ArcGIS 8.3 *Tips and Tricks*

National Cartography
& Geospatial Center
501 W Felix, PO Box 6567
Fort Worth, TX 76115

Phone:
(817) 509-3400

Fax:
(817) 509-3469

We're on the Web!
www.ftw.nrcs.usda.gov
www.ncgc.nrcs.usda.gov

Terminology

Migrating from
ArcView 3.x to ArcGIS 8.x

The table below compares the terminology used to describe core ArcView 3.x and ArcGIS 8.x.

ArcView 3.x	ArcGIS 8.x
Project	Map document
Theme	Layer
View, View frame	Data frame
Table of contents	Table of contents
Layout	Layout, Layout view
Projection	Coordinate system
Hotlink	Hyperlink
Charts	Graphs
Avenue scripts	Visual Basic for Applications (VBA) macros
Select by Theme	Select by Location
SQL Select	Select by Attributes
Active theme	Selectable layers (Each tool presents a list of layers to use.)
AVL (legend file)	Import symbology from layer file
Ftab	Recordset
Spatial join	Join by Location
Legend Frame	Insert Legend
North Arrow Frame	Insert North Arrow
Table Frame	Add table to layout (Table menu)
Scale Bar Frame	Insert Scale Bar
Picture Frame	Insert Picture
DDE	OLE

ArcGIS 8.3 Tips & Tricks

Symbol window	Symbol Selector
Symbol files	Styles
Promote Selected	Open Table for Selected
Multiple layouts	Multiple documents
Database theme	Geodatabase layer
CAD Reader	CAD layer
Grid theme	Raster layer
Image theme	Raster layer
Image catalog	Raster catalog
TIN theme	TIN layer
Feature theme	Feature layer
Convert to Shapefile	Data>Export
Add theme	Add data
Extensions	Extensions and toolbars
Brightness theme (ArcView Spatial Analyst)	Transparency
Blurb/Callout tool	Text Callout tool
Add/Remove field	Properties>Fields (ArcCatalog) or Table window (ArcMap)
Create index	Properties>Fields (ArcCatalog)
New shapefile	New shapefile (ArcCatalog)
Sort	Table window>column (right-click)>Sort
Summarize	Dissolve Wizard
SQL Connect	Add OLE DB Connection (ArcCatalog)
View (Avenue)	FocusMap (VBA)
Application (Avenue)	Mxapplication (VBA)

For more information, please contact:

ESRI Authorized Instructors

Paul Fukuhara
(817) 509-3395
pfukuhara@ftw.nrcs.usda.gov

Dwain Daniels
(817) 509-3358
wdaniels@ftw.nrcs.usda.gov

Patsy Hudson
(817)-509-3361
phudson@ftw.nrcs.usda.gov

Steve Nechero
(817) 509-3366
snechero@ftw.nrcs.usda.gov

Reference:
ArcGIS 8.3 Desktop Help
ESRI® ArcMap™ 8.3

ArcGIS 8.3 *Tips and Tricks*

National Cartography
& Geospatial Center
501 W Felix, PO Box 6567
Building 23
Fort Worth, TX 76115

Phone:
(817) 509-3400

Fax:
(817) 509-3469

We're on the Web!
www.ftw.nrcs.usda.gov
www.ncgc.nrcs.usda.gov

How to import an ArcView 3.x project into ArcMap

- Start ArcMap and open a blank map document.
- Click the File menu and click Import from ArcView project.
- Navigate to and select the ArcView project you would like to import to ArcMap. If you are importing a layout, choose the layout you would like to import from the Layouts dropdown list. The views that are in the layout will be automatically selected. Views that are not in the selected layout may be selected interactively.
- Click OK to import the project. The selected import layout is now the layout view in ArcMap. Some graphic and text adjusting may be required to get the desired look for the map layout. The imported views are now separate data frames located in the table of contents.

For more information, please contact:

ESRI Authorized Instructors

Paul Fukuhara
(817) 509-3395
pfukuhara@ftw.nrcs.usda.gov

Dwain Daniels
(817) 509-3358
wdaniels@ftw.nrcs.usda.gov

Patsy Hudson
(817)-509-3361
phudson@ftw.nrcs.usda.gov

Steve Nechero
(817) 509-3366
snechero@ftw.nrcs.usda.gov

Tips

- ArcMap does not support multiple layouts in a document; you must choose only one layout to import. If you have multiple layouts, you can also import each of the layouts in your ArcView 3.x project into separate ArcMap map documents (.mxd).

Move from layout view to data view to see a single data frame in the window. Having multiple data frames in ArcMap is the equivalent of having multiple views in ArcView GIS 3. The active data frame will be visible in the view and will be the only data frame with the title in bold letters. To activate a different data frame, right-click the data frame's title in the table of contents and select Activate from the list of options.

Reference:
ArcGIS 8.3 Desktop Help
ESRI® ArcMap™ 8.3

ArcGIS 8.3 *Tips and Tricks*

National Cartography
& Geospatial Center
501 W Felix, PO Box 6567
Building 23
Fort Worth, TX 76115

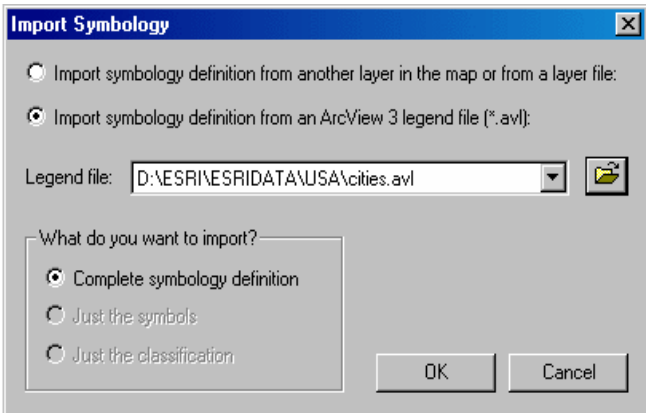
Phone:
(817) 509-3400

Fax:
(817) 509-3469

We're on the Web!
www.ftw.nrcs.usda.gov
www.ncgc.nrcs.usda.gov

Importing an ArcView 3.x legend into ArcMap

ArcView GIS 3 uses the ArcView legend (.avl) file to store symbology for vector themes. Similarly, ArcMap uses a layer(.lyr) file to store symbology for geographic datasets. You can use ArcView GIS legend files to symbolize data in ArcMap. This is done using the "Import symbology definition from an ArcView 3 legend file (*.avl)" option on the Import Symbology dialog box.



With this option selected, a new layer file (.lyr), including the imported symbology from the legend file (.avl), is created in ArcMap.

The ArcView legend importer supports the following legend types:

- Single symbol
- Unique value
- Graduated color
- Graduated symbol

ArcMap can't import dot density or chart legends for vector themes. The ArcView legend importer can import polygon symbology for solid fills but not for patterned fill symbols. Imported symbology for complex line symbols will retain color and size only but not layered line symbols.

ArcMap can't import legends for raster themes.

For more information, please contact:

ESRI Authorized Instructors

Paul Fukuhara
(817) 509-3395
pfukuhara@ftw.nrcs.usda.gov

Dwain Daniels
(817) 509-3358
wdaniels@ftw.nrcs.usda.gov

Patsy Hudson
(817)-509-3361
phudson@ftw.nrcs.usda.gov

Steve Nechero
(817) 509-3366
snechero@ftw.nrcs.usda.gov

How to import an ArcView GIS 3 legend into ArcMap

1. In the ArcMap table of contents, right-click the layer name and click Properties.
2. Click the Symbology tab.
3. Click the Import button.

   The Import Symbology dialog box appears.

4. Click the option to Import symbology definition from an ArcView 3 legend file (*.avl).
5. Navigate to and open the ArcView GIS legend file you wish to import.
6. Click OK.

Reference:
ArcGIS 8.3 Desktop Help
ESRI® ArcMap™ 8.3

ArcGIS 8.3 *Tips and Tricks*

National Cartography
& Geospatial Center
501 W Felix, PO Box 6567
Building 23
Fort Worth, TX 76115

Phone:
(817) 509-3400

Fax:
(817) 509-3469

We're on the Web!
www.ftw.nrcs.usda.gov
www.ncgc.nrcs.usda.gov

Importing symbolization in ArcMap

About importing symbolization in ArcMap

In ArcView 3.x, you can import symbology for a theme from a legend file. Similarly, in ArcMap you can import symbology for a layer from three different types of sources:

- From another layer in your map
- From a layer file (.lyr)
- From an ArcView legend file (.avl)

Importing symbolization is only partially supported in ArcMap. To ease the transition to ArcMap, you can import symbolization for most types of symbology supported by ArcView GIS 3 (except for rasters). This applies to importing from layers, layer files, and ArcView legend files. You cannot import the following symbology in ArcMap:

- Any raster symbology
- Pie charts, bar charts, and stacked charts
- Proportional symbols
- Quantity-by-category multivariate symbology

You can effectively import all types of symbology by utilizing ArcMap's layer file concept. To use symbology from a layer file with a type of symbology not supported by the Import command, add the layer file and set the data source for the layer to a new data source

How to import symbolization in ArcMap

1. In the ArcMap table of contents, right-click the layer for which you want to import symbology.
2. Click Properties.
3. In the dialog that appears, click the Symbology tab.
4. Click the Import button.
5. Click the first option if you want to import from another layer in your map or from a layer file. Click the second option if you want to import from an ArcView 3.2 legend file.
6. If importing from another layer, choose the layer from the dropdown list.
7. If importing from a layer file or legend file, click the Browse button and choose the file from which you want to import. Click OK.
8. Click OK to close the Import Symbology dialog box.

For more information, please contact:

ESRI Authorized Instructors

Paul Fukuhara
(817) 509-3395
pfukuhara@ftw.nrcs.usda.gov

Dwain Daniels
(817) 509-3358
wdaniels@ftw.nrcs.usda.gov

Patsy Hudson
(817)-509-3361
phudson@ftw.nrcs.usda.gov

Steve Nechero
(817) 509-3366
snechero@ftw.nrcs.usda.gov

Reference:
ArcGIS 8.3 Desktop Help
ESRI® ArcMap™ 8.3

ArcGIS 8.3 *Tips and Tricks*

National Cartography
& Geospatial Center
501 W Felix, PO Box 6567
Fort Worth, TX 76115

Phone:
(817) 509-3400

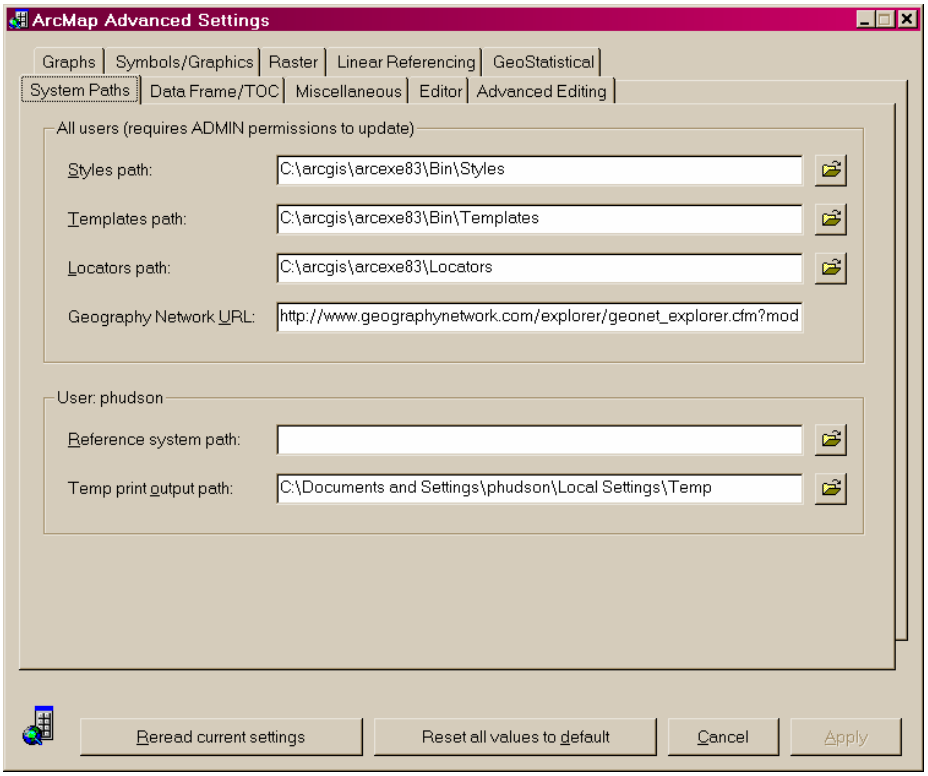
Fax:
(817) 509-3469

We're on the Web!
www.ftw.nrcs.usda.gov
www.ncgc.nrcs.usda.gov

Setting default registry settings in ArcMap

To set the default registry settings for ArcMap for your system paths, templates directory, temporary file folders, data frames, color palatte, symbols and graphics, editing capabilities, etc. go to:

C:\arcgis\arcgis83\utilities\AdvancedArcMapSettings.exe



For more information, please contact:

ESRI Authorized Instructors

Paul Fukuhara
(817) 509-3395
pfukuhara@ftw.nrcs.usda.gov

Dwain Daniels
(817) 509-3358
wdaniels@ftw.nrcs.usda.gov

Patsy Hudson
(817)-509-3361
phudson@ftw.nrcs.usda.gov

Steve Nechero
(817) 509-3366
snechero@ftw.nrcs.usda.gov

Links to keep handy!

http://www.esri.com	ESRI's main web site.
http://support.esri.com	ESRI's online support and knowledge base center.
http://arcscripts.esri.com	Scripts for ESRI software.

Reference:
ArcGIS 8.3 Instructor Notes
ESRI® ArcMap™ 8.3

ArcGIS 8.3 *Tips and Tricks*

National Cartography
& Geospatial Center
501 W Felix, PO Box 6567
Fort Worth, TX 76115

Phone:
(817) 509-3400

Fax:
(817) 509-3469

We're on the Web!
www.ftw.nrcs.usda.gov
www.ncgc.nrcs.usda.gov

Edit shortcut keys

You can use shortcut keys to perform certain functions from within the editing environment of ArcMap. The following sections list the shortcut keys available for each editing tool, and which functions they perform from within that tool.

Sketch Tool

Shortcut key	Editing function
Ctrl + A	Angle
Ctrl + F	Deflection
Ctrl + L	Length
Ctrl + D	Delta X, Y
Ctrl + G	Angle/Length
Ctrl + P	Parallel
Ctrl + E	Perpendicular
Ctrl + T	Tangent Curve
T key	Display the snapping tolerance
F6	Absolute X, Y
F7	Segment Deflection
F8	Streaming

Distance-Distance tool

Shortcut key	Editing function
D key	Distance
R key	Radius

Edit tool

Shortcut key	Editing function
Ctrl	Move the Selection Anchor
Shift	Add to/remove from the selection
C key	Pan
Z key	Zoom In
X key	Zoom Out
N key	Select next feature

Edit sketch

Shortcut key	Editing function
C key	Pan
Z key	Zoom In
X key	Zoom Out
Space bar	Suspend snapping
Ctrl + Delete	Delete Sketch
F2	Finish Sketch
Ctrl + Z	Undo last sketch operation

Trace tool

Shortcut key	Editing function
O key	Offset
Tab	Traces the other side of an edge
Esc	Erases trace

For more information, please contact:

ESRI Authorized Instructors

Paul Fukuhara
(817) 509-3395
pfukuhara@ftw.nrcs.usda.gov

Dwain Daniels
(817) 509-3358
wdaniels@ftw.nrcs.usda.gov

Patsy Hudson
(817)-509-3361
phudson@ftw.nrcs.usda.gov

Steve Nechero
(817) 509-3366
snechero@ftw.nrcs.usda.gov

Rotate tool

Shortcut key	Editing function
A key	Angle
C key	Pan
Z key	Zoom In
X key	Zoom Out

Scale tool

Shortcut key	Editing function
F key	Scale Factor
C key	Pan
Z key	Zoom In
X key	Zoom Out

Edit Annotation tool

Shortcut key	Editing function
Ctrl	Move the selection anchor
Shift	Add to/remove from the selection
N key	Select next annotation
R key	Enter/exit rotate mode
F key	Enter/exit follow feature mode
L key	Flip annotation
O key	Follow feature options
P key	Switch from parallel to perpendicular while in follow feature mode
Tab key	Switch to the other side of line while in follow feature mode
Esc key	Escape the current update
C key	Pan
Z key	Zoom In
X key	Zoom Out

Direction-Distance tool

Shortcut key	Editing function
A key	Direction
D key	Distance
R key	Radius

Error Inspector dialog box

Shortcut key	Editing function
Space bar	Zoom to selected error
Z key	Zoom to selected error

Split tool

Shortcut key	Editing function
Space bar	Suspend snapping
C key	Pan
Z key	Zoom In
X key	Zoom Out

Reference:
ArcGIS 8.3 Desktop Help
ESRI® ArcMap™ 8.3

ArcGIS 8.3 *Tips and Tricks*

National Cartography
& Geospatial Center
501 W Felix, PO Box 6567
Fort Worth, TX 76115

Phone:
(817) 509-3400

Fax:
(817) 509-3469

We're on the Web!
www.ftw.nrcs.usda.gov
www.ncgc.nrcs.usda.gov

File Extensions

ArcGIS file extensions

lyr – Layer file
mxd – ArcMap document
mxt – ArcMap template
mdb – Personal geodatabase (Access 2000 database)
exp – query expression file
prj – projection file
xml – extensible markup language
xsl – extensible stylesheet language
dxf, dwg, dgn – CAD file formats

General file extensions related to ESRI software Products

adf – ARC/INFO coverage data file
afg – Atlas GIS native binary geodataset file
ain – attribute index file
aih – attribute index file
apr – ArcView Project File (ODB format)
avl – legend template file (ODB format)
avp – palette file (ODB format)
ave – Avenue script
avx – ArcView extension file (ODB format)
ai – Adobe Illustrator picture file
bat – DOS batch file
bil – image file (band interleaved by line)
bip – image file (band interleaved by pixel)
blw – world file for bil image
bmp – Windows bitmap image file
bpw – world file for bip or bmp images
bsq – image file (band sequential)
bqw – world file for bsq image
c – C programming language for source code filename
cat – UNIX hyperhelp supporting file
cgm – Computer Graphics Metafile
cls – geocoding classification file
cnt – help file contents
dat – generic data file extension
dat – INFO attribute file
db – Object Database File (also ODB)
dbf – dBASE tabular data file
dbf – Shapefile attribute table file
dbg – problem debug log file
dcp – default codepage file
dct – geocoding dictionary file
dec – UNIX hyperhelp supporting file
def – defaults file (North Arrows, Layout Templates, etc)
dem – Digital Elevation Model file
dgn – Design drawing file (Intergraph)
dir – INFO directory manager file
dlg – Digital Line Graph file
dll – Windows Dynamic Link Library file
doc – MSWord, MS Wordpad document file
dtd – UNIX hyperhelp supporting file
dwg – Drawing file (AutoCAD)
dxf – Drawing exchange file
e00 – ARC/INFO export file
eps – Encapsulated PostScript
exe – DOS/Windows executable file
fbn – spatial index file for read-only datasets
fbx – spatial index file for read-only datasets
fls – Windows help supporting file
ftg – UNIX help supporting file
fts – UNIX help supporting file
gen – ArcINFO Ungenerate format
gfw – world file for gif image
fig – image file (CompuServe)
hdr – header file (for ArcView extensions or TIF images)
hlp – Windows help file
htm – WWW file (hypertext markup, 3-character DOS version)
html – WWW file (hypertext markup language, UNIX version)
ico – Icon file
idx – geocoding index for read-only datasets
img – ERDAS Imagine image file
ini – initialization file
ixc – geocoding index for read-write coverages
ixs – geocoding index for read-write shapefiles
jpg – image file (Joint Photographic Experts Group)
key – geocoding matching keys (ODB format)
lin – ArcINFO lineset symbol file
lnk – Windows shortcut icon link file
mat – geocoding matching parameters file
mcp – image file (MacPaint)
mid – MapInfo interchange format (always paired with "mif")
mif – Mapinfo interchange format (always paired with"mid")
mrk – ArcINFO markerset symbol file (not compatible w/ArcView)
mxc – geocoding index for read-write coverages (ODB format)
mxs – geocoding index for read-write shapefiles (ODB format)
nit – INFO table definitions file
ndx – fonts index file (UNIX only)
nls – Codepage language files
odb – Object Database ASCII file (ODB format)
pat – preferences definition file
pif – Windows program information file (for DOS programs)
pps – processing set codes
prj – projections definition file
ps – PostScript file
rlc – image file (run-length coding)
rs – image file (raster snapshot|Sun rasterfile)
sbn – spatial index for read-write shapefiles
sbx – spatial index for read-write shapefiles
shd – ArcINFO shadeset symbol file
shp – Shapefile (stores feature geometry)
shx – Shapefile (stores file lookup index)
stn – geocoding standardization file
tab – lookup file
tbl – geocoding support table
tif – image file (Tag Image Format file)
tmp – temporary file
ttf – TrueType font file
txt – text file (usually ASCII)
xbm – image file (X Bitmap)
wmf – image file (Windows Metafile)
wld – world file for CAD datasets
wri – Windows Write.exe file

For more information, please contact:

ESRI Authorized Instructors

Paul Fukuhara
(817) 509-3395
pfukuhara@ftw.nrcs.usda.gov

Dwain Daniels
(817) 509-3358
wdaniels@ftw.nrcs.usda.gov

Patsy Hudson
(817)-509-3361
phudson@ftw.nrcs.usda.gov

Steve Nechero
(817) 509-3366
snechero@ftw.nrcs.usda.gov

Image formats. To find out which of these formats are supported for a particular ESRI Software product, please see the Desktop Help or their respective User Guides.

AVS – AVS X image file
BMP – Microsoft Windows bitmap image file
CMYK – Raw cyan, magenta, yellow, and black bytes
DCX – Zsoft IBM PC multi-page Paintbrush file
DIB – Microsoft Windows bitmap image file
EPS – Adobe Encapsulated PostScript file
EPS2 – Adobe Level II Encapsulated PostScript file
EPSF – Adobe Encapsulated PostScript file
EPSI - Encapsulated PostScript Interchange format
FAX – Group 3
GITS – Flexible Image Transport System
GIF – CompuServe graphics interchange format; 8-bit color
GIF87 – CompuServe graphics interchange format; 8-bit color (version 87a)
GRAY – Raw gray bytes
HDF – Hierarchical Data Format
HISTOGRAM – Histogram of the image
HTML – Hypertext Markup Language with a client-side image map
JBIG – Joint Bi-level Image experts Group file interchange format
JPEG – Joint Photographic Experts Group JFIF format; compressed 24-bit color
MAP – colormap intensities and indeces
MATTE – Raw matte bytes
MIFF – Magick image file format
MPEG – Motion Picture Experts Group file interchange format
MTV – MTV Raytracing image format
NULL – NULL image
PBM – Portable bitmap format (black and white)
PCD – Photo CD
PCX – Xsoft IBM PC Paintbrush file
PDF – Portable Document Format
PGM – Portable graymap format (gray scale)
PICT – Apple Macintosh QuickDraw/PICT file
PNG – Portable Network Graphics
PNM Portable anymap
PPM – Portable pixmap format (color)
PS – Adobe PostScript file
PS2 – Adobe Level II PostScript file
RAD – Radiance image file
RGB – Raw red, green, and blue bytes
RGBA – Raw red, green, blue, and matte bytes
RLA – Alias/Wavefront image file; read only
SGI – Irix RGB image file
SUN – SUN Rasterfile
TEXT – raw text file; read only
TGA – Truevision Targa image file
TIFF – Tagged Image File Format
TILE – tile image with a texture
UYVY – 16bit/pixel interleaved YUV (e.g. used by AccomWSD)
VICAR – read only
VID – Visual Image Directory
VIFF – Khoros Visualization image file
X – select image from X server screen
XC – constant image of X server color
XBM – X Windows system bitmap, black and white only
CPM – X Windows system pixmap file (color
YUV – CCIR 601 1:1:1 file
YUV3 – CCIR 601 2:1:1 files

Reference:
ArcGIS 8.3 Instructor Notes
ESRI® ArcMap™ 8.3