

Class Breaks Renderer

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Objects Used

- iMxDocument
- iLayer
- iClassBreaksRenderer
- iSimpleFillSymbol
- iGeoFeatureLayer
- iRGBColor

Objects & Variables

```
Dim pMxDoc As IMxDocument ' pointer to this document
Set pMxDoc = ThisDocument ' sets it equal to the current *.mxd
Dim pLayer As ILayer ' pointer to a feature layer
Set pLayer = pMxDoc.SelectedLayer ' user selects a layer
Dim pCBR As IClassBreaksRenderer ' pointer to a CBR
Set pCBR = New ClassBreaksRenderer ' make a new CBR
Dim pGFLayer As IGeoFeatureLayer ' pointer to a GFL
Set pGFLayer = pLayer ' set it equal to the current layer
Dim pFill As ISimpleFillSymbol ' pointer to a SFS
Set pFill = New SimpleFillSymbol ' make a new simplefillsymbol

Dim pDefaultColor As IRgbColor 'pointer to an IRgbColor
Set pDefaultColor = New RgbColor ' make a new one

Dim lngBreakCount, i As Long ' the # of breaks and a counter used for the ' loop
Dim dblBreakPos, dblTmp As Double ' the break position value
                                     'and a tmp holder of the position: used for comparisons
Dim RGBa, RGBb, RGBc As Integer ' variables to hold user choice of colors
```

Fields, Loops, Conditional Statements, and Screen Refreshes

- You need to specify the field to be classified (e.g., "Value", "Area", etc.)
- I used a loop to set the value (numbered range) of each desired break and to obtain a RGB color for said break.
- Within the loop I made sure the user enters relevant values for the break position.
- Finally, assign the pCBR (renderer) to the iGeoFeatureLayer & then assign that to the iMxDocument.
- That's it.

The Program and a Test Run

Thanks to the "Getting to Know ArcObjects Textbook" for providing example code.