

Setting Transparency for all datasets in a Raster Catalog within ArcMap

I know I talked about this in our last conference call but I haven't had a chance to write it up and I hit a snag in the process. Attached is a document containing instructions on how to make image catalogs in ArcGIS 8.x have whatever colors you want become transparent for a certain project. You have to save the project for the transparency to stick. I was told you can run this script and then save the image catalog as an .lyr file and it will hold its transparencies when you bring the .lyr file into a new project. I have tried it and it does not work for me (yet...I'm still trying to figure out why not).

Good Luck!

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Contents of the Attached Document:

Here is some sample code that will function under ArcGIS 8.x - ArcGIS 8.2 (at least). This will allow the user to render all the images in a raster catalog the same way a single image from the image catalog is rendered. Set the nodata layer, usually 255, to transparent.

Some reformatting may be required in the code below.

1. When in ArcMap, go under 'Tools' on the top menu bar and down to 'Macros'.
2. Select 'Visual Basic Editor' in the dropdown menu.
3. In the top left corner of the screen is a box titled 'Project-Project'. Under the 'Project' subfolder, double click on 'ArcMap Objects' and then double click on 'ThisDocument'.
4. Copy the text grouped below these instructions and paste them into the "ThisDocument" window that pops up in the middle of your screen.
5. Now go back to the ArcMap session you have open.
6. Add an image contained in the catalog to the bottom of the toc.
7. Add the image catalog, below the single image, so it is the last layer.
8. Render the single image the way you want the catalog to appear.
9. Go to the Tools -> Macros -> Run the ChangeCatalogRenderer1 macro.
10. Save the project.
11. Next time you open the project, the catalog should render correctly.

```
Sub ChangeCatalogRenderer1()  
    'Uses last two layers to set raster catalog rendering. Layer n-1  
    'must be an image from the catalog with rendering set.  
    'Layer n must be the catalog.  
    Dim pMxDoc As IMxDocument  
    Set pMxDoc = ThisDocument  
    ' Get raster layer (drg)  
    Dim pRasLyr As IRasterLayer  
    Set pRasLyr = pMxDoc.FocusMap.Layer(pMxDoc.FocusMap.LayerCount - 2)  
    ' Get raster renderer from the raster layer  
    Dim pRasRen As IRasterRenderer  
    Set pRasRen = pRasLyr.Renderer  
    ' Apply the raster renderer to the catalog layer (imgcat)  
    Dim pCatLyr As IRasterCatalogLayer  
    Set pCatLyr = pMxDoc.FocusMap.Layer(pMxDoc.FocusMap.LayerCount - 1)  
    Set pCatLyr.Renderer = pRasRen  
    pMxDoc.ActiveView.Refresh  
End Sub  
  
Private Function MxDocument_OpenDocument() As Boolean  
    ChangeCatalogRenderer1  
End Function
```