Lab 2: "Getting Started with Cartographic Representations"
by ESRI

Assigned date: Oct. 9, 2018 | Due date: Oct. 16, 2018
Total credit: 40 points

Introduction

This lab provides useful exercises to design many types of symbology for a map based on digital cartography by using ArcGIS. This ESRI instruction of the virtual campus course, "Getting Started with Cartographic Representations" provides very specific and detailed steps to follow based on ArcGIS user interface. The entire course includes three exercises that may need a few hours to complete. However, for this Lab 2 the first two exercises, **"Exercise 1: Create representations and rules"** and **"Exercise 2: Create representation markers"** of the course are required to be completed. You may need about 45 minutes to complete each exercise. If you want to do the rest of Exercise 3 for your own study it is fine, but they do not need to be included in the Lab2 assignment.

How to access the virtual campus course

Just like when you did the Lab 1, refer "**Esri ELearning Instructions.pdf**" posted under the Lab1 folder on the BeachBoard. There are 12 steps you can follow to start taking the ESRI e-learning course for this lab. Especially, in the **Step 9** use key words "**Getting Started with Cartographic Representations**" to find the course for the lab. Then continue to follow the rest of the steps 10-12.

Access to this course expires 100 days from the date when you started taking the course. Upon expiration, you will no longer be able to access the course materials.

Exercise 1: Create representations and rules

1. Read the contents of the **INTRODUCTION** of the **Getting Started with Cartographic Representations** training course until you will get to the **Exercise 1**: "Create representations and rules".
2. Complete the 9 steps of the Exercise 1 of the course by following the ESRI Virtual Campus instruction. When you finish **the last map** of each of the **Steps 7~9**, export **the last map** as a **PNG** image file with at least **300 DPI** resolution from ArcMap. In total, you will export **3 map images** from the Exercise 1.

Q1. Include the three exported map images of the Steps 7, 8, 9 in the Exercise 1 in the lab 2 report with appropriate titles—for example, Step 7, Step 8, Step 9. Save your lab 2 report. **(18 points = 6 points X 3 maps)**

Tips: To include the images in your lab report, open a new Word document, click on **Insert tab in Word > Picture button**, and choose the image from your USB drive. Then the image will be inserted in your word document.

Q2. Save your **MXD file** created by finishing the Step 9 in the Exercise 1 and **submit it to the dropbox**. **(2 points)**

Exercise 2: Create representation markers

1. Complete the 13 steps of the Exercise 2 of the course by following the ESRI Virtual Campus instruction. When you finish **the last map** of each of the **Steps 6, 9, and 13**, export **the last map** as a **PNG** image file with at least **300 DPI** resolution from ArcMap. In total, you will export **3 map images** from the Exercise 1.

Q3. Include the 3 exported map images that you created from the Exercise 2 in your lap2 report, too, with appropriate titles—for example, Step 6, Step 9, and Step 13. Then save your lab report as **a PDF document to reduce the file size and submit the PDF document (<u>no other file formats—this is to make the file size small</u>) to the dropbox. (18 points = 6 points X 3 maps)**
DO NOT submit the map images as separate files. Your lap report includes them.

Tips: To include the images in your lab report, open a new Word document, click on **Insert tab in Word > Picture button**, and choose the image from your USB drive. Then the image will be inserted in your word document.

Q4. Save your **MXD file** created by finishing the Step 13 in the Exercise 2 and **submit it to the dropbox**. **(2 points)**

- In total, you will submit **<u>ONLY ONE lap report in PDF only (no other file formats—this is to make the file size small)</u> and <u>two MXD files</u>** to the dropbox of Lab2.

Good job! You finally finished Lab 2!
If you have any questions, feel free to let me know.