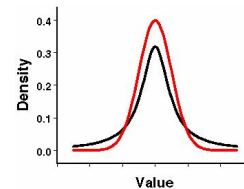
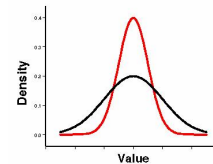
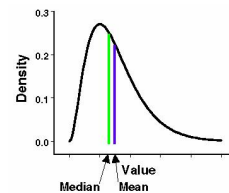


Exploratory Spatial Data Analysis (ESDA)

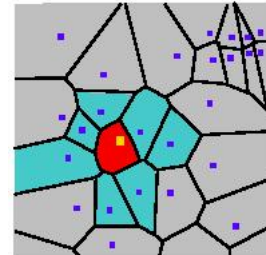
Summary Statistics

- Location
 - Mean, median, mode
 - Quantiles: quartiles, percentiles
- Spread
 - Variance, standard deviation
- Shape
 - Skewness – positive, negative
 - Kurtosis – leptokurtic, platykurtic

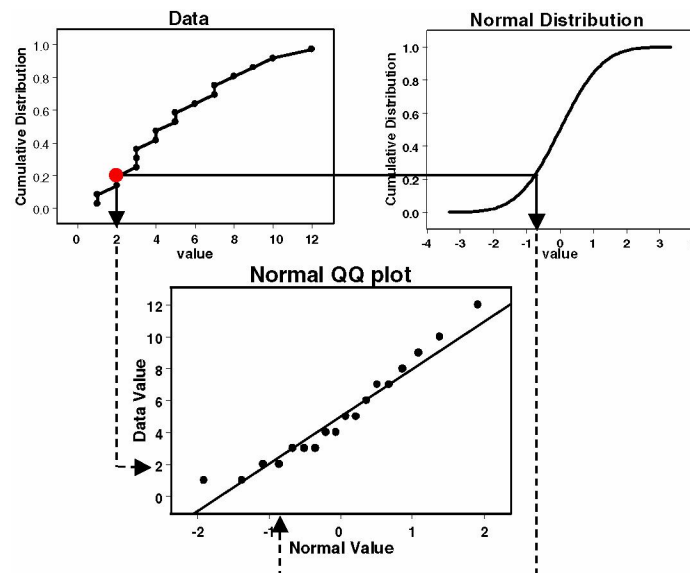


Voronoi Map (Thiessen Polygons)

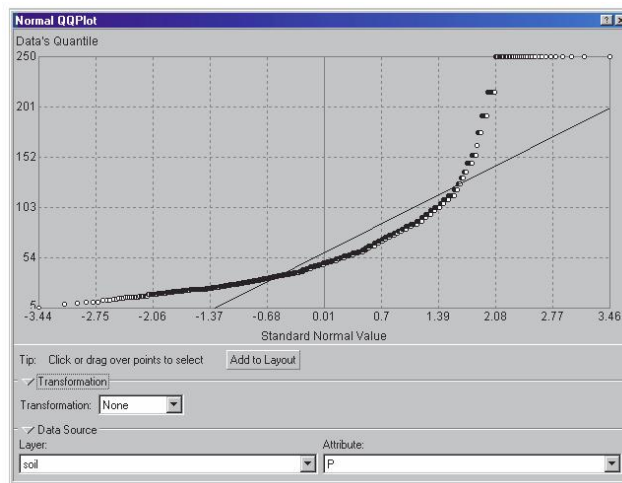
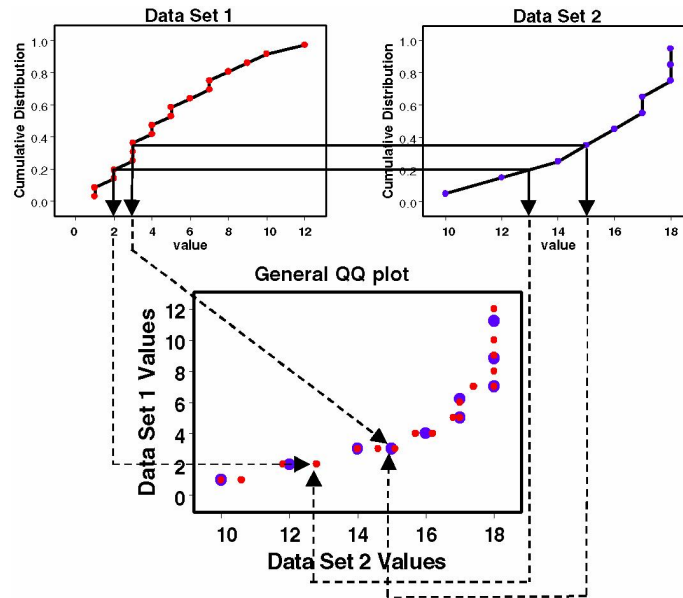
- Why use a Voronoi map?
- Assigning values to polygons
 - Simple
 - Local statistics
 - Mean
 - Standard deviation
 - ...
- ArcGIS tools
 - Proximity toolbox: Create Thiessen Polygons
 - Geostatistical Analyst toolbar: Voronoi map



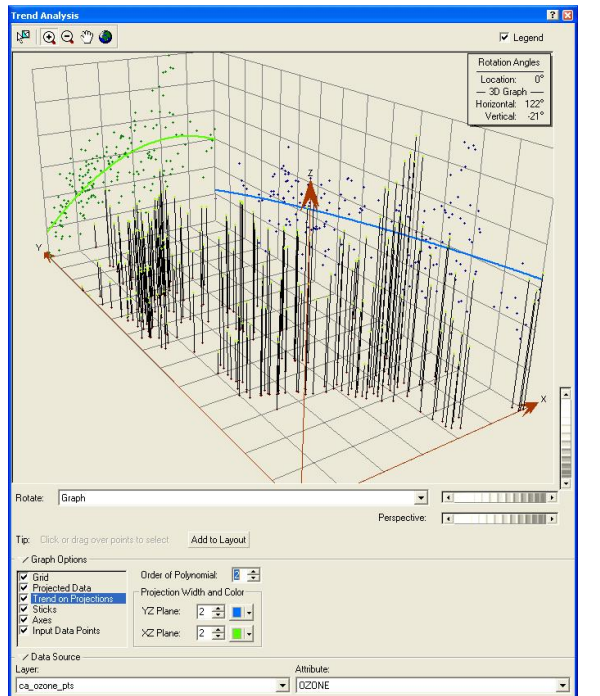
Comparing Distributions – Normal QQPlot



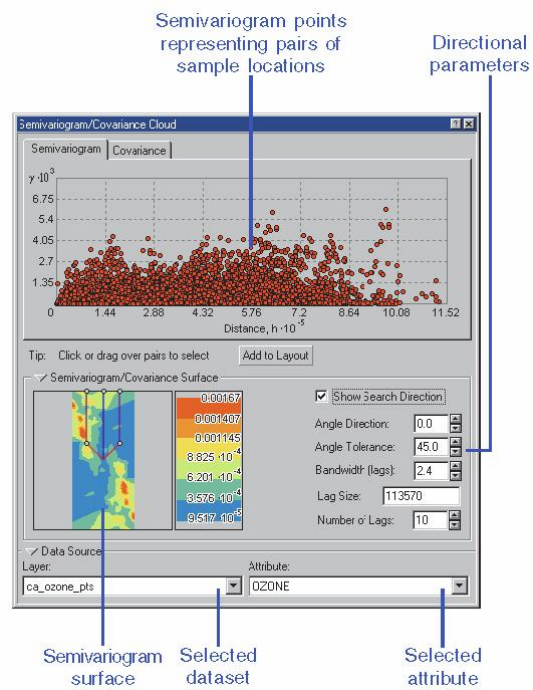
Comparing Distributions – General QQPlot



Trend Analysis

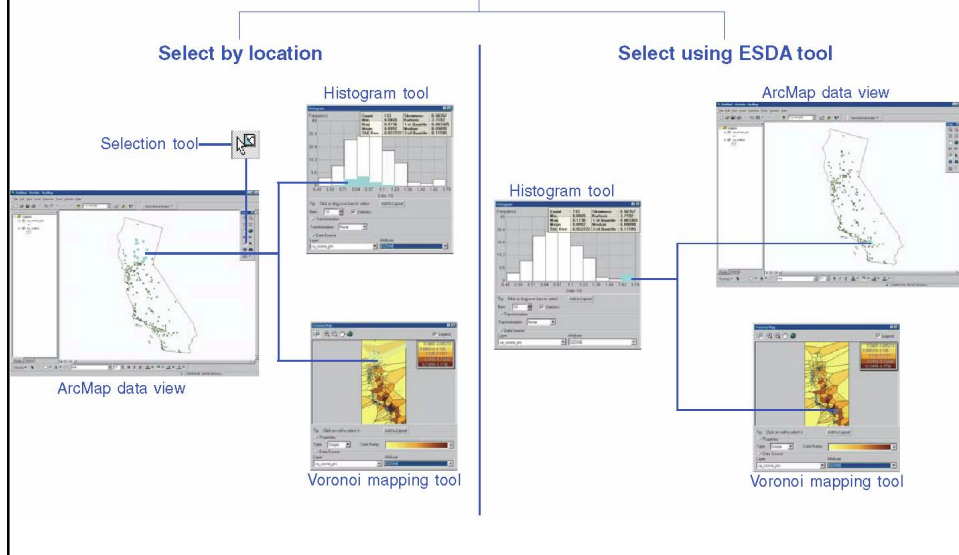


Semivariogram Cloud



Brushing & Linking

Selection of Data Points



Crosscovariance Cloud

