

Due Wednesday, May 14, 2014 before midnight

Due to Grade Submission Requirements NO Late Examinations Will be Accepted - 0 pts will be given for submissions after midnight on Wednesday May 14th.

Make sure to *clearly format* your writeup so that your answer's are understandable.

100 pts (20 pts./question)

As with your milestone and deep dive assignments - write up your midterm as a web page and submit the URL of your web page as your submission for the Final Exam "assignment" in addition to linking it from your class home page.

1. Acquire, process, and understand the data for the exam:
 - i. Download the final exam data collection from (http://karlbenedict.com/GEOG485-585/final-exam/final_data.zip).
 - ii. Unzip the archive.
 - iii. Run ogrinfo or gdalinfo (as appropriate) for each of the datasets. **Include the first 5 lines of the output from gdalinfo or ogrinfo for each of the datasets in your writeup.**
 - iv. Place the data in your data directory on the class server.
2. Add the data to GeoServer, create *stores* and *layers*:
 - i. Add each of the layers to GeoServer through the creation of a new "store" (in your *workspace*) for each of the datasets
 - ii. Create one new "layer" for each of the stores. **Include a screenshot of each of the five new layers from the GeoServer "Layer Preview" tool in your writeup.**
3. Display any three of the GeoServer hosted layers in QGIS or ArcGIS (*as a WMS layer*) and **include screenshots of each of the three layers in your writeup.**

The GetCapabilities request for your workspace on the GeoServer instance we are using for the class is (ignore the line break):

```
http://geog485.unm.edu:8080/geoserver/<your workspace name>  
/wms?service=WMS&version=1.1.1&request=GetCapabilities
```

For example (again, ignore the line break):

```
http://geog485.unm.edu:8080/geoserver/s_teststudent/wms?  
service=WMS&version=1.1.1&request=GetCapabilities
```

for the "s_teststudent" workspace

4. Create a new OpenLayers web mapping client:
 - i. Include each of the five layers that you created in GeoServer in the layer picker in your mapping client
 - ii. **Embed the client in your final exam web page.**
5. Create and add styled layers to your OpenLayers client:
 - i. Create two new layers based on two of the *stores* added in 2) above.
 - ii. Create two custom styles, one for each of the two layers and make those the default style for the two new layers
 - iii. Add these two styled layers to the mapping client generated for question 4. Provide the layer names for your customized layers in your writeup.