online mapping with google maps

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basic things in regular google maps

- ◇https://maps.google.com/maps
- 'rutgers camden'
- obut can do polygons, too: '08102', 'university city, pa', etc
- ◇can do lat/long: http://www.learner.org/jnorth/images/ graphics/mclass/Lat_Long.gif
- $\cdot\,'38.8977$ N, 77.0366 W' or '38.8977 , -77.0366'
- we'll be loading kml, which is just a bunch of coordinates
- obtw, if you have lat/lon for points: can map it in qgis
- · import delimited

http://www.qgistutorials.com/en/docs/importing_spreadsheets_csv.html

timeline: let's do sth creepy!

oas you imagine, google records your location

- the good thing is that they share it with you :)
- ◇google.com/maps
- \cdot click burger menu (3 horizontal lines on the left)
- ·click 'Your timeline'
- $\cdot\,\text{can}$ browse it by date, etc
- $\cdot\, \text{at}$ the bottom right click cog icon and
- · 'Download a copy of all your data' [kml or json]

generate map (your own gis data!) in google maps

- othis is actually made for generating your own gis data ◊zoom in on Camden NJ–can just search it search box ♦ select placemark from the top and put onto R and mark 'R' oand put placemark on patco station and call 'patco' ◊and connect them: 'Draw a line' tool: 'Add walking route' ◇'Add layer' from left menu (need new layer for poly) · 'Draw a line': 'Add line or shape'
- and put a polygon on parking lot (just draw line around it)
 (pop up acres; also can click walking route for distance!)
 make sure each layer has a different meaningful name
 create data!: have your students mark stuff, eg drug dealing
 now can save it as kml

kml

◊another vector format

- \cdot just one file as opposed to shapefiles
- ◇click main menu (three vertical dots at the top-left):
- · 'Export to KML/KMZ' and it will save it as KMZ (KML zipped)
- load this KMZ to qgis as any vector layer
- · make sure you click 'Select All' !
- ◊and viola! we have it in qgis
- · add OpenLayers basemap to put it in context

the other way round: from qgis to goog

- ◊our fav nj counties
- ofirst make it smaller so it loads faster
- Vector-Geometry Tools-Simplify Geometries: tolerance: 1k
- \cdot (as a rule simplify all data before online display)
- ·map POPDEN2010, 3 quantiles RdYIGr
- · important: make transparency from under Symbol, like 50%
- MMQGIS-Import/Export-Google Maps KML Export
- · Description Separator: Field Names

upload to google.com/mymaps

oat top-left click 'Import' or 'Add Layer' and 'Import'

- $\cdot\, note$ that can adjust Base map at the bottom
- ·whiteish is better-easier to see symbology :)
- ◊ "Share" at top left:
- use for collaboration-eg enable editing for those with link
 > top menu: "Embed on your website"
- \cdot then can add other info, like jpg of legend from qgis!

why online maps?

- · great tool for collaborative mapping!
- ◇can even have your own business/service/app/etc
- ·just display sth interesting on the top of a google map
 >eg http://www.trulia.com
- sounds impossible? look what Straso did:
 - http://cure-cncs.camden.rutgers.edu/
- oanother local example: http://camden-data.org/#body

student presentations

◇Kristin/Michelle, Shauna, Richard◇Q&A