Lab 4: Spatial analysis (1)

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Objective

• Learn how to do spatial analysis in ArcGIS
ArcGIS tool for this lab

• Geostatistical Analyst
Subset the data

• Why take subsets?
  – To process data faster. (original data is huge)
  – To allow you test the accuracy of the entire data.

• “Training" set vs. "testing" set
  – Training sets are used to derive a model
  – Testing sets are used in testing the model

• Why use random sample?
  – To avoid bias
Notes

• Question 2

Does zip compression work better (higher compression ratio) for vector data or raster data?

Zip (size?) --> e00 (size?) --> coverage (size?)
Zip (size?) --> e00 (size?) --> DEM (size?)

Compression ratio = (size of zip) / (coverage or DEM)
Notes

• Question 4
  How many parcels along Del Playa in Isla Vista are valued over $750,000?

• Solution: two queries
  – From the sbvalues, "COMBINEVAL" > 750000
  – From the road data (in lab 2), "NAME" = 'DEL PLAYA'
Assignment

• Finish exercise I.
• Two-week lab. Don’t need to turn in next week.