Lab 4: Spatial analysis (2)

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Purpose

• Learn how to use ModelBuilder to create your own tool
Why do we need ModelBuilder

- Create the tools which are not directly provided in ArcGIS
Advantages of ModelBuilder

• It records all of the steps involved in a procedure
• It allows the procedures to be easily repeated and shared with others
• It provides a visual representation to help understand what is going on in the procedure
The differences among *Identity*, *Union* and *Intersect*

- **Identity**
  - Output area: the input feature class
  - Input feature types: point, polyline, polygon
  - Attributes from the identity features will be imported to their overlapped features.
The differences between *Identity*, *Union* and *Intersect*

- **Union**
  - Output area: the combination of all the input feature classes
  - Input feature types: polygon
  - Attributes from all the input features will be written to the output feature
The differences between *Identity*, *Union* and *Intersect*

- **Intersect**
  - Output area: the intersection part
  - Input feature types: point, polyline, polygon
  - Overlapped features will get attributes from the input feature classes
Notes

• Save your model once it is done!
• If you close ArcMap without saving your model, you will have to build it again.
Notes

• Question 9  (20 pts total)
  – Write an analysis of the environmental characteristics of the Mayan archaeological sites in the sample.
  – 4 points for each of the four questions, and 4 points for the overall quality of the report.  
    \((4 \times 4 + 4 = 20)\)
To turn in

• The question sheet, with typed answers
• Map and Graphic for Santa Barbara analysis
• Graphic of your ModelBuilder Model

• Due: Next Wednesday (Feb. 29th)