Go to ArcGIS Online: [www.arcgis.com](http://www.arcgis.com)

Sign in with the credentials provided to you:

\*Note – Campus may have access, otherwise can create an account. If you have questions, we can discuss this later.

**Mapping your Data**

1. Create a Map (click Map)
2. Overview of interface (map, Table of Contents, Basemap, Add, Save)
3. Add > Add Layer from File
4. Change Style
   1. Default style is something that is randomly assigned.
   2. This requires knowing your Data to determine what you want to display.
   3. What are you interested in: Overall rating, Number of burritos offered, cost?
5. Save Map
   1. Title, tags and brief description
   2. Save to high level folder. Can re-organize later.
6. Change Basemap

**Analysis of your Data**

You now have your burrito locations mapped. It’s time to dig deeper into the data and start to ask questions about the data and relationships to other variables.

* Example questions we might ask about this data:
  + What is the density of burrito shops?
  + How do the burrito locations compare to demographics, for example age?

1. Click Analysis
2. Select > Analyze Patterns > Calculate Density
   1. Point layer from which to calculate density = Number of Burritos
   2. Use Count Field = Number of burritos
   3. Change number of classes to 6
      1. Can review each of these steps in greater detail by clicking the Info blue dot
   4. Result Layer name = Add your initials to the default (or change it completely)
      1. Remember that if others save the same file, there can be conflicts based on how the system is setup
   5. Use current map extent = leave checked
   6. Click show credits
   7. Run Analysis

This will take a few minutes depending on the number of data records you are using and the area of coverage.

**Add Other Data**

You can use your own data or data published / shared by others. In ArcGIS Online, there is a repository of other datasets. Some have reliable metadata and are from reliable sources others can be share by a random person as part of their exploratory project. There are ways to filter through and identify reliable datasets. One such reliable repository is called “Living Atlas”. You will browse through the Living Atlas layers.

1. Add Data
2. Browse Living Atlas Layers
3. Search “Age”
4. Add to map: 2016 USA Median Age
5. Save your Map

**Communicate your Findings**

Once you have created your map, you will likely want to share your work with others. You can share the map as you have it, but there are other templates that can be used that provide a more finished look to your map. With any of your maps, you can also embed the maps into other websites or web-based programs such as Scalar.

1. Click Share

You have the options to share out to the world or to keep your map private to only you or to a small group of users (who also have access to ArcGIS Online). Public is still relative as someone must have the URL to access to your map.

1. Click Create a Web App
2. Select Story Map Journal and click Create Web App  
     
   There are a number of options that can be customized. It’s up to you to determine the best platform that fits your needs as well as the needs of your audience.

*More info:*

Change Style – Heat Maps – More info on how to Heat maps work: https://www.arcgis.com/apps/Cascade/index.html?appid=ca7e12f6e8c0474bb4269889bda8ce41