



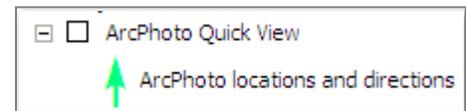
## Create Photo Hyperlinks in ArcMap

### Abstract

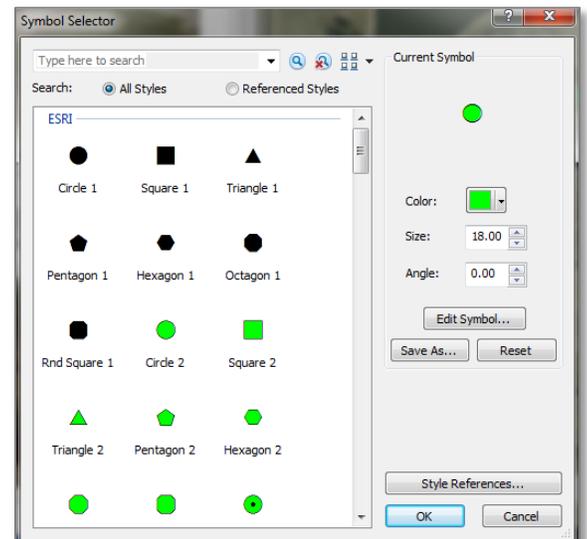
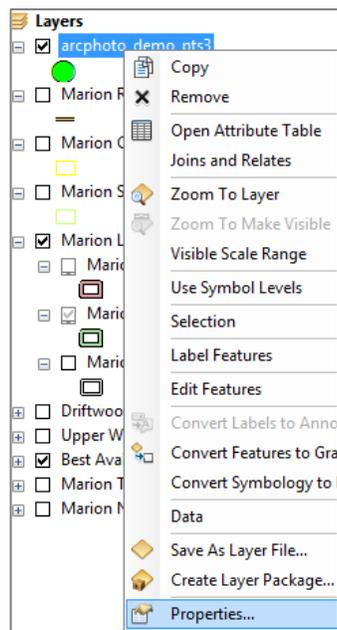
This guide details how the shapefile created by the *Export Photo Points as Layer* guide can be configured to enable hyperlinking. Hyperlinking allows a user to click a feature on the map to open another file, in this case, the full-sized photo at a given site.

### Details

1. Make sure the photos to be used are stored in a destination on the computer or network where they are unlikely to be moved again for some time.
2. Load photos into ArcPhoto.
3. Rename photos in ArcPhoto until you are satisfied with the final file names.
4. Perform the steps in the *Export Photo Points as Layer* guide. The best results are from saving the resulting shapefile to the same directory where you are storing the photos. When finishing the process, be sure to select, "Yes," when prompted if you want to add the layer to the map.
5. Turn off or remove the *ArcPhoto Quick View* layer.

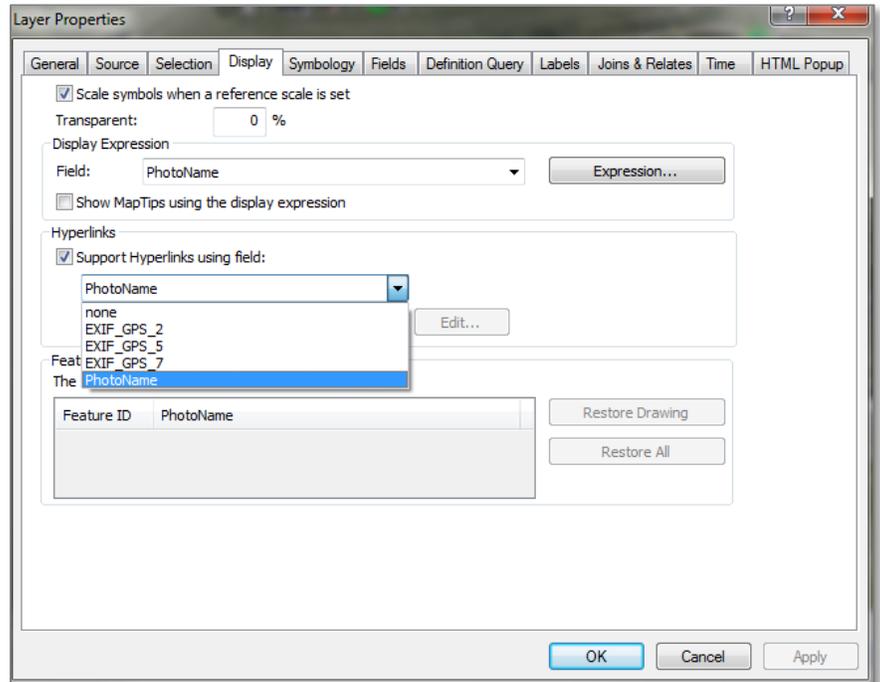


6. Set symbology for the point symbol on the shapefile layer of points you created from exporting the Quick View layer. Typical changes to make the points more visible are to increase the symbol size and change the color to a bright color.
7. **Right-click** the layer of your photo points created in step #4 and **choose Properties**.



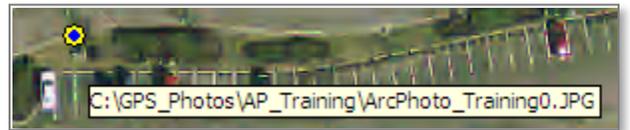


8. In the *Properties* window, go to the *Display* tab.
9. On the *Display* tab, place a check mark in the box to *Support Hyperlinks using field*:
10. In the drop-down beneath the check box, **select *PhotoName*** as the field to be used for hyperlinks.
11. **Click *OK***.

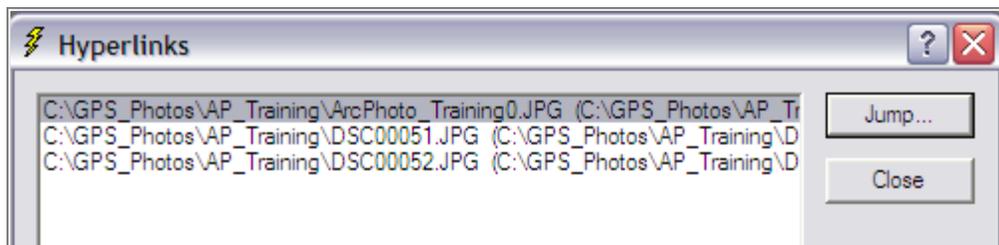


12. **Click** the hyperlink tool from the ArcMap tools menu.  While this tool is active, features with hyperlinks will be highlighted on the map.

13. **Hover** the hyperlink tool over a feature that has hyperlinks. The hyperlink tool cursor will change colors and display a tooltip of the path and file name. You can now **click** the feature. This will trigger the hyperlink and open the associated file in its default viewer.



14. If you clicked on multiple features, a window will open prompting which feature's hyperlink you actually wanted to use. Select the desired item from the list and **click *Jump...***. You can repeat this process and jump to a different choice to see photos associated with the other features.



15. As long as the path to the photo files and the photo file names remain intact, hyperlinking can be configured within the photo points shapefile. This can be complex to manage in the Toolkit environment. The next section explains how to make your hyperlinks universal for all Toolkit users and how to use hyperlinks from a Toolkit folder as a Toolkit user.



### Making Hyperlinks Universal to Toolkit Users

If you've saved your photos in a Toolkit customer's folder, such as within the, "Determinations," sub-folder, you need to take additional steps so that other users can access hyperlinks in your MXD project and photo points shapefile. That is because Toolkit check-outs put the customer folder in a path that uses your user name and that user name will not work for others that check-out the folder. The workaround is to modify the shapefile's table that stores the path names and to update the Hyperlink Base path in the MXD's Map Properties.

#### Modify the Shapefile's Table

Perform this procedure to set the photo names within a shapefile's table in a way that removes the user profile directory path from the beginning part of the path/file name.

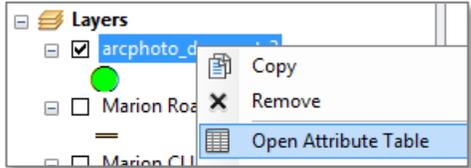
1. **Right-click** the photo points shapefile and **click *Open Attribute Table***. Adjust the table's size and position on screen so you can work with it.
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2. **Right-click** the photo points shapefile and **highlight *Edit Features*** →. Then **click *Start Editing*** from the pop-up menu that appears. **Click *OK*** to skip through projection warnings, if any, until you are in the edit session.
  3. Click in the cell for a record in the *PhotoName* column of the table. Within the cell, **highlight** "C:\Users\firstname.lastname\" from the path name and then **press *Backspace*** to delete that part of the path. Be sure to include the "\" that follows your last name. The resulting name should be: "My Customer Files Toolkit\<customer\_folder\_name>\<customer sub-folder>\<photoname>.JPG"
  4. Repeat step #3 in this section for every record of photo name in the table.

Table		
arcphoto_demo_pts3		
EXIF_GPS_7	EXIF_DateT	PhotoName
	8/3/2012	My Customer Files Toolkit\CLUTEST-----CLUTEST\Determinations\AP_Demo0.JPG
	8/3/2012	My Customer Files Toolkit\CLUTEST-----CLUTEST\Determinations\AP_Demo1.JPG
	8/6/2012	My Customer Files Toolkit\CLUTEST-----CLUTEST\Determinations\AP_Demo2.JPG
	6/25/2013	My Customer Files Toolkit\CLUTEST-----CLUTEST\Determinations\AP_Demo3.JPG
	6/25/2013	C:\Users\chris.morse\My Customer Files Toolkit\CLUTEST-----CLUTEST\Determinations\AP_Demo4.JPG

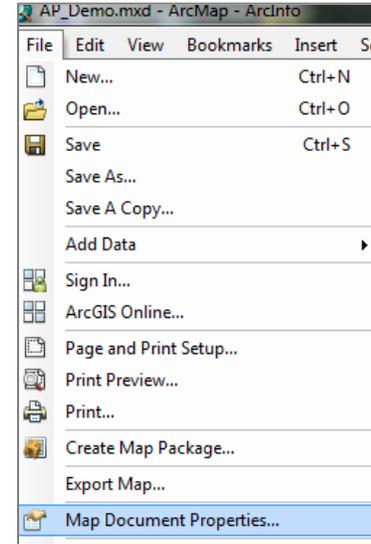
5. After changing all the paths for the photo names, **Save Edits** and **Stop Editing**. If you have no Editor menu for this, turn on the default ArcMap Editor menu by clicking **Customize** → **Toolbars** → **Editor**, and then save your edits and stop editing.



### Set the Hyperlink Base in Map Properties

Perform this procedure when you check out a Toolkit customer folder that contains hyperlinked data in order to set the paths for the hyperlinks to function with your user profile. This procedure is typically not needed for project that are not based in the Toolkit environment.

1. In ArcMap, click **File** → **Map Document Properties...**



2. In the *Hyperlink base:* field, **type** the path to your profile on the computer. The location is: "C:\Users\*<firstname>*.\<i>lastname>"  
  
Example: C:\Users\john.smith  
  
Do not use quotes. Do not put a "\ " after your name.
3. **Click OK.**
4. Hyperlinks should now be enabled for data stored in your local check-out of the customer folder.

### Troubleshooting Hyperlinks

1. Make sure the layer's properties on the *Display* tab are set to use hyperlinks with the appropriate attribute field selected in the hyperlink drop-down list.
2. Make sure the path and filename in the layer's attribute table for the hyperlinked field is populated with valid paths and file names. If using Toolkit, the path should not include the user's directory name and a hyperlink base path must also be set in *Map Document Properties* that lists the current user's directory name instead.

