

TPC+R: Mapping Tools

Monday, February 20, 2017

9:30-11:30am

Intro

Download sample data at: <http://tinyurl.com/tpcrmaps-s17>

What is GIS?

What is spatial data?

Web Mapping vs. Desktop GIS

- Web mapping tools
 - free basic account, online, Mac or PC
 - some have options to upgrade for a fee
 - primarily for visualization, not analysis
 - quickly create attractive and informative maps
 - limited customization
 - accept a variety of file formats to upload
 - easily share or embed finished products
- Desktop GIS
 - Fully customizable
 - Advanced analysis
 - Save locally
 - ArcGIS
 - Windows only
 - Industry leader
 - Lots of documentation and training available
 - Show eLearning site (free to Emory folks)
 - QGIS
 - Open source alternative
 - Windows or Mac
 - Similar functionality, but lacking in great documentation

Georeferencing

- pretty much requires desktop gis
 - discussion of arcgis and qgis
- demo of harvard worldmap warper (not private)
- Download Bacon's 1890 London map and georeference with QGIS and Google Earth Pro
- Not much you can do with these classroom-wise (most web-based tools can't display them)

Geocoding

- discuss meaning and options

Google Maps

- This can be a good classroom tool, but the issue is that it requires a Google account
- Can upload a spreadsheet of data, create popup windows, draw features (brief tour)

CARTO

- Demo with Atlanta Parks data
- Demo “Connect with Lines” <https://carto.com/learn/guides/analysis/connect-with-lines>

TimeMapper

- show examples
- Demo with Olympics host cities

Google Earth

- tour of interface

Guided Stories/Tours

- Esri Story Maps
- Google Tour Builder

ATLMaps

- Could be useful if studying Atlanta area

Neatline

- Show Artists at Home and Exploring Carlos sites