q1

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

- KjvFil3o4y8&list=PLNCPalajQvg7wQvzf3fM8f0Z51MK186Q4
 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-0MQ7dnVJk&index=
- 7&list=PLNCPalajQvg7wQvzf3fM8f0Z51MK186Q4

 03 print composer
 - https://www.youtube.com/watch?v=YnqbC1hkfnk&list= 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/
- http://www.qgistutorials.com/en/docs/teach_qgis.html
- Good howto, references
- Ohttp://hub.qgis.org/projects/quantum-gis/wiki/
- QGIS FAQ

http://hub.qgis.org/projects/quantum-gis/wiki/How_do_I_do_that_in_QGIS

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" and we get
- https://www.census.gov/geo/maps-data/data/ tiger-cart-boundary.html
- click 'State,' and get:
- https:
- //www.census.gov/geo/maps-data/data/cbf/cbf_state.html

saving and unzipping

- save link as 'cb_2016_us_state_20m.zip'
- o and save say into /Downloads/= Home Folder/Downloads
- then open that location using file explorer (file cabinet icon at bottom left):
- Home Folder/Downloads
- oright 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

- ullet click first icon on second toolbar "3 squares with +"
- oto open Data Source Manager
- and click first icon on the left toolbar "line with nodes" for vector data
- oand we got the map in the middle

o ("checkboard" is for raster/pictures (later))

- it also appears in Layers panel on the leftNOTE: can also grab zipped folder from file
- explorer/cabinet
 o and drop into map window of ggis
- but sometimes need 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

layer"

- 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
- oclick on some polygon, say TX and it'll pop up information
- a useful thing is to right click on layer and do "zoom to

underlying data

- there is always a table (database) underlying a map
- right-click on the layer in left panel ,or from top menu:
 Layer:
- "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

- click and Save File https://docs.google.com/uc?id=
 1xJDhcRCkgv7k4tNCa72Oog5bohV6dTB2&export=download
- $\circ\,\mbox{then}$ can just hit blue download arrow at top right in firefox
- and down a south a first file fate materials. To be

oclick folder to fire up file explorer

- oand drag over the zipped file into qgis map window
- 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
- if you're curious—just poke around with classificationseasy 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
- (useful for presentation/high quality mapping)
- Project-Import/Export-Export Map to Image
- (useful for ps to insert into word)
- NOTE: have nice resolution, but not too big, say ¡1mb
- otherwhise you'll end up with unwieldy files that take forever to open