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Lab #3: Centrality

**Lab Objective**

The objective of this lab was to create a script that can compute a number of spatial statistics on any set of points. These include finding the mean center, the distance between two points, or finding the central feature.

**Approach**

The main approach undertaken was to look for ways to manipulate previously written scripts in order to adapt them to different data types. The statistical methods were previously written in Lab 2, however, those methods dealt with a list of objects (with information) rather than with dictionaries. The main approach was to find ways to format the data so that key and value information could be easily accessed.

**Topics Learned**

I learned about dictionaries. How to create them, how to access their keys, how to access their values, and how to convert to and from lists to dictionaries in order to be able to use the information held within them.

**Conclusion**

It’s interesting to be able to write a script similar to tools I’ve used before in ArcGIS. I am also a lot more proficient at knowing the difference between dictionaries and lists and knowing when each should be used, which seems to be a useful skill.

**Enclosures**

centrality.py