SOC 4650/5650: Lecture Prep 13 - Drawing a Polygon

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Directions

Complete all of the steps in this document. This follows the first part of Tutorial 7-1 in Goor and Kurland (see pages 256-258), but the data and steps have been modified. A replication video will be posted on YouTube. Your map output (`.pdf`) should be uploaded to your GitHub assignment repository in the `LecturePreps/LP-12` directory by 4:15pm on Monday, April 30th, 2018.

Part 1: Creating a Polygon Layer

1. In a new map document, add the `STL_BOUNDARY_City.shp` file, the `STL_HISTORICAL_Districts` file, and the `STL_TRANS_Streets` data from `DataLibrary/ExampleData` to your map document. Make that the layers are colored so that they are easy to distinguish from one another. See the workspace image in the `lecture-14` repo for details on how I colored and positioned by layers.

2. Add a new file geodatabase to your `LP-13` directory in your assignments repository.

3. Right click on the geodatabase in the Catalog window in ArcMap and select New ◁ Feature Class.

4. In the Name field, type "zoo".

5. For Type, select Polygon Features and click Next.

6. Make sure `NAD 1983 StatePlane Missouri East FIPS 2401 (US Feet)` is the projected coordinate system, and click Next three times followed by Finish.

Part 2: Drawing the Polygon Layer

7. Zoom the map into Forest Park. It will be the more open area with winding roads in the mid-section of the city on the left (west) side of the map. See the workspace image in the `lecture-14` for the area you should be focused on.

8. Click Customize ◁ Toolbars ◁ Editor.

9. On the editor toolbar, click Editor ◁ Start Editing.

10. From the Editor toolbar, click the Create Features button.

11. Click the zoo layer's listing in the Create Features panel.

12. In the Table of Contents, right click on the zoo layer and make it the only selectable layer.

13. Using the Straight Segment tool, position the crosshair cursor over the street centerlines around the zoo (again, use the workspace image for reference), and single click (**do not double click!** to add vertex points. Continue adding points around the zoo's perimeter until you have reached your starting point. At that point, you can double click to close the polygon.

14. On the editor toolbar, click Editor ◁ Save Edits. Then click Stop Editing.

15. Export your map image as a `.pdf` file at `300 dpi`.