Practical Lab 01: **Cartography**

**PART 1:** How to make a good Reference Map

* Basic Symbology and the application of color
  + Water background
* Visual Hierarchy
* Edit layer names for legend
* Labels: State abbreviations (if time allows)
* Add Student name to map

**Challenge 1:** Follow along, and make your own reference map. Save to your folder as a .jpeg file: “Yourname”\_Practical01\_Challenge01.jpeg

**PART 2:** How to make a good Thematic Map

* Basic Thematic: District Population of Rural Poor
  + Introduce the concept of data standardization
* Basic Thematic: Sub-county agricultural data
* Display hierarchy (for visual effect)
  + Hollow District outlines, remove sub-county boundaries
* Advanced Thematics
  + Pie Chart (animal census)
  + Graduated symbols (if time allows)
* Add Student name to map

**Challenge 2:** Make a NEW sub-county based thematic map using one of the other available agricultural variables. Save to your folder as a .jpeg file: “Yourname”\_Practical01\_Challenge02.jpeg

**PART 3:** Setting up a Layout

* Orientation of layout
* Insert:
  + Title, text
  + Legend
  + North Arrow
  + Scalebar (Grid; if time allows)
* Arrangement/Balance

**Challenge 3:** You will be presented with an example of a very UGLY map. Based on the previous demonstration, amend the map elements (both layout and map content) to produce an aesthetically pleasing map product. Save to your folder as a .jpeg file: “Yourname”\_Practical01\_Challenge03.jpeg