python plugins

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outline

python plugins

MMQGIS

QuickMapServices: OSM and others

qgis2web

workflow/saving and customizing

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get the plugins

- plugins-manage and install plugins
○ you can enable there lots of stuff–scroll down, there's some self-explanatory options
- experiment at home! many great tools there
- find sth awesome and present in class: extCre!

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the power

- arguably the most useful and comprehensive plugin of all
- we will use it a lot in this class; especially:
- MMQGIS-Combine-Attributes Join from CSV layer
- MMQGIS-Combine-Geocode CSV with Google / OpenStreetMap
- MMQGIS-Modify-Text to Float

outline

bringing basemap

- esp if you map at low level (neighb, city, county)
- you want some background (roads, parks etc)
  (eg as in google maps)
- you could do it step-by-step
- find roads layer, parks layer, etc
- lots of work !
- you can very easily bring all of that with a basemap

QuickMapServices plugin

- Plugins-Manage And Install Plugins
- and search for "QuickMapServices" and install it
- Web-QuickMapServices-OSM-OSM Standard
- and it appears on the left under layers
- move it as the last layer so that it does not cover your map
- and nj_counties-Layers-Properties: Fill, Simple Fill: Fill style: "No brush" so that the polygons have no fill
- again especially useful at low level: neighb, street, etc

Stamen

- QuickMapServices-Settings-More Services-Get contributed pack

- and really really nice are Stamen maps, say:

○ Terrain

○ Toner

OSM:OpenTopoMap

- as per satelite-like basemap layer which shows land use, i'd recommend OSM:OpenTopoMap

- it helps say when you want to figure out what is going on in specific area

others

- there are many

- names mostly selfexplanatory

- go through them and play around

- you can present on this and get extra credit!

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cleanup data first

- layer-attr table
- toggle editing-pen at top right
- del cols with del field tool
- (ctrl and left-click for multiple sel, or rectangle-select)
- just keep relavant info:
- county name
- and say pop90 and pop00
- Have Stamen Toner underneath :)

qgis2web

- install it; will appear under web, like openlayers
- Layers and Groups: check 'inline' for pop90,pop00
- Apperance:Add layers list: Expanded
- Export: Export folder change to where you can write
- opens automatically or open index.html with webbrowser
- can click feature to pop up attr table info :)
- https://www.qgistutorials.com/en/docs/web_mapping_with_qgis2web.html
- https://www.xyht.com/spatial-itgis/creating-a-web-map-using-qgis2web/

- https://www.sigterritoires.fr/index.php/en/

  how-to-export-your-qgis-project-to-an-html-page-in-two-clicks-the-qgis2web-pl

qgis2web

- howto share this?

  zip and email to people and ask them to unzip and open index.html with webbrowser

- the big use of that is that it's webpage ! :)

○ but need a webserver :(

○ see references from last slide–you can webhost that :)

○ or your organization, say county office or LAEDA etc will have IT person

○ send to her and ask to put online

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workflow

- save the whole project (with many layers) and next time just open it

○ (again, dont rename, move shapefiles around–it'd break things)

- can move layer up/down in layer window

○ and can turn it on and off

- can have many layers with say different symbology of the same shapefile

- example–let's load nj_counties and produce several different symbologies and save whole project...and open it

customizing

- one way to customize is to instal py plugins

- but you can also customize the presence and placement of the core tools

- you'll use qgis a lot–make it comfortable

- can customize what is displayed–right click at the top (below MENU)

- and select the stuff you want to have displayed

- can grab a toolbar (left side) and move around

misbehaving software

- most of the software sometimes misbehaves...

○ it does silly things, refuses to do something, crashes, etc

- troubleshooting:

○ email me

○ do what you are doing in a different way-e.g try different
  dataset; different var; different approach etc (usually
  can do same thing in many ways)

○ shut it down and fire it up again

○ reinstall