View slides at: http://bit.ly/DMM2019-DataVisMap

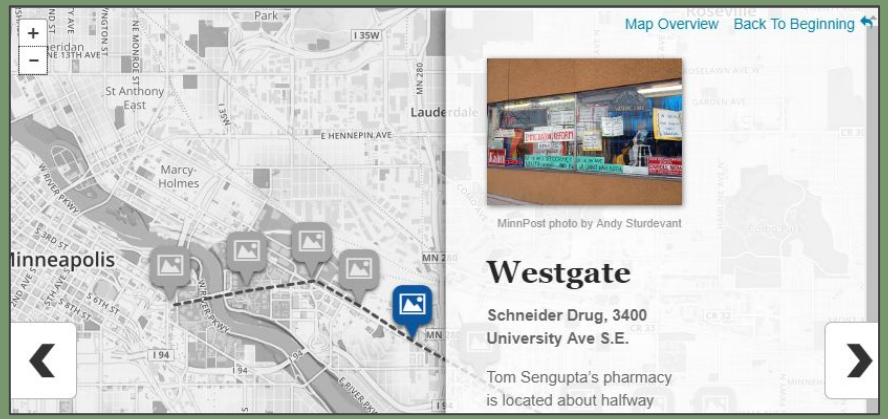
Jo Klein
Digital Methodologies Meeting
March 2019

Data Visualization & Mapping

ArcGIS

Leaflet

StoryMap JS



StoryMap JS

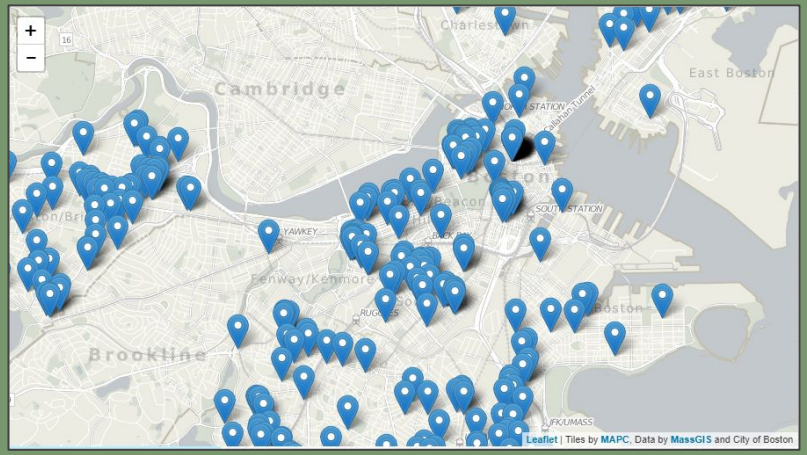
A free online tool for mapping stories from Northwestern University's Knight Lab.

Using Google Maps or Mapbox, you can map a series of events and import media from a variety of sources.

StoryMap Homepage

Examples:

1. Hockey, hip-hop, and other Green Line highlights
2. Arya's Journey



Leaflet

An open-source JavaScript programming language.

Can be used to create mobile-friendly interactive maps.

Leaflet

[Leaflet Homepage]

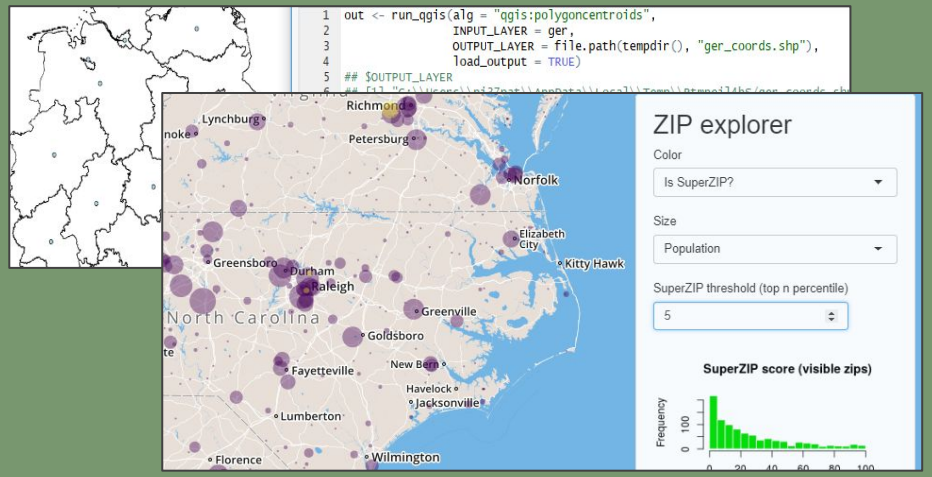
Tutorials (with examples):

1. [Leaflet: Make a web map!]
2. [Leaflet Basics]

Other tools:

[Leaflet Basemaps]

[JSFiddle]



R

A free and open-source programming language/single-line command software.

Can be used to analyze geospatial data, create simple visualizations. Packages and plugins can extend functionality into webmap development and more.

[R Project Homepage]
(or from [UNCG Software Catalog])

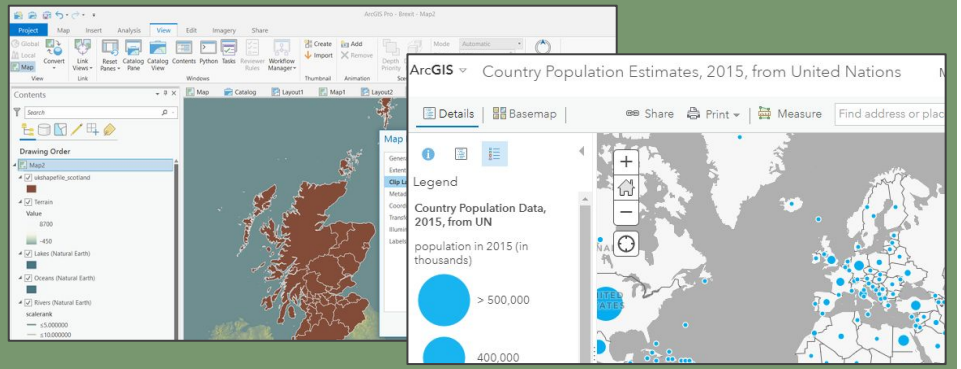
Examples:

1. [ZIP Explorer (using Shiny)]
2. [Waste Lands]

[Introduction to visualising spatial data in R]

[ggmap package]

[shiny package]



ArcGIS

A Geographic Information System (GIS) from Esri, which includes desktop software ArcMap and ArcGIS Pro.

Can be used for all things geospatial, including creating and using maps, compiling data, analyzing information, and managing information in a database.

Also can be used alongside SAS or R

ArcGIS

[ArcGIS Desktop]
[ArcGIS Online]
(or from [UNCG Software Catalog])

[Esri Training Resources]

[QGIS] – a **free**, open-source desktop GIS software with much of the functionality of ArcGIS, which can be expanded with plugins and used within R.

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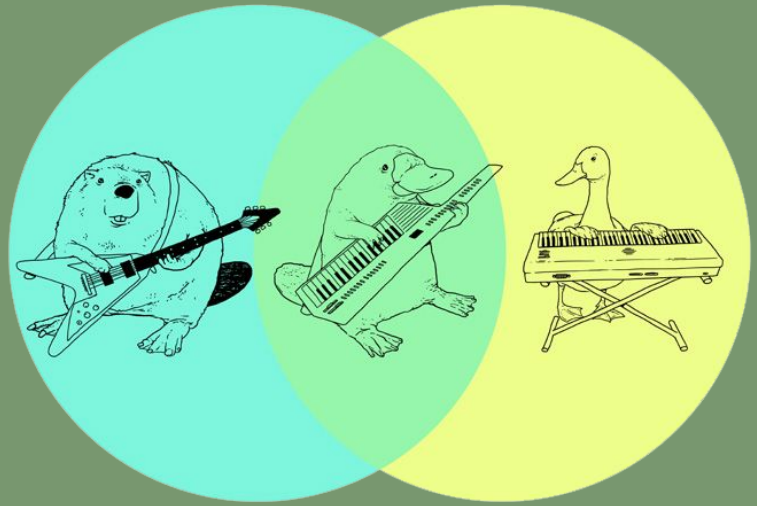
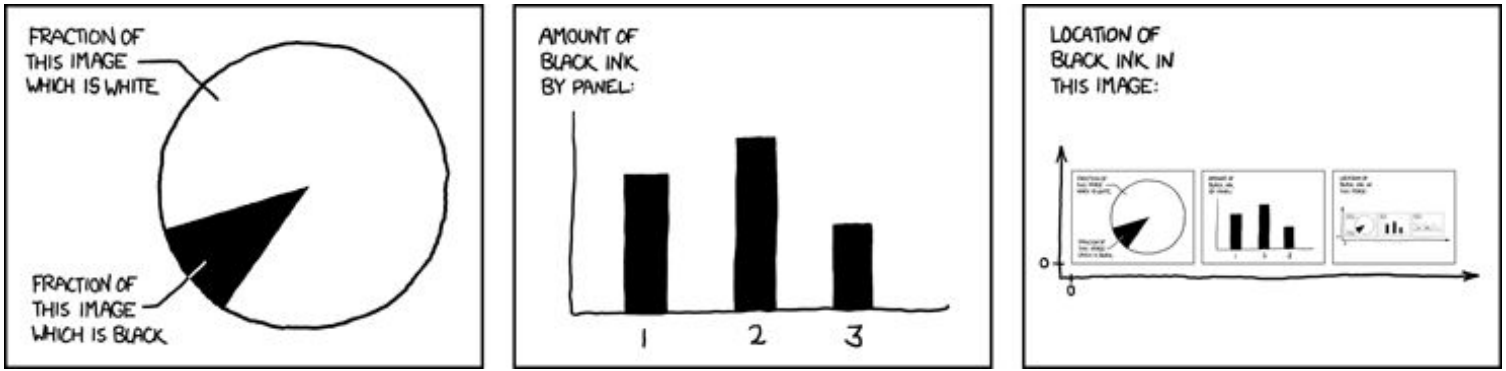


Data Vis. Tools

- Google Data Studio: [Earth, Water, Air, and Rising Temperatures]
- R: [Box Plots]
- Tableau: [Student Enrollment at UNCG]

GIS Resource Guide @ UNCG: https://uncg.libguides.com/gis

Data vis. guide coming soon!