multimedia Narrative

Presenting a Series of Maps

A Dynamic Collection of Crowdsourced Photos

A Curated Set of Places of Interest

Comparing Two Maps

https://storymaps.arcgis.com/en/app-list/

welcome то Map Journal Builder

Which layout do you want to use?

Output

Description:



Side Panel

A layout for a text intensive story that excels at combining your photos, videos, and maps in a clear focused message.

VIEW A LIVE EXAMPLE



Floating Panel

A layout that puts your cartography in focus while allowing a transparent short form text panel to help tell the story.

VIEW A LIVE EXAMPLE

START

An alternative to ESRI Story Maps



https://www.minnpost.com/stroll/2014/06/hockey-hip-hop-and-other-green-line-highlights Minneapolis MinnPost photo by Andy Sturdevant **West Bank** Alley between Acadia Café and Bailey Building



A Free and Open Source Geographic Information System



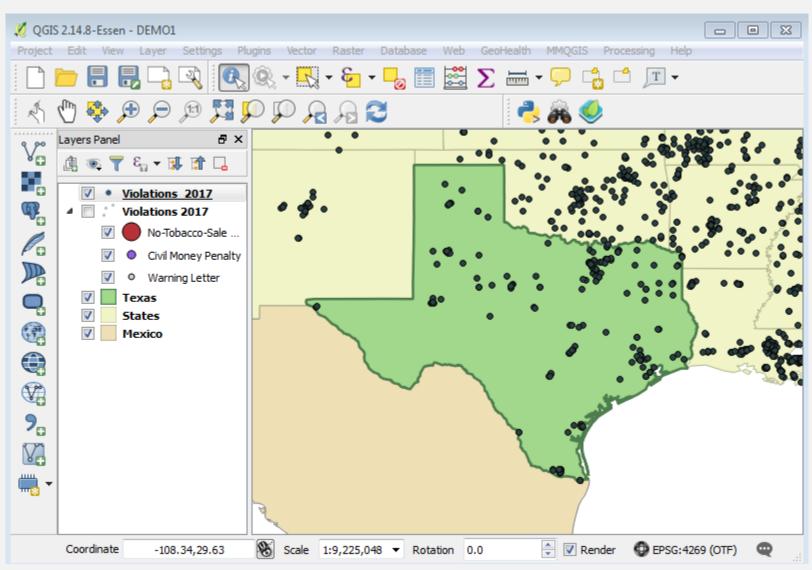
The Most Epic GIS Software Battle in GIS History

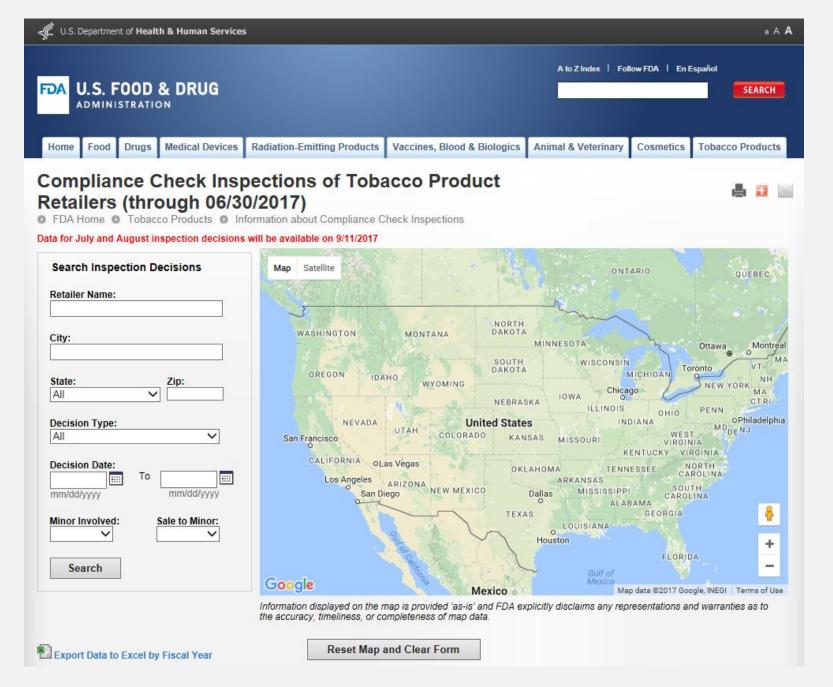


http://gisgeography.com/qgis-arcgis-differences/

http://monde-geospatial.com/arcgis-vs-qgis-10-most-important-differences-between-arcgis-and-qgis/

QGIS demo





https://www.accessdata.fda.gov/scripts/oce/inspections/oce_insp_searching.cfm

qgis2web plugin

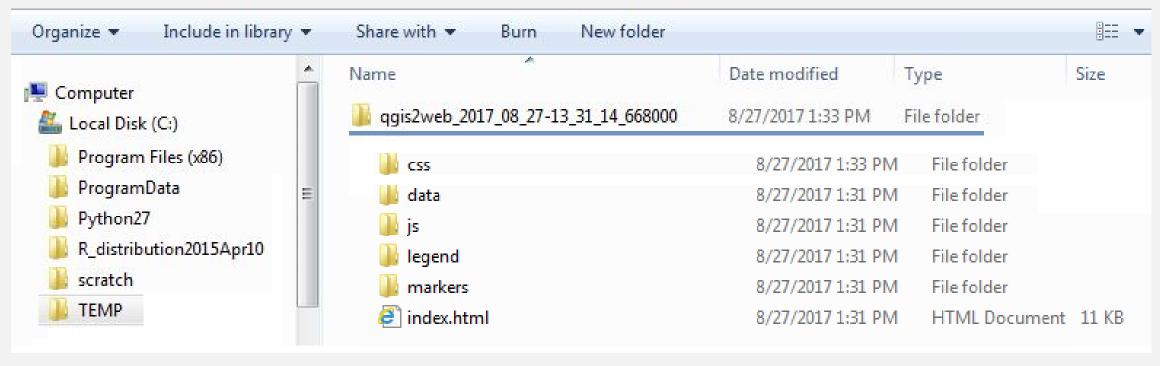


an open-source JavaScript library for mobile-friendly interactive maps

Overview Tutorials Docs Download Plugins Blog

http://leafletjs.com/

Output from qgis2web plugin



Total space ~ 1 Mb

Overview of the process

- 1. Downloaded the data from the FDA website (CSV format).
- 2. Geocoded the address list using the Centrus geocoder (Pitney Bowes).
- 3. Converted LATITUDE/LONGITUDE coordinates into a point layer (shapefile).
- 4. Added base layers such as states, Mexico etc. to QGIS.
- 5. Symbolized all the layers to my liking.
- 6. Got rid of some extemporaneous fields.
- 7. Ran the Create Web Map tool in QGIS.
- 8. Tweaked some of the javascript code.

Need ideas?

https://www.cdc.gov/dhdsp/maps/gisx/index.html

Chronic Disease GIS Exchange





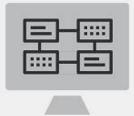
Online Forum for Sharing Maps and Resources for Chronic Disease Prevention

Map Gallery



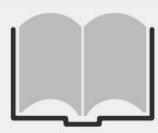
View an evolving series of maps designed to address chronic diseases, and submit your own map to the gallery.

GIS Resources



Explore an expansive set of GIS resources, blogs, tools, online mapping websites, and more.

GIS Training



Tutorials designed for novice to advanced GIS users working in chronic disease.

Thank you!

Questions ?