qgis1

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VisionZ; very useful!; do watch them! (qgis2 not 3) • the whole thing https://www.youtube.com/watch?v=

• the whole thing https://www.youtube.com/watch?v= KjvFil3o4y8&list=PLNCPalajQvg7wQvzf3fM8f0Z5lMK186Q4

01 - open and view data

https://www.youtube.com/watch?v=KjvFil3o4y8&list= PLNCPalajQvg7wQvzf3fM8f0Z5lMKl86Q4&index=1

• 04 - Working with attributes

https://www.youtube.com/watch?v=G6UeiGg2Cp8&list=PLNCPalajQvg7wQvzf3fM8f0Z51MK186Q4&index=4

• 07 - Basic vector styling
https://www.youtube.com/watch?v=b-OMQ7dnVJk&index=7&
list=PLNCPalajQvg7wQvzf3fM8f0Z51MK186Q4

•03 - print composer

https://www.youtube.com/watch?v=YnqbC1hkfnk&list=

 ${\tt PLNCPalajQvg7wQvzf3fM8f0Z51MK186Q4\&index=3}$

other references

- http://www.youtube.com/results?search_query=qgis not sure, any of these useful in particular? email listserv
- pretty good and comprehensive; in-depth but easy to navigate reference http://www.qgistutorials.com/en/
- OQGIS FAQ
 http://hub.qgis.org/projects/quantum-gis/wiki/How_do_I_do_that_in_QGIS
- if you find something really good and email listserv, extra credit

first thing: find data

- o reliable?: always think how reliable is the source
- trust the govt, "major companies", universities, etc
- say US states; where do i get it?
- google "US states shapefile"
- or go to census: useful, all adm boundaries!
- ohttps:
 - //www.census.gov/cgi-bin/geo/shapefiles/index.php
- eg 2016-States (and equivalent)-Submit
- o and save somewhere on hard drive

saving and unzipping

- ogo to where you downloaded it in file explorer and unzip
- oeg right click and "Extract Here"
- o you'll see a bunch of files-they key one is .shp
- o keep them all with same name in same location—otherwhise it won't work!

adding data

- click first icon on second toolbar "3 squares with +"
- oto open Data Source Manager
- o and click first icon on the left toolbar "line with nodes" for vector data
- o ("checkboard" is for raster/pictures (later))
- o and we got the map in the middle
- oit also appears in Layers panel on the left
- NOTE: can also specify zipped folder
- OR even grab it from file explorer and drop into map window of qgis
- obut sometimes have to unzip/extract first!
- o and it shows you what's inside

zooming, identifying

- ograb it and move around with "hand" pointer
- can zoom in and out.
- o either click the map with appropriate tool
- obetter yet, draw a rectangle to achieve appropriate zoom
- once zoomed in, let's identify features
- select tool "arrow with 'i"' -'i' for info/identify
- click on some polygon, say TX and it'll pop up information
- a useful thing is to right click on layer and do "zoom to layer"

underlying data

- there is always a table (database) underlying a map
- right-click on the layer in left panel ,or from top menu:Layer:
- o "Open Attribute Table"
- now, let's make a selection: highlight some rows in the table
- or do it in the map: "arrow with rectangle": Select Features by Area or single click

 —either click or draw a rectangle
- o to deselect use "rectangle with 'no' sign"

loading more data

- download https://docs.google.com/uc?id=
 1xJDhcRCkgv7k4tNCa72Oog5bohV6dTB2&export=download
- O(also at https: //www.nj.gov/dep/gis/digidownload/metadata/html/Govt_admin_municipal_bnd.html)
- o and drag over the zipped file into qgis map window
- omake sure select all layers to add
- there were 3 shapefiles inside and now have 3 additioonal layers

play around

- move layers up and down
- turn on the layers and off (check tick)
- right click and see the data (table)
- o remember i was saying there is always data under the map?

your first thematic map

- thematic maps are the key thing in this class (thematic.pdf)
- nj counties-Properties-Symbology and from drop-down: "Graduated"
- Column: "POP2010"
- Color ramp: can just leave Reds
- and hit "Classify" button
- many ways to do the classification: more soon
- oif you're curious—just poke around with classifications
- o easy to experiment and figure things out there
- and hit "OK" to see the map-viola!

export

- make sure map is centered:
- onj counties-Zoom to Layer
- Project-Import/Export-Export Map to PDF
- o (useful for presentation/high quality mapping)
- Project-Import/Export-Export Map to Image
- o(useful for ps to insert into word)
- NOTE: have nice resolution, but not too big, say ¡1mb, like 300dpi
- otherwhise you'll end up with unwieldy files that take forever to open