CRTY 1043

Centre of Geographic Sciences
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Multi-Scale Mapping

The purpose of this project was to create a multi-scale mapping taxonomy chart for a chosen basemap style. This project combined knowledge on colour, visual variables, levels of data measurement, symbolization, scale, and typography previously studied in class and past assignments. Using examples of published topographic maps, a taxonomy chart was developed including the most common feature classes at ten zoom levels commonly used in published work. Weighting, colours, and font sizes were determined through experimentation in ArcGIS Pro, and utilized example feature classes from Natural Earth as well as sample feature classes created for the project. The poster included symbology for roads, boundaries, land cover, points of interest, labels, and more, creating a detailed outline for the design of an online map in a topographic style.

Researched varying scales of topographic maps produced by **Natural Resources Canada** and **GeoNova** to better understand topographic styles and commonly produced scales.

Considered zoom levels, cartographic design, and existing samples to determine which feature classes to include in the overall poster, as well as the zoom extent of each feature class.

Experimented with differing line weights, point sizes, and font types in **ArcGIS Pro** to determine the ideal symbology for each feature class at each zoom level.

Designed a collection of appropriately sized, visually cohesive symbology items to be used in an online basemap using the classic topographic map style.

Organized a well-laid out final poster in **Adobe Illustrator** to showcase symbology designs.