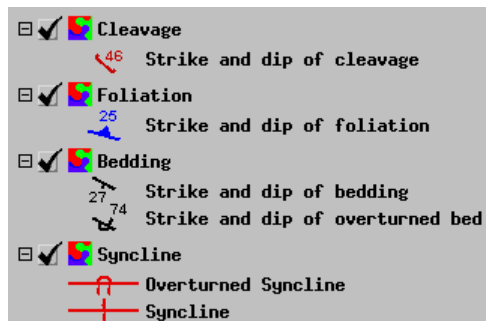


# Legend Samples for CartoScript Styles

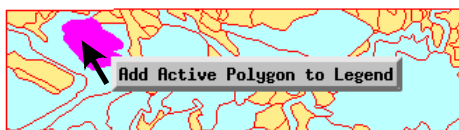
CartoScripts give you the ability to develop vector point and line styles that are data-dependent. For example, a CartoScript can draw different point or line symbols depending on database values associated with each element, or vary point symbol orientation. You can now create legend samples for vector elements that you have styled using CartoScripts or other style scripts. To do so you use the GeoToolbox selection tool in the View window to select a representative element for each script “style” in



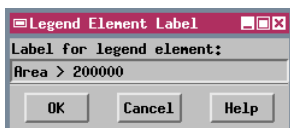
Examples of several point and line symbols styled by CartoScript that have been added to LegendView.

## To create a legend sample for an element styled by script:

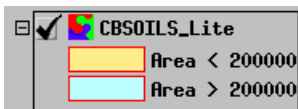
1. Make sure the element type is selectable in the view window
2. Select the GeoToolbox from the View window
3. Turn on the Select tool in the GeoToolbox



4. Select the element, press the right mouse button, and choose “Add Active ... to Legend” from the pop-up menu



5. Type label text into the pop-up Legend Element Label window



6. The new sample appears in LegendView

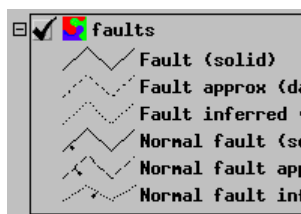
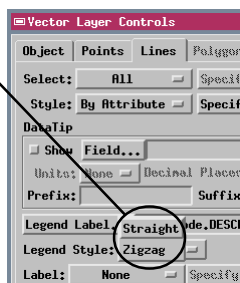
the layer, use the right mouse-button menu to add that element to the legend, and provide a legend label (see the box to the left). For example, the Syncline layer in the LegendView excerpt above includes two different types of line symbol rendered by a CartoScript. One line styled with the overturned syncline symbol was selected and added to the legend, then one styled with the normal syncline symbol was added. Each legend sample is drawn by the script using the database attributes of the element selected for it. (The list of elements selected for the legend is maintained in a legend element selection table for that vector element type. This table is created automatically when you add elements to the legend.) If you change your mind about an element you have added to the legend, you can simply reselect the element and use the right mouse button menu to remove it from the legend.

Once you have selected legend samples for points, lines, or polygons in a vector object, you can also create a legend using the scripted symbols in a map layout for printing. Simply create a multi-object legend, add the appropriate element type for that object, and the scripted legend samples appear automatically in the legend. The color plate entitled *Geologic Map of the Granite Gulch Study Area, Inyo County, California* includes a multi-object legend identifying numerous structural symbols rendered by CartoScript.

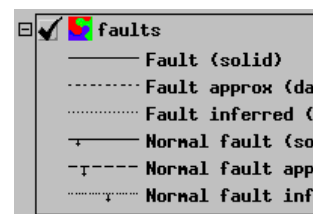
You can use several new variables in your CartoScripts to execute special drawing instructions (such as scaling symbols to the sample rectangle) when any legend sample is drawn or just when a LegendView sample is drawn. For more information see the tutorial booklet *Using CartoScripts*.

You can now set line samples in LegendView to draw straight or with a zigzag pattern (the default) for individual vector objects. To do so you use the new Legend Style menu on the Lines tabbed panel of the Vector Layer Controls window. This choice is available for all line style options. The Straight legend style option is particularly appropriate for lines with complex symbology rendered by CartoScript, such as the syncline symbols shown above. Multi-object legends provide separate control over line sample shape.

## Line Sample Styles in LegendView



Zigzag line samples in LegendView



Straight line samples in LegendView