



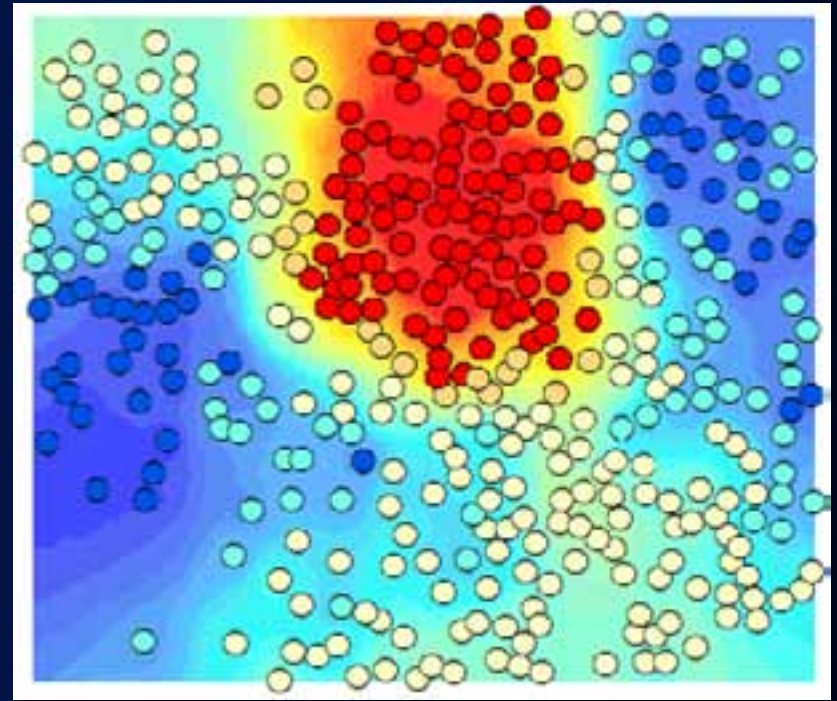
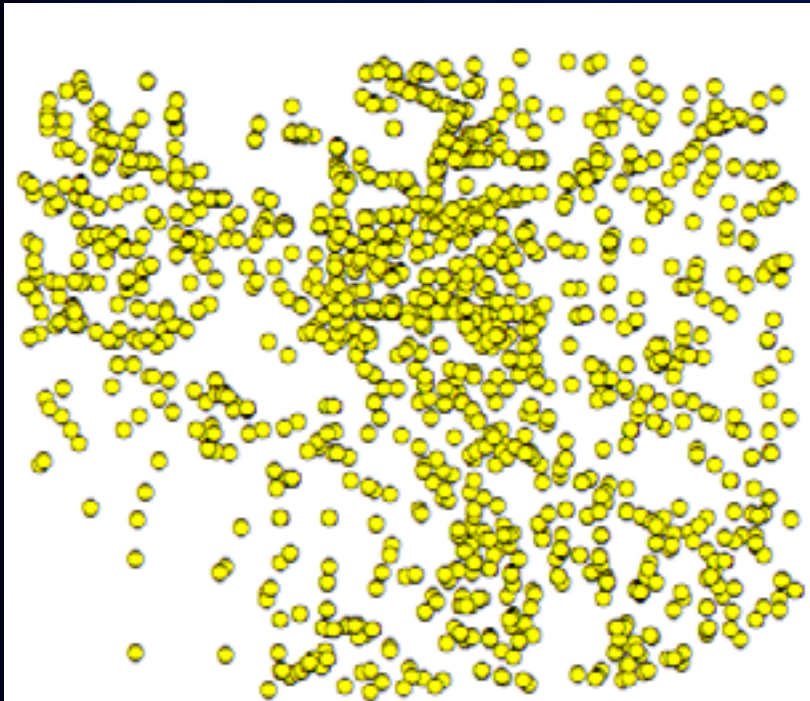
Esri International User Conference | San Diego, CA
Technical Workshops | Tuesday, July 12, 2011

What is Spatial Analysis?

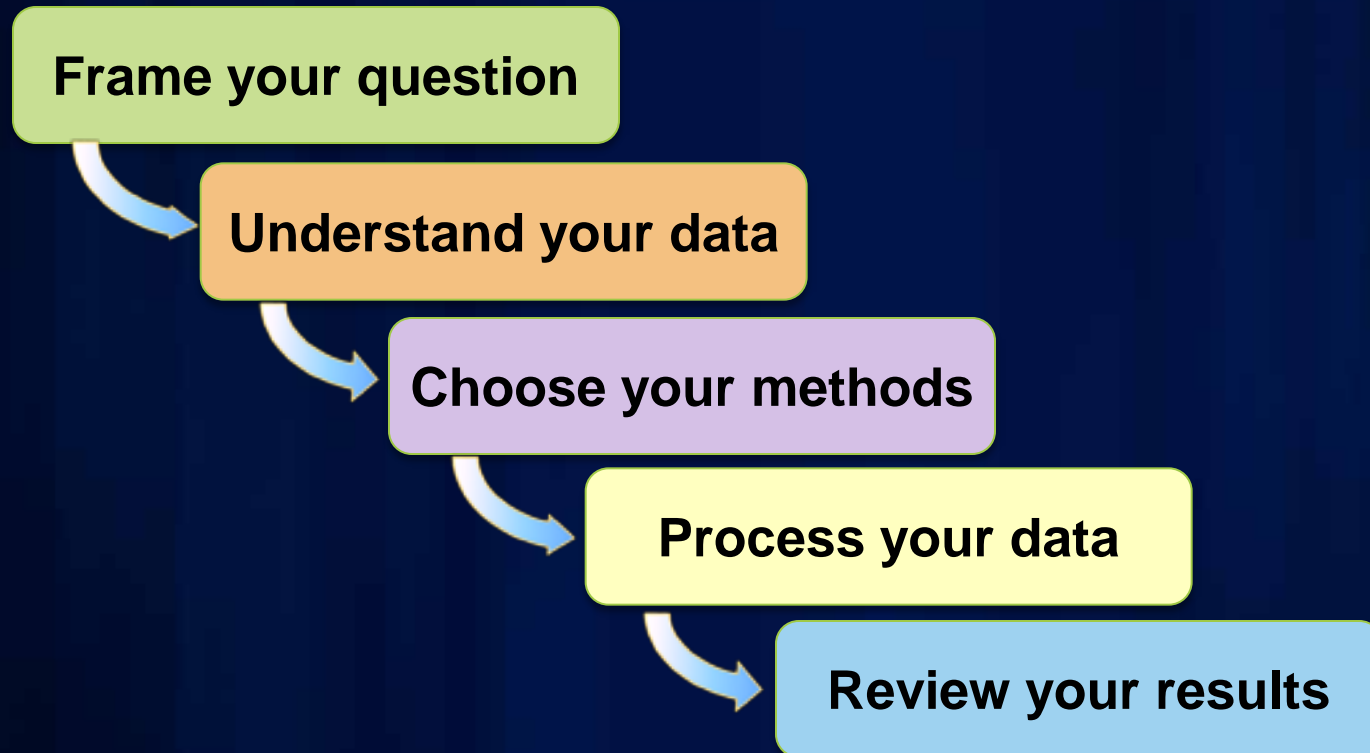
Rudy Prosser



Spatial analysis is...

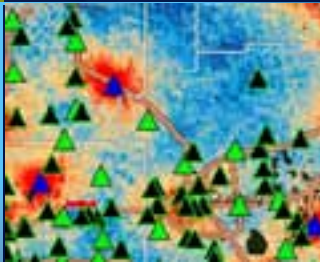
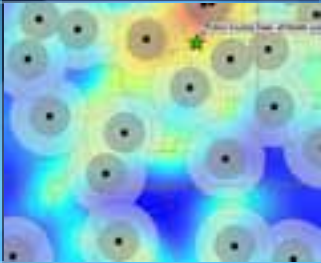


Spatial analysis framework



DeKalb County Board of Health
Fulton County Dept. of Health and Wellness/District 3, Unit 2, Office

A sample analysis



Analysis 1

Question: What is the distribution of population changes between CY2000 and CY 2010?

Data: US Counties, Census information for 2000, 2010

Method: Calculate the difference in population county-by-county

Perform: Use the Field Calculator

$\text{PopulationChange} = \text{CY2010} - \text{CY2000}$

Review:

Analysis 2

Question: What is the distribution of normalized population changes between CY2000 and CY 2010?

Data: US Counties, Census information for 2000, 2010

Method: Calculate the difference in population county-by-county

Perform: Use the Field Calculator

$$\text{PopulationChange} = (\text{CY2010} - \text{CY2000}) / (\text{CY2010} + \text{CY2000})$$

Review:



Session Evaluation - www.esri.com/sessionevals

What is spatial analysis...

Process

Examine

Answer

Seek

Explain

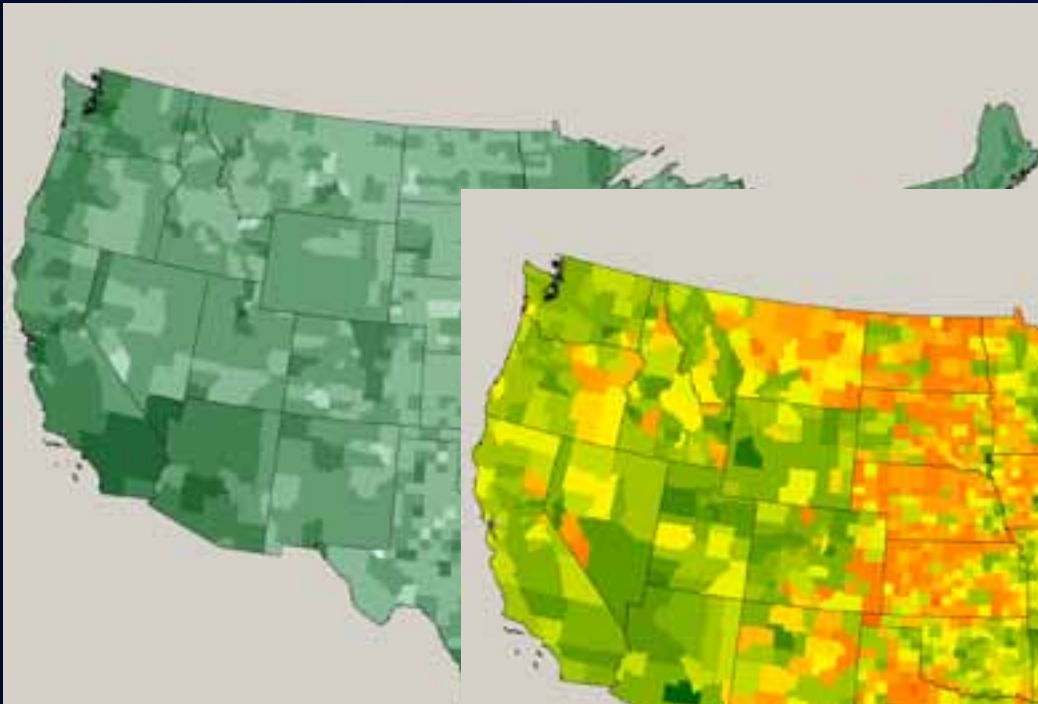
Method

Understand

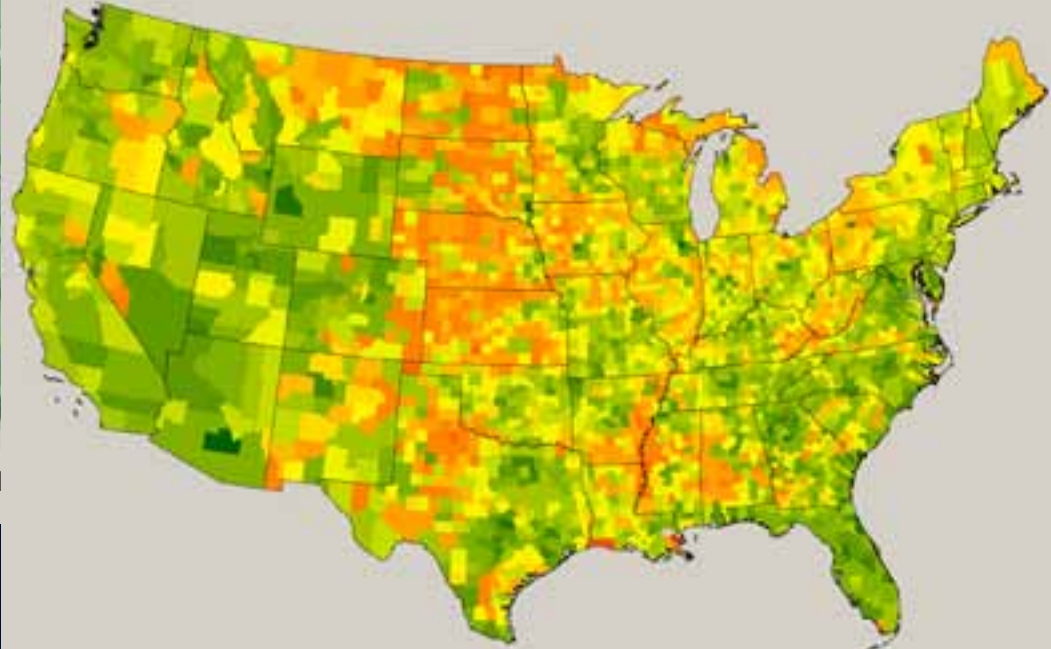
Technique

Study

Spatial analysis is...



2010 Population by County



2010 Percent Change in Population by County