Datapolitan

Data Solutions for the Modern Metropolis
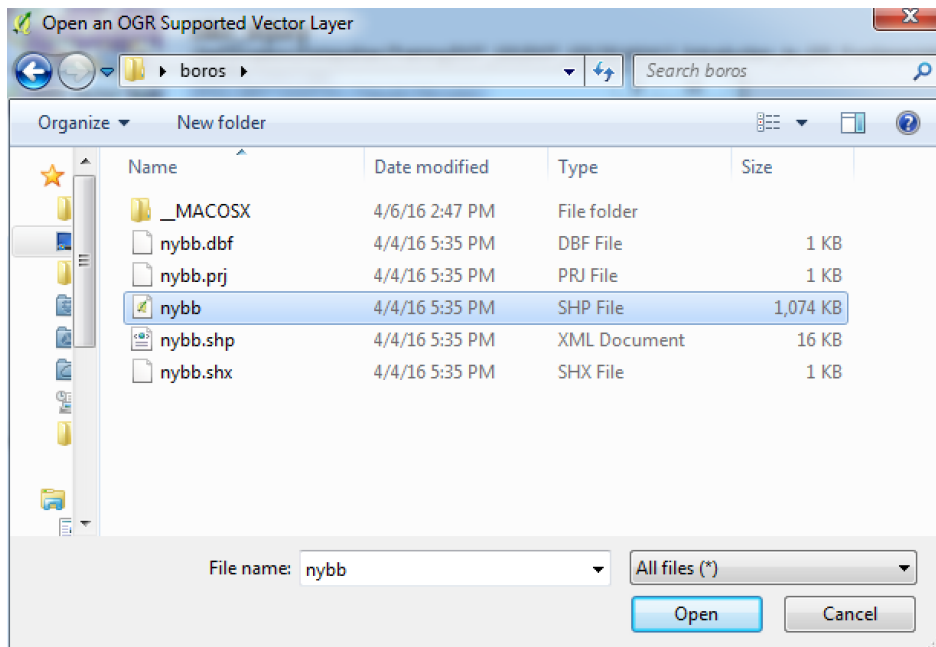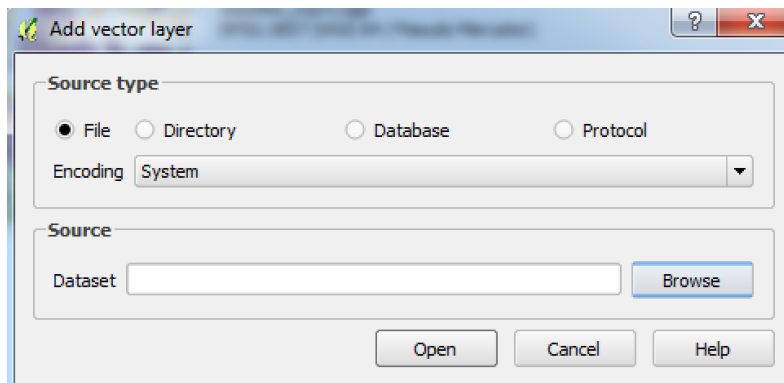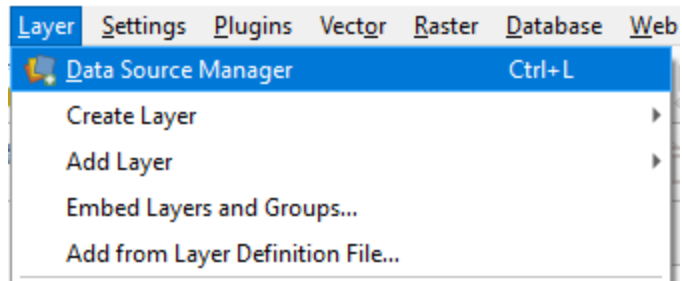
Advanced Data Analysis with GIS

Follow along at: http://bit.ly/advanced-analysis-gis

See the code at: http://bit.ly/advanced-analysis-gis-code
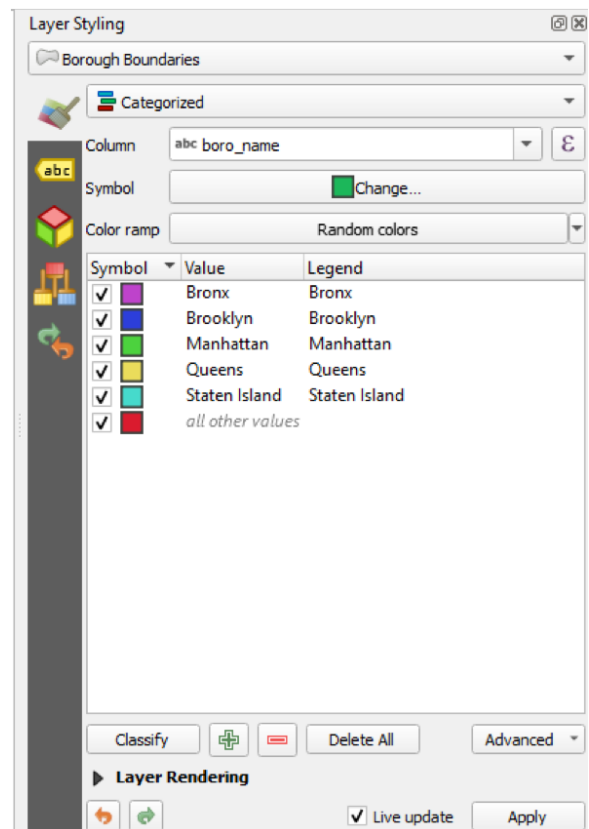
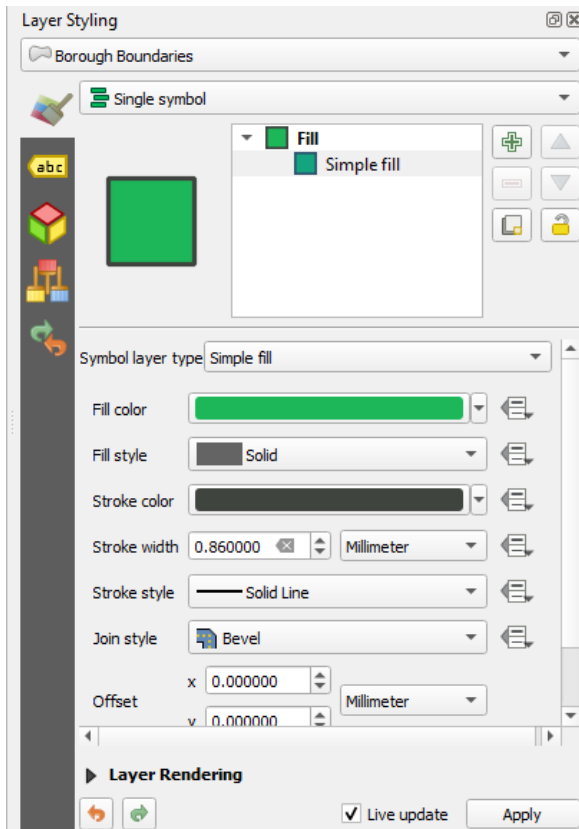## Key Questions for the Morning

- What is a GIS?

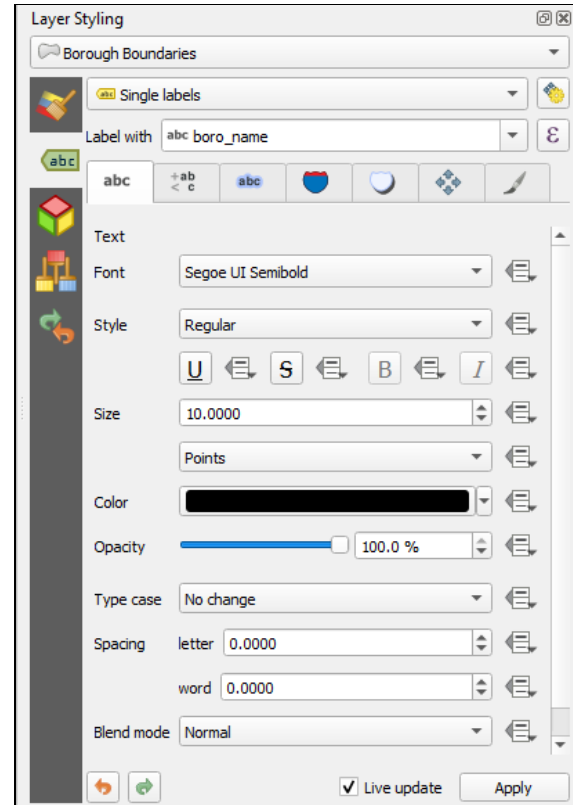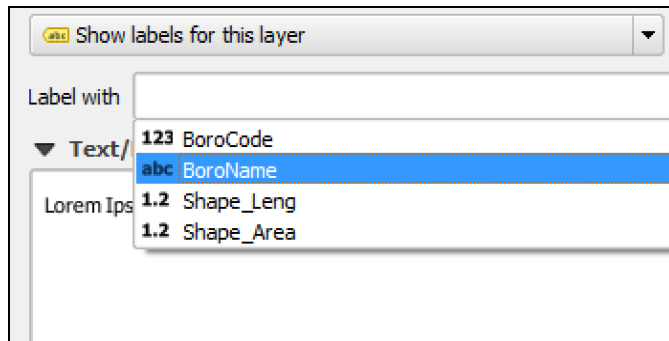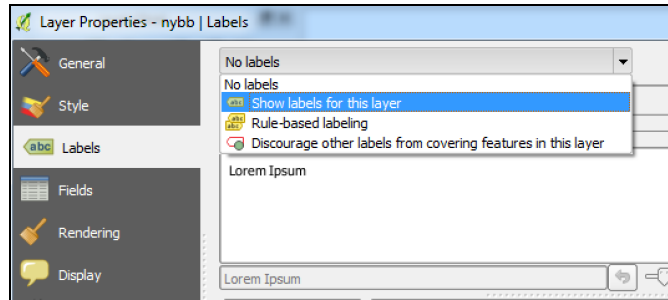- Why do we use GIS?

Loading a Shapefile

Styling Features

- Click the button on the top left of the Layers panel
- In the Layer Styling panel, select "Categorized"
- Select the column that has the data you want to style

Add Labels to Data

- In the Layer Styling panel select "Labels" -> "Show labels for this layer"
- Select the column that has the data you want to use for labels
- Select the label attributes you want

Shapefiles

- Key things to know

Adding Data from Data Warehouse

- Enter "**Parks DWH**" in the Connection name field (this can be whatever you want)
- Don't enter anything in Provider/DSN
- Enter "**data.nycdpr.parks.nycnet**" in the Host field
- Login with your Parks username and password

Filtering Data in QGIS

Coordinate Reference System (CRS)

- What is it?

- Why is it important?

Data Types in QGIS

Type	Notes
integer	
real	
string	
date	

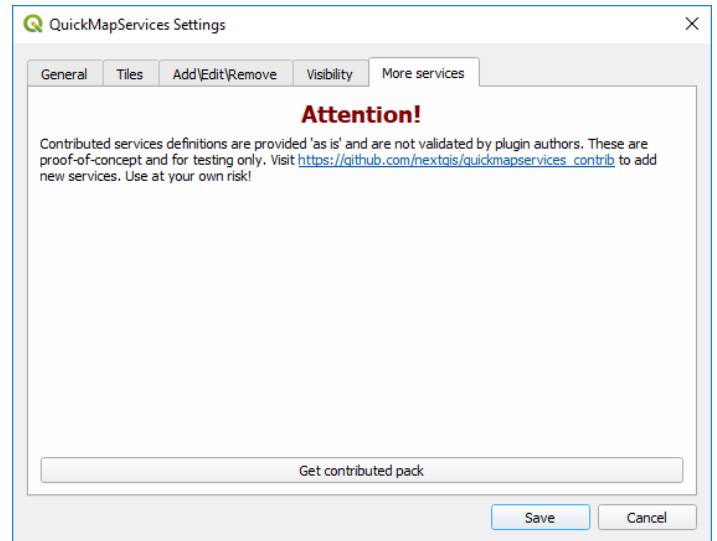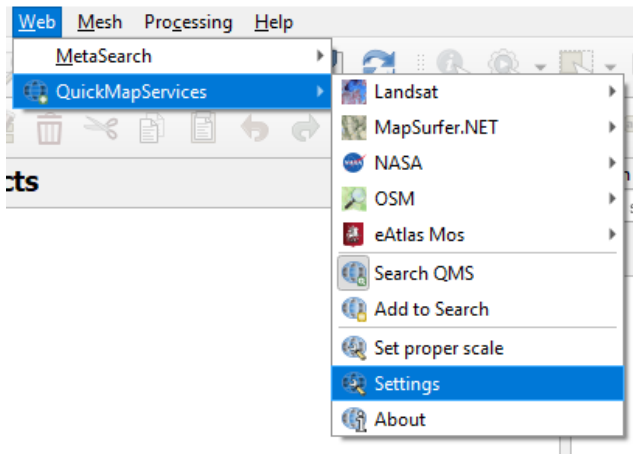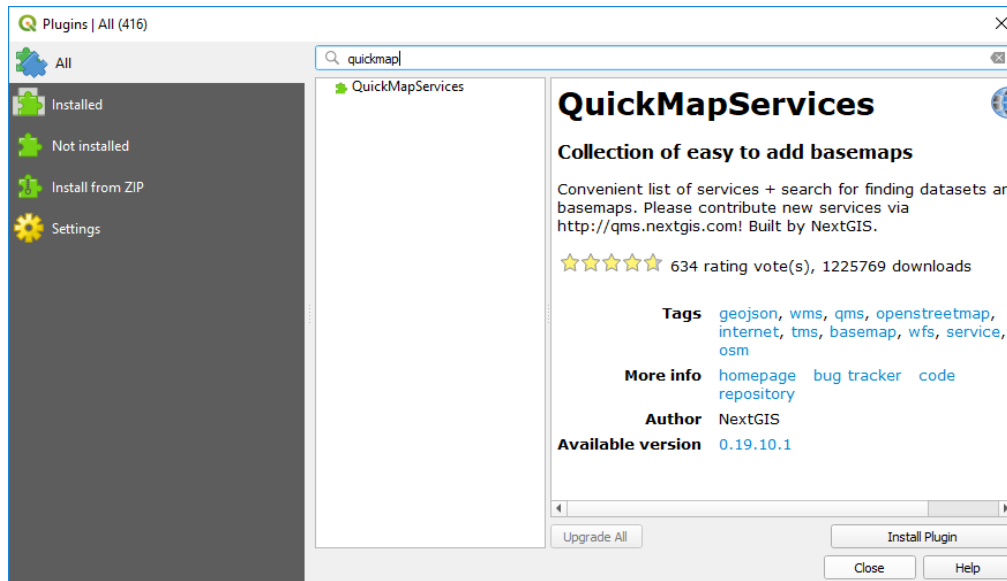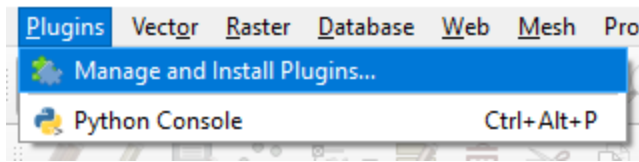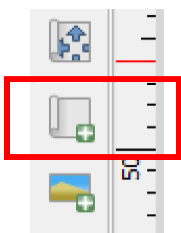# Key Questions for the Afternoon

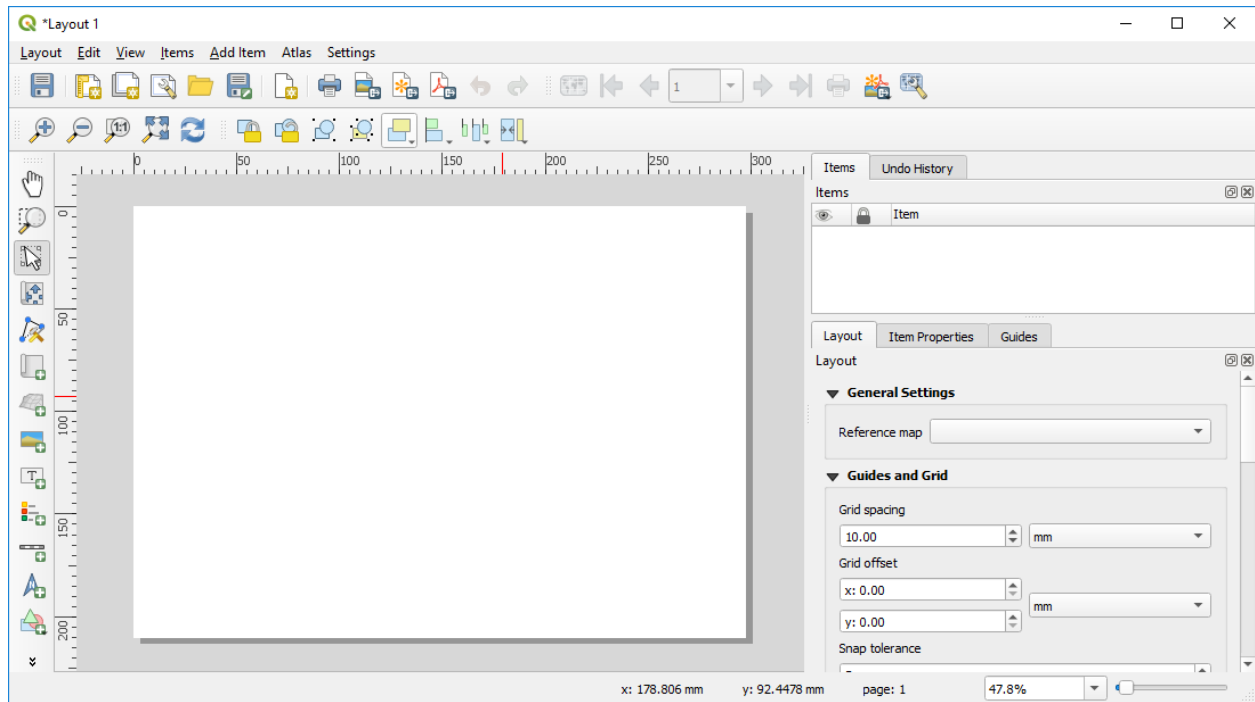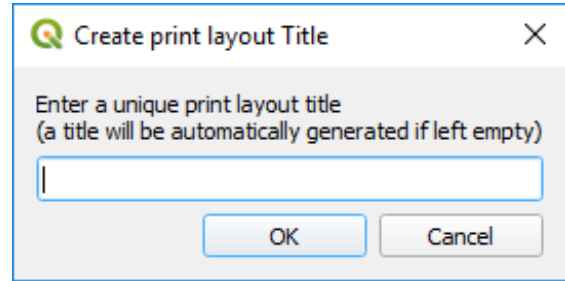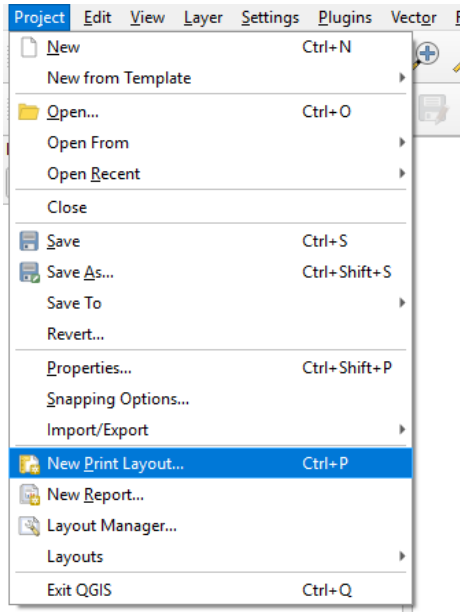- What are Spatial Joins?

- Why do we use them?

- Types of Maps

Adding Base Maps

QGIS Print Layout

Add New Map   **Add Title/Annotation**

- What is Open Source?

- Why is it Important?

Resources
- Download QGIS: https://qgis.org/en/site/
- GIS Stack Exchange: http://gis.stackexchange.com/
- Kurt Menke, *Discover QGIS 3.x: A Workbook for Classroom or Independent Study*:
  http://locatepress.com/dq3
- Anita Graser and Gretchen N. Peterson, *QGIS Map Design*: http://locatepress.com/qmd2
- *A Gentle Introduction to GIS*: https://docs.qgis.org/3.4/en/docs/gentle_gis_introduction/
- *QGIS Tutorials and Tips*: http://www.qgistutorials.com/en/index.html
- Eric's YouTube Channel: https://www.youtube.com/channel/UCsmBq4ziqRgBZSJK8sGF0Fg

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About Datapolitan

For over 5 years, Datapolitan has worked to empower public sector clients with the skills, techniques, concepts, and mindsets necessary to make data meaningful and actionable to effectively manage their resources and realize operational value from the information they collect. We do this through a range of consulting and training services for local government agencies and nonprofit organizations, customized to their strategic vision and operational needs.

Your Notes

Implementation Guide

Concept/Technique	Why It's Important	How I Can Use It
What is a GIS?		
What is a Layer?		
Data Types		
File Formats		
Styling Features		
Coordinate Reference System/ Projections		