

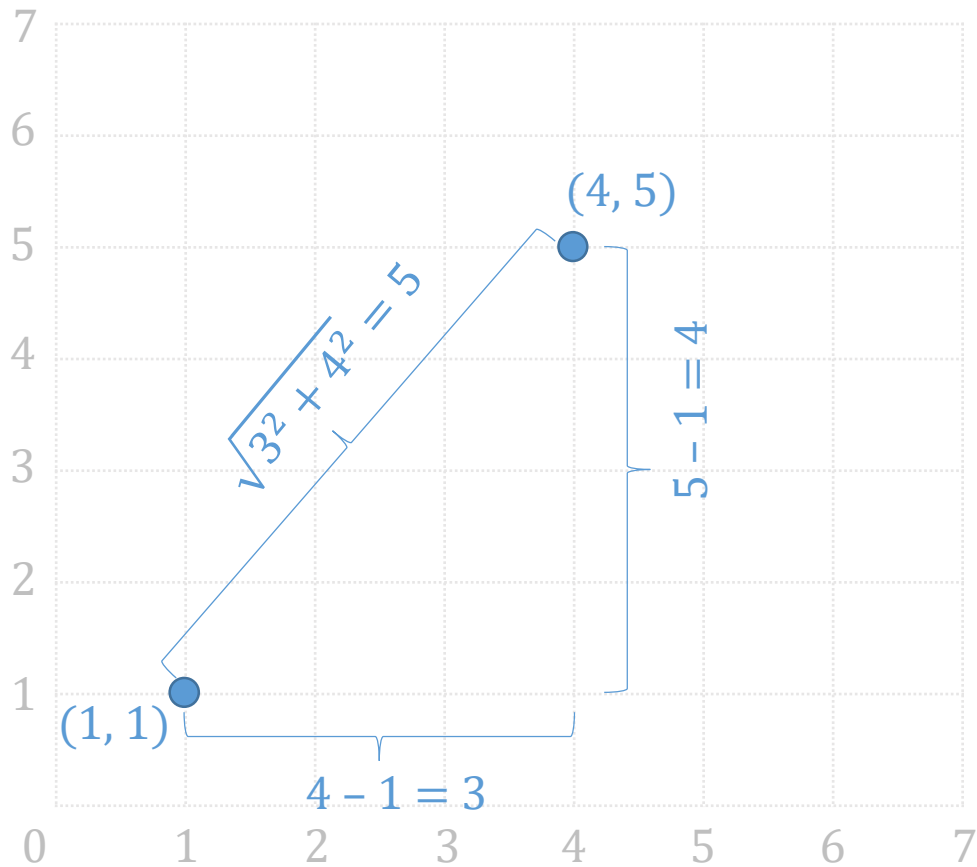
Distance

# First law of geography

Everything is related to everything else, but near things are more related than distant things”

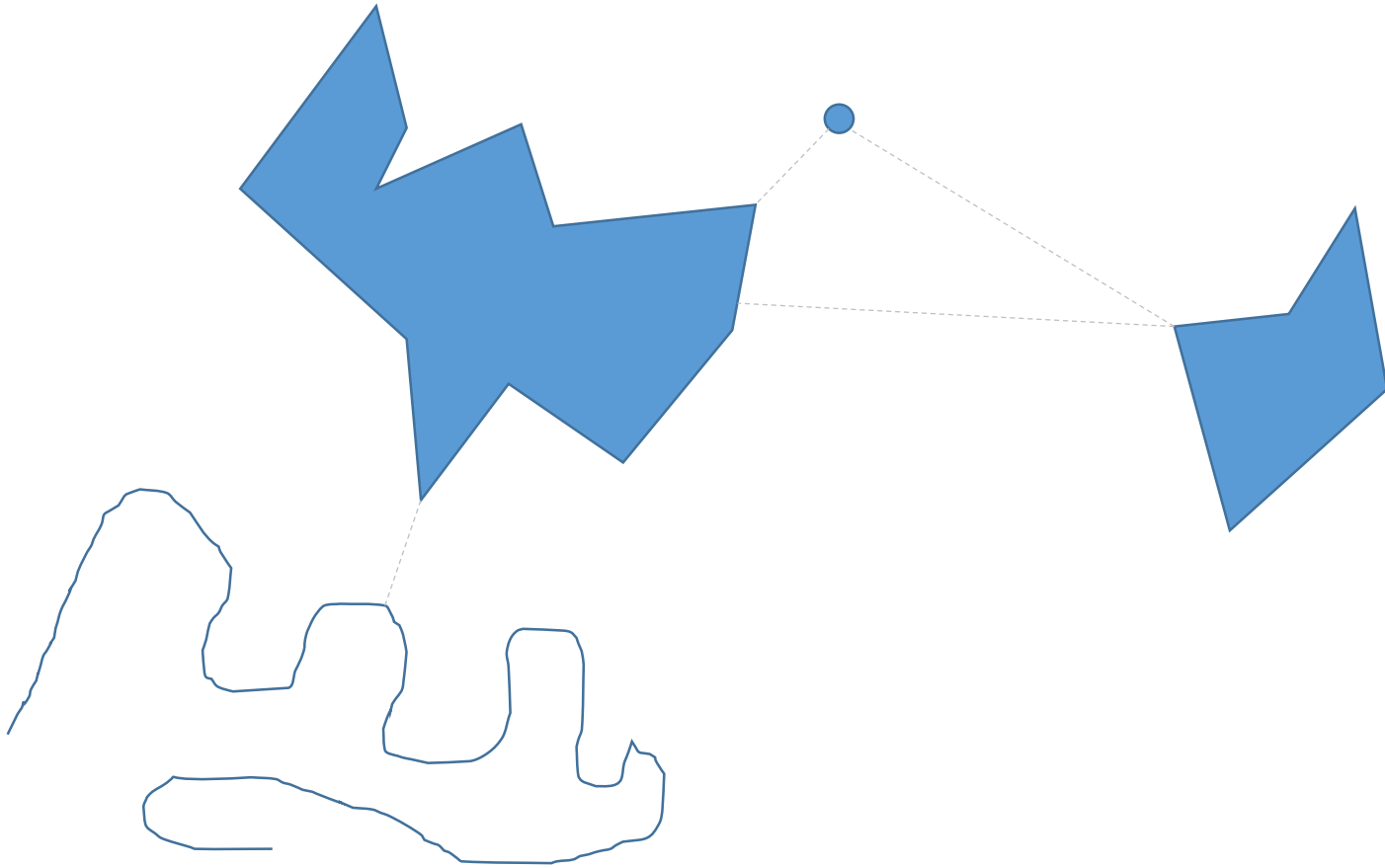
~ *Waldo Tobler*

# Distance between two points

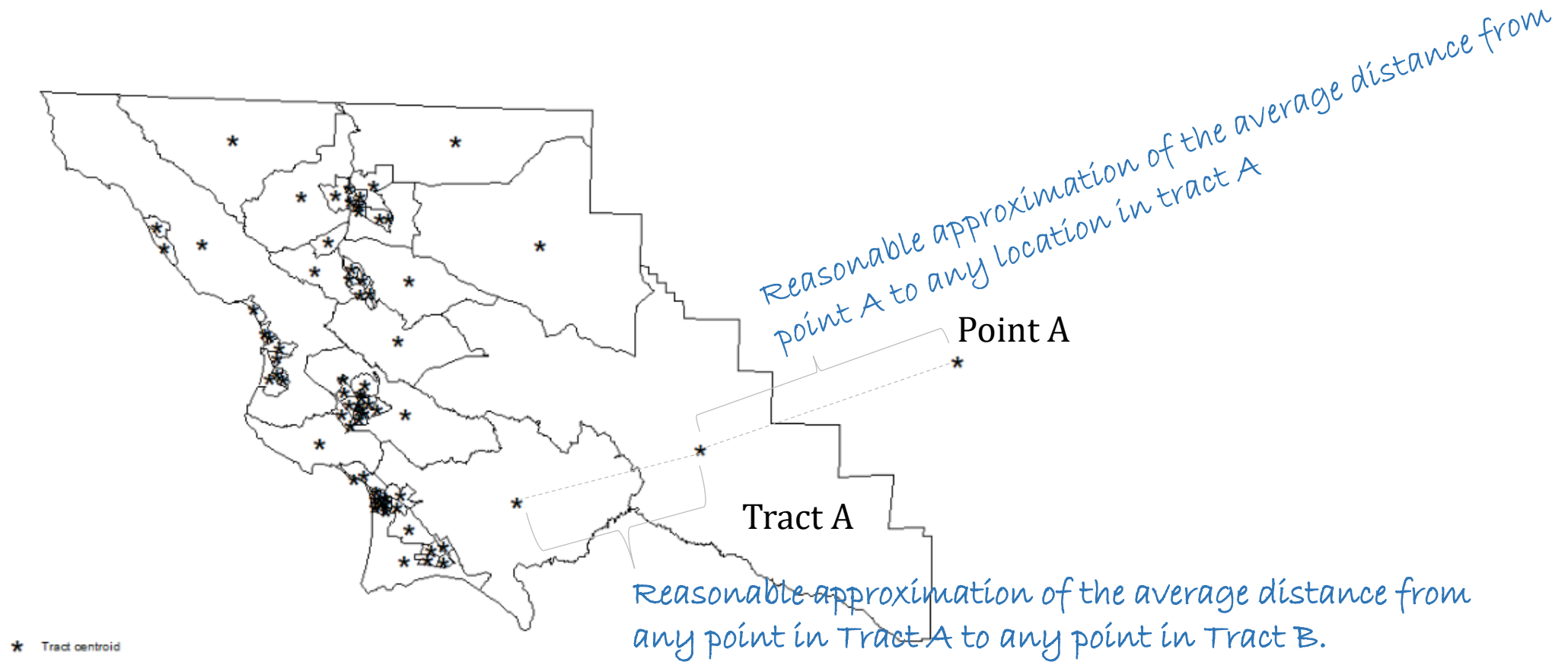


Coordinates must be in units of distance (or you need to be able to convert them to units of distance).

# Distance between things that aren't points

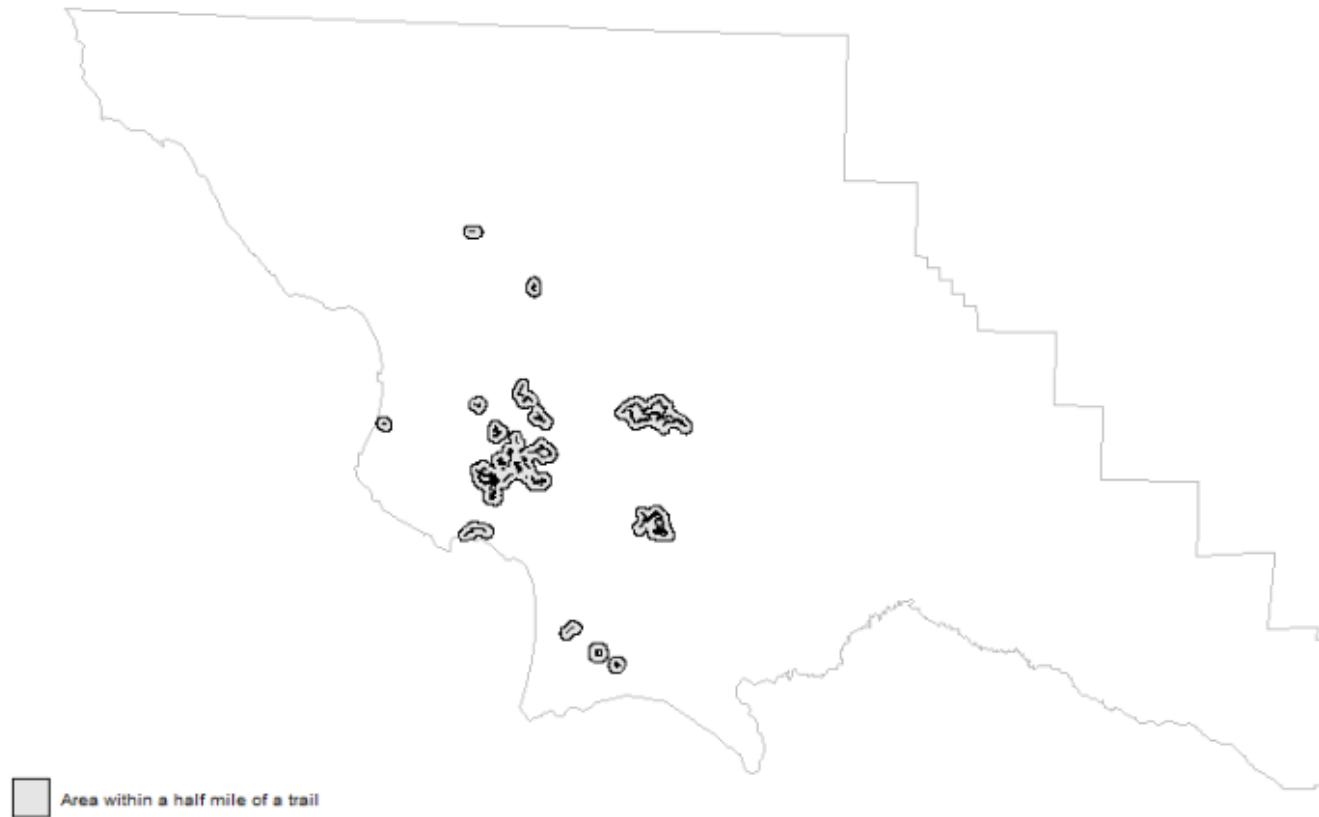


# Centroids

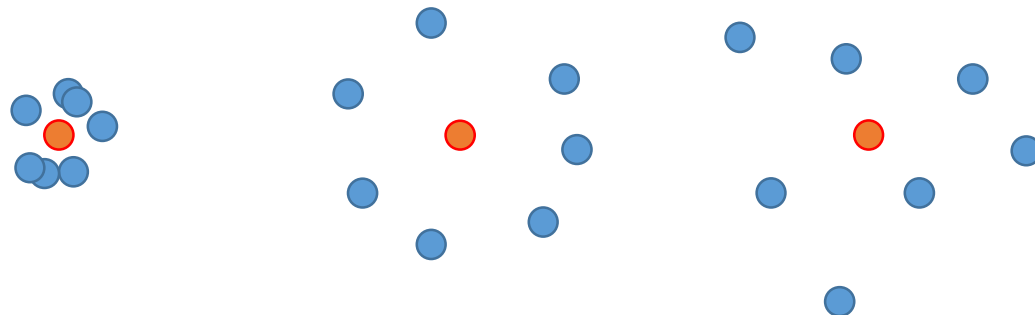


*Bonus: Centroids are also handy for placing labels!*

# Buffers

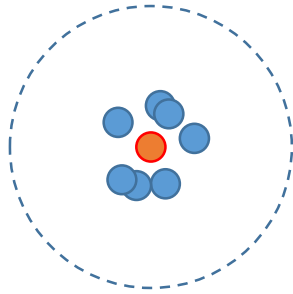


# The danger of thresholds

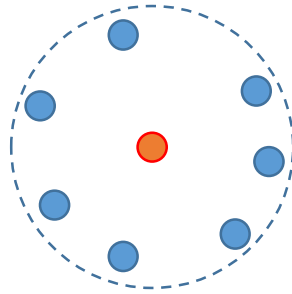


# The danger of thresholds

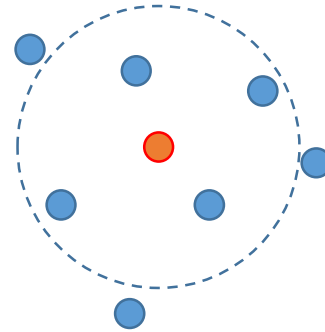
7 nearby dots



7 nearby dots

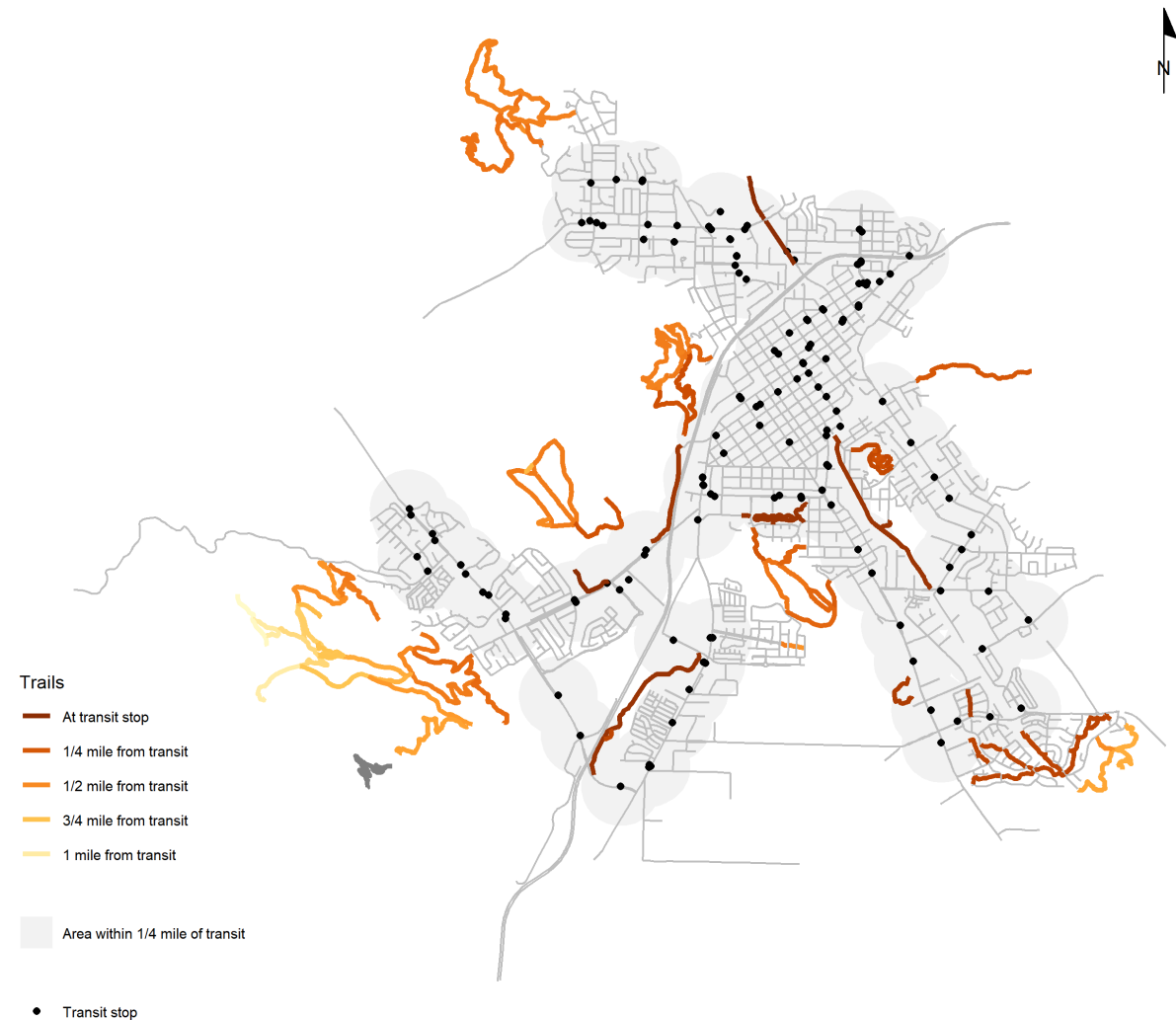


4 nearby dots





# Distance as a characteristic of a feature



Write down two or three questions you could answer about your datasets by calculating distances.

What steps would be involved in answering your questions?