python plugins

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outline

python plugins

MMQGIS

QuickMapServices: OSM and others

geoSearch

workflow/saving and customizing

outline

get the plugins

$\diamond$ plugins-manage and install plugins

$\cdot$ you can enable there lots of stuff–scroll down, there's some self-explanatory options

$\diamond$ 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 [also under Settings-Tiles can check "USe native renderer" –rendering seems faster that way]

· and it appears on the left under layers

◇ move it as the last layer so that it does not cover your map

◇ again it's especially useful if you work at low level

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cool features

⋄ (first load OSM so that can see where we are)

⋄ can quickly geocode: just input address

⋄ can easily have multiple nodes for the trip

⋄ can do all modes that google can do: walk, drive, bike etc

⋄ say pick last tab 'Route' and enter in first line

⋄ 'camden nj' and in second: 'philly pa' and hit ok

⋄ it will show the route along with distances

· or can click on the map

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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