Raster Sampling Tool

Ron Mosgrove Geog 590 GIS Programming Fall 2007



ArcObject Classes/Interfaces

- Document (type IMxDocument)
 - Provided by ArcGIS application as ThisDocument
- Map (type IMap)
 - Accessed as .FocusMap in Document
- Layer (IRasterLayer)
 - Accessed as .SelectedLayer in IMxDocument
 - Used to create or modify a Raster layer
- LayerExtent (IEnvelope)
 - Definition of the data frame that contains the layer
 - Accessed as . DataFrameExtent in IRasterLayer
 - Used to get the bounds of the raster display



Algorithm

- Verify the environment
 - Raster layer is selected
 - Data type is one we support
- Get Raster boundaries and definitions
 - Xmin,xmax,height,width
 - Data type, NoDataValue
- Get User Selection
 - RubberBand box
 - save bounds from envelope
 - Bounds clipped to the limits of the raster





