

**GIS data****Week 7**

Extracting historical geodata.

Due date (changed) November 6.

For this week, we'll be collaboratively digitizing some historic geodata.

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In class

1. Download a map of the world from <http://www.naturalearthdata.com/downloads/50m-cultural-vectors/>
  2. Set your CRS as the world.
  3. Download Boston-Area shapefiles from [benschmidt.org/GIS.zip](http://benschmidt.org/GIS.zip)
  4. Load them in QGIS.
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**1. Choose your map**

We're using maps of Roxbury from 1915.

<https://www.flickr.com/photos/mastatelibrary/albums/72157634973616960>

You've selected one already.

**2. Georectify the map**

Using some of the Boston shapefiles we've seen in class, georectify your map.

You'll need something to use as a base layer! I've given you to download a set of roads; but there are a variety of other sources out there that may work as well. [http://wsgw.mass.gov/data/gispub/shape/eotroads/eotroads\\_35.zip](http://wsgw.mass.gov/data/gispub/shape/eotroads/eotroads_35.zip)

[Abby Mullen has posted a list of instructions for georectification online](#) One additional note: be sure to choose "polynomial 2" as the method; otherwise, you might end up with a weirdly warped map.

### 3. Create a polygon layer.

Follow the directions [here](#) to make the layer. Make sure the attributes for each object include:

Be sure to follow the typology here exactly; don't make the column for "type" uppercase, for example! But do make sure it's a *polygon* layer, not a line layer, since buildings have shapes.

1. id
2. type let's try for a five-type taxonomy. Enter the term *exactly* as it appears below.
  - Commercial
  - Residential
  - Industrial
  - Government
  - Communal (churches, YMCAs, etc.)
3. name: The label for the object on the map.

### 4. Trace the five largest buildings in your map to the polygon layer.

Again, [follow the directions here](#).

### 5. Save the exported shapefile into a new folder.

That folder will have several files in it; one that ends with .shp, one that ends with .prj, and so forth.

Zip the *entire folder* and mail it to me—we'll try to assemble all these pieces together into a partial map of Roxbury 100 years ago.