

# python plugins

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this version: Friday 11<sup>th</sup> September, 2020 13:05

## 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

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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

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## 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 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

## 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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## qgis2web

- install it; will appear under web, like openlayers
- Apperance:Add layers list: Expanded
- Export: Export folder change to where you can write
- Have Stamen Toner underneath :)
- [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-pl](https://www.sigterritoires.fr/index.php/en/how-to-export-your-qgis-project-to-an-html-page-in-two-clicks-the-qgis2web-pl)
- howto share this? zoom screenshare ! :)
- zip and email to people and ask them to unzip and open index.html with webbrowser
- or see references—you can webhost that :)

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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