GEOG205 Winter 2019 Project (25%)

➢ The project outline is completely open if you have specific ideas of your own.

➢ The purpose is to create a map of your choosing from data import to finish.

➢ Use this chance to make a map to show an area / theme that is useful or meaningful to you .... or an area relevant to another course. You can use the three assignments as 'models' of the type of map you might produce: 1. Location, 2. Thematic, 3. Topographic; check the 'Projects' link on the GEOG205 home page to view some previous project maps.

➢ Final product is a **tabloid (11 x 17") or letter (8.5 x11") page size map**, submitted along with a **one page description / rational** behind your area and design - why you chose this area, what you are showing, and design principles.

➢ This map should embody the principles and processes learned during the course. Do <u>NOT</u> use another map as 'raster' background in your final output.

➢ You should endeavour to access and assemble the data you need in this first week's lab time ... confer with your TA as needed.

➢ See the projects tab on the syllabus webpage for examples of past projects

First steps

1. Which **map type**: Location, Thematic or Topographic ?

2. **Geographic area**: BC, Other province, Other country ?

3. **Scale**: Municipal, Local, Regional, National, Global.

4. Aim to collect data 'lab10', plan design 'lab11', execute final output final week lab12.

Selected data available:

Canada - all map NTDB **vector** layers at 1:50,000 (similar process to assignment 5)
BC - provincial TRIM layers, by tile (from GIS lab) or AOI (area of interest - online)
BC - Vegetation resource inventory (VRI) - forest cover and related thematic layers
PG - all city layers including DEM, contours and orthophotos
Census Canada: https://library.unbc.ca/collections/data-statistics
Global roads and trails: www.openstreetmap.org
Other - the list could be endless .. you are not limited by the above
See for example: https://en.wikipedia.org/wiki/List_of_GIS_data_sources

If you have no distinct other plans, you could follow this default template:

Select a dataset from the NTDB (anywhere in Canada) at 1:50,000. Redesign the elements to suit your focus, and distinguish it from the standard NTS design. For example, add shaded relief - easily generated from the contours/DEM.
The data are initially organized and can be downloaded by 1:50,000 NTS map sheets, but the Geospatial Extraction tool enables you to cross map edges (see lab 8).

-   download using geospatial extraction tool for map sheet or AOI;
set coordinate system to WGS84 - pseudo-Mercator ('web Mercator') - as you did in Lab8
You should not map in Lat/long (geographic) as area is distorted - if you download data in Geographic, you should then project/reproject it to UTM or ALBERS

BC data

https://apps.gov.bc.ca/pub/dwds/home.so *(but easier in this course to stick with NTDB)*

https://www.for.gov.bc.ca/hts/vridata

Other Provinces- (or google provincename gis data)

http://canadiangis.com/data.php

Municipal sites: (UNBC GIS Lab has PG data)

http://princegeorge.ca/cityservices/online/odc/Pages/default.aspx

Other BC cities- search online: e.g. Saanich (Victoria)or refer to canadiangis site

Selected free data sites:

http://www.openstreetmap.org

http://freegisdata.rtwilson.com

http://www.diva-gis.org/   and   http://www.mapcruzin.com

.. also see the data options when you 'add data' using ArcGIS online

Report 5%   - 1-2 pages 1.5 spacing suggested
   ➢ Rationale for choice of area and map type
   ➢ Brief summary of layers used and source
   ➢ What we are looking at on display
   ➢ Design principles - what you tried to show
   ➢ Properly written, not an essay but avoiding typos and poor grammar

Map: 20% - 4% for each of these items:

   ➢ symbolisation and lettering, ancillary information, overall complexity and layout