

# Py plugins

adam okulicz-kozaryn

`adam.okulicz.kozaryn@gmail.com`

this version: Thursday 17<sup>th</sup> September, 2020 17:41

## outline

python plugins

MMQGIS

QuickMapServices: OSM and others

qgis2web

workflow/saving and customizing

# outline

python plugins

MMQGIS

QuickMapServices: OSM and others

qgis2web

workflow/saving and customizing

## get the plugins

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

# outline

python plugins

MMQGIS

QuickMapServices: OSM and others

qgis2web

workflow/saving and customizing

# 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

# outline

python plugins

MMQGIS

QuickMapServices: OSM and others

qgis2web

workflow/saving and customizing

## 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
- but lots of work!
- can just bring all of that with a basemap



## QuickMapServices plugin; OSM Standard

- 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 satellite-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

# outline

python plugins

MMQGIS

QuickMapServices: OSM and others

qgis2web

workflow/saving and customizing

## 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 relevant 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.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-plugin](#)

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

# outline

python plugins

MMQGIS

QuickMapServices: OSM and others

qgis2web

workflow/saving and customizing



## workflow

- save the whole project (with many layers) and next time just open it
  - (again, don't ren, mv shapefiles—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 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 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