wrap up and revision

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<u>outline</u>

raster

gis career

<u>outline</u>

raster

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got raster?

- we've done only vector data in this class
- · mostly shapefiles and kml
- there's also raster data
- ⋄raster=picture (+ coord to fit it on the map)
- ⋄we've skipped it because you can just use google maps
- · or OpenStreet map, etc (also within qgis)
- but sometimes pictures are better
- · higher resolution and/or over-time (old v new)

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nj example

- ♦ start with our favorite
- http://people.hmdc.harvard.edu/~akozaryn/myweb/bounds_
 nj_shp.zip
- ♦ load to ggis; and then see our favorite nj data website
- ♦https:
 - //njgin.state.nj.us/NJ_NJGINExplorer/DataDownloads.jsp
- oat the bottom, it has raster data that links to
- ♦ https://njgin.state.nj.us/NJ_NJGINExplorer/IW.jsp

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nj example

- ♦ 'Select Dataset to Download': NJ 1995 DOQQs
- zoom in to evesham township
- on the left check 'Select by Point'
- ♦ and it should show on the right this picture selected: CLEMENTON NJ NE #1162
- ♦ check it
- and at bottom-right click 'Add Items to Cart'
- then click checkout cart; click JPEG (just picture format)
- ♦ it should save; extract zipped folder

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load raster to qgis

- ofirst, make sure counties vector is loaded; then:
- · use a checkerboard icon on the left, below vector squiggle,
- · to load our raster: navigate to unzipped JPEG file
- onote that when you extracted zipped folder with JPEG,
- · there are also other files, like in shapefile case
- · these other files tell qgis where to put the picture on a map

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load google satellite

- ♦ say we want to compare mid 90s to now
- could get newer (and better resolution) images
- ♦ but can just load goog satellite to get more current image
- ♦(if needed install 'OpenLayers' plugin: Plugins-Manage And Install Plugins)
- and zoom in to evesham township, have raster on top of google
- · and turn on/off raster to see past/present

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past matters!

- omuch of present can be explained with past!
- it's also fun to look back into past
- · just like you look at your old pictures, look at the place
- ♦ aging http://twistedsifter.com/2013/10/ animations-show-how-faces-age-over-time/
- \$\langle\$ satellite images
 http://www.wired.com/2012/07/landsat-city-change/
- ◇landsat website http://landsat.gsfc.nasa.gov/?cat=4

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actual application

- think about research all the time
- including on the airplane
- ♦ and it struck me that there is so much concrete in TX
- can easily show it with satellite images [p 43]
- ♦http:

//people.hmdc.harvard.edu/~akozaryn/tmp/city_book.pdf

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often can actually see better!

- with satellite images or from an airplane
- ·can actually see better
- eg: most buildings and roads are build to trick you on the ground
- · nice look, but cheap, etc
- ·it's interesting to see how it actually looks like
- · from a different perspective, on satellite image

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<u>outline</u>

raster

gis career

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academia: assisting faculty

- most faculty want maps but lack gis skills
- this is where you come in
- ♦ ask faculty around if they need help with data
- odon't sell yourself cheap
- · ask to be a coauthor
- · make \$

postdoc/research institutes/think tanks etc

- many prestigious universities offer postdocs positions
- · often helping prestigious faculty with data
- money is not great
- · but you have all of the other benefits of academia
- same with research institutes
- ·they have a ton of data
- · and need people like you to map it

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non-academic, real world jobs

- ♦ any organization has data
- · libraries, gas stations, fire departments, hospitals, etc
- just search for gis jobs

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gis jobs

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♦ http://www.gisjobs.com/
♦ http://www.gisjobs.com/
♦ http://www.geographyjobs.com/GIS_Jobs.html
♦ https://www.gislounge.com/job-listing-sites-in-gis/
♦ http://www.mygisjobs.com/
♦ http://www.indeed.com/q-GIS-jobs.html
♦ (there are many more websites)
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general data science jobs

- ♦ http://web.ccsu.edu/datamining/jobs.htm
- ♦ http://www.kforce.com
- ♦ http://www.icrunchdata.com/
- ♦ http://www.cybercoders.com/
- (there are many more websites)

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class evaluations

- i very much care about this class
- and want to develop it further in the future
- · possibly have intro and advanced gis
- comments/suggestions are very welcomed!

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let's stay in touch

- ⋄i am always happy to discuss gis and
- · your future gis endavours
- ♦ let's stay in touch!

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