# Py plugins

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python plugins

**MMQGIS** 

QuickMapServices: OSM and others

HCMGIS (like QuickMapServices)

qgis2web [skip it/can do at home]

Data Plotly: scatterplots, (histograms, etc) TODO:chk at classroom

More Plugins

### python plugins

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MMQGIS
```

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More Plugir

workflow/saving and customizing

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## get the plugins

- Plugins-Manage and Install Plugins
- >500-scroll down-many names are self-explanatory
- o and also use search box, say 'google'
- experiment at home! many great tools there
- find sth awesome and present in class: extCre!

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#### **MMQGIS**

- arguably the most useful of all
- use it a lot, esp:
- -Combine-Attributes Join from CSV layer
- -Combine-Geocode CSV with Google / OpenStreetMap

-Modify-Text to Float

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# bringing basemap

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

# QuickMapServices plugin; OSM Standard

- Plugins-Manage And Install Plugins
- o and search for "QuickMapServices" and install it
- Web-QuickMapServices-OSM-OSM Standard
- o and it appears on the left under layers
- move it as the last layer so that it does not cover your map
- NJ counties: munis (same as alaways)
   https://docs.google.com/uc?id=
- 1xJDhcRCkgv7k4tNCa720og5bohV6dTB2&export=download
  o and nj\_munis-Layers-Properties: Fill, Simple Fill: Fill style:
- and nj\_munis-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
- Stamen Toner Lite is porbably best!

# 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

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#### **HCMGIS**

- give it a try
- but didnt work on my PC: qgis3.10/linux

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# cleanup data first

- layer-attr table
- o toggle editing-pen at top right
- o 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
- make layer transparent say 50%
- 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 :)
- O https://www.qgistutorials.com/en/docs/web\_mapping\_with\_qgis2web.html
- O https://www.xyht.com/spatial-itgis/creating-a-web-map-using-qgis2web/
- O https://www.sigterritoires.fr/index.php/en/

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

# 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 a webpage! :)
- o but need a webserver :(
- o see references from last slide-you can webhost that :)
- o also your org, county office, police, etc will have IT dept
- o send to IT folks and ask to put online

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### **Data Plotly**

- install plugin
- and it appears under plugins
- load usual counties

```
https://drive.google.com/open?id=1xJDhcRCkgv7k4tNCa72Oog5bohV6dTB2
```

- plot type: scatterplot
- sq miles against pop2010
- and under settings (3 cogs) Additional Hoover label: county lab
- and can easily export, icon at bottom right
- $\bullet \ ref \ {\tt https://giscrack.com/generating-graphics-with-data-plotly-in-qgis-3/} \\$

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#### check out these

- http://www.digital-geography.com/top-5-qgis-plugins
- https://plugins.qgis.org/plugins/popular
- https:

 $// docs. qgis. org/2.18/en/docs/training\_manual/qgis\_plugins/plugin\_examples.html \\$ 

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Word Flughts

#### workflow

- save the whole project (with many layers) and next time just open it
- o (again, don't ren, mv shapefiles-it'd break things)
- can move layer up/down in layer window
- o 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 few 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 ggis 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...
- o it does silly things, refuses to do something, crashes, etc
- troubleshooting:
- o 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)
- o shut it down and fire it up again
- reinstall