

**GEOG 5201 Geovisualization**  
Lab 6: 3D Visualization (Vector)

**Part 1: Guided Exercise**

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Technological advancements in geography have enabled us to create more realistic depictions of the real world through the increasingly accessible 3D-mapping tools. The objective of this exercise is to create and share a scene covering an area in Portland, Oregon using vector data for building footprints and tree locations. You are also expected to share the scene on ArcGIS Online for presentation.

**Activities**

Complete tutorial: [Author and share a local scene](#). You will visualize a 3D scene covering an area in Portland, Oregon.

- Style the buildings and trees as you see fit

**Assignment**

*Note: Submit your responses to the following questions on the course website. Be sure to have all your answers and file(s) ready before starting your submission. You are allowed only one attempt to submit your responses.*

1. (5 pts) What is the purpose to add the elevation source?
2. (5 pts) How to visualize the buildings in 3D?
3. (5 pts) Input the link to your web scene here.

**Part 2: Unguided Exercise**

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In this exercise, you are expected to create a bivariate map using colored prisms and export it as a PNG file.

**Activities**

Create a bivariate map using colored prisms. You may think of using height of the geography to represent one attribute, and color of it to represent the other. Export your prism map as a PNG file.

**Assignment**

*Note: Submit your responses to the following questions on the course website. Be sure to have all your answers and file(s) ready before starting your submission. You are allowed only one attempt to submit your responses.*

1. (5 pts) Describe the following items in 200 words: your data source, how you create the prism map, and your findings from the visualization.

2. (5 pts) Upload your prism map here.