





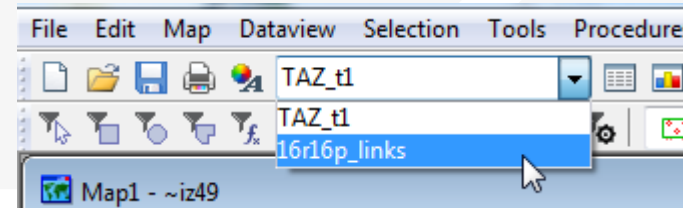


# Color Theme


# Creating Maps

- ➔ Create a new map by opening a Geographic File (\*.dbd)
- ➔ Add more layers if desired
  - »  then 
- ➔ Choose the active layer
  - » Use the dropdown selector
  - » Or use the display manager
- ➔ Change the “default” styles for the layers
  - »  then  , or  , or use the display manager
- ➔ Hide or show layers
  - »  or the display manager



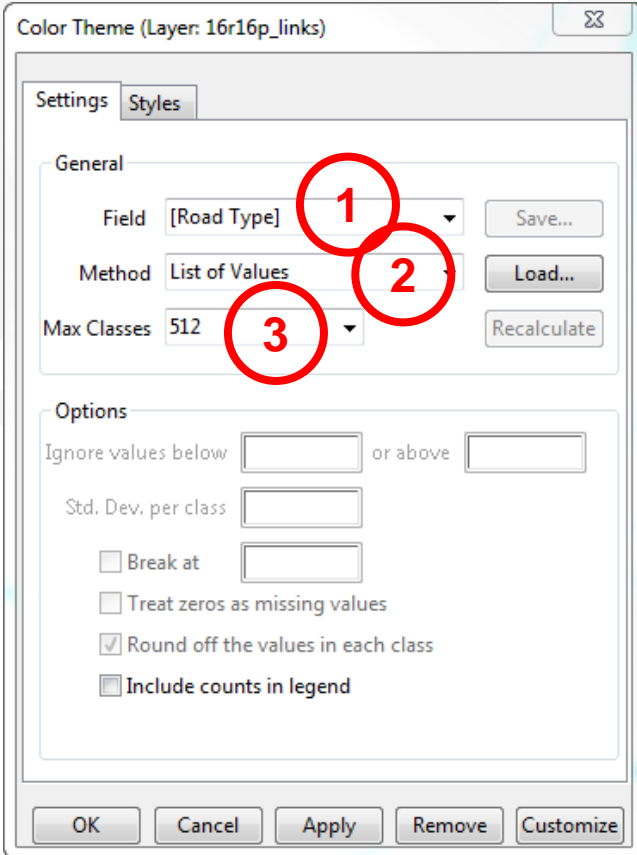
# Color and Pattern Themes

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- Set feature colors and styles based on attributes
  - » Color Themes (  ) are often used to display facility type on a roadway network
  - » Pattern Themes (Map → Pattern Theme...) is sometimes used to display number of lanes on a roadway network

# Color and Pattern Themes

## The Settings Tab

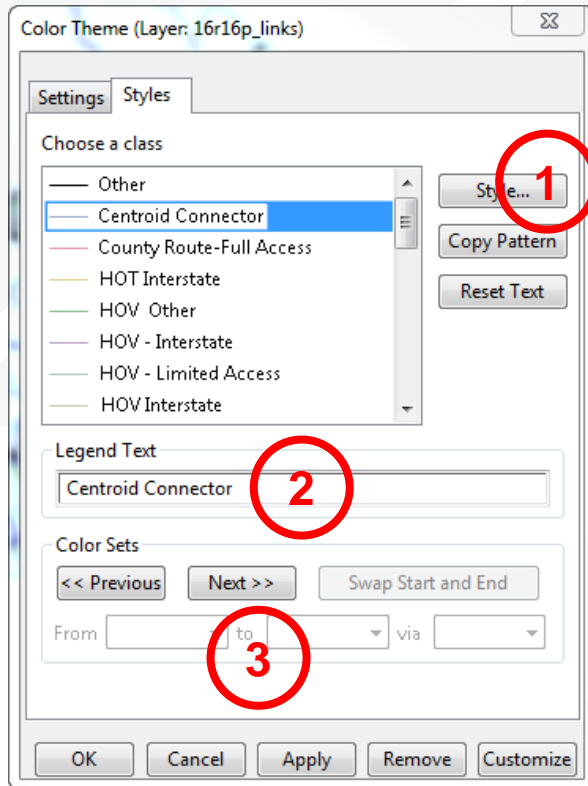


The screenshot shows the 'Color Theme (Layer: 16r16p\_links)' dialog box with the 'Settings' tab selected. The 'General' section contains three dropdown menus: 'Field' (set to '[Road Type]'), 'Method' (set to 'List of Values'), and 'Max Classes' (set to '512'). These three dropdown menus are highlighted with red circles and numbered 1, 2, and 3 respectively. To the right of these dropdowns are buttons for 'Save...', 'Load...', and 'Recalculate'. Below the 'General' section is the 'Options' section, which includes input fields for 'Ignore values below' and 'or above', a 'Std. Dev. per class' field, and several checkboxes: 'Break at', 'Treat zeros as missing values', 'Round off the values in each class' (checked), and 'Include counts in legend'. At the bottom of the dialog are buttons for 'OK', 'Cancel', 'Apply', 'Remove', and 'Customize'.

1. Choose a field to represent
  2. Choose a method to create categories and number of classes
- \* Use the Load and Save buttons to store and recall settings
- » *This is a huge time-saver!*

# Color and Pattern Themes

## The Styles Tab



1. Choose a style for each class
2. Select a legend text for each class
3. Choose from pre-defined color settings if desired

# Functional Class

Primary Facility Type		Secondary Facility Type	
1	Freeways	10	Freeway
		2	HOV
3	Expressway / Parkway	20	HOV 2
		21	HOV 3+
		22	HOV - HOV Connector
		30	Undivided
4	Principal Arterial	31	Divided, Interrupted
		32	Divided, Uninterrupted
		20	Undivided
5	Minor Arterial	41	Divided
		42	Continuous Left Turn
		50	Undivided
		51	Divided
6	Major Collector	52	Continuous Left Turn
		60	Undivided
		61	Divided
		62	Continuous Left Turn

Primary Facility Type		Secondary Facility Type	
7	Minor Collector	70	Undivided
		71	Divided
		72	Continuous Left Turn
		73	Posted Speed 25
		74	Posted Speed 15
		80	Freeway to Freeway Connector
8	Ramps	81	Freeway to arterial
		82	Arterial to freeway
		83	Ramp Distributor
		84	Ramp from Arterial to HOV
		85	Ramp from HOV to Arterial
		86	Collector distributor
		87	Shared HOV Ramps to MF
		88	Truck only
9	Trucks	90	Truck only
100		100	Centroid Connector - Tier 1
200		200	Centroid Connector - Tier 2

Source: SCAG Model  
Documentation, Appendix A

# Functional Class

## ➤ Two Digit FT Codes

- » Contained in AB\_Facility\_Type and BA\_Facility\_Type
- » Difficult to use for map editing setup (too many details)

## ➤ One Digit FT Codes

- » Not stored on the network
- » Can be computed


TransCAD  
Formulas.txt

```
MAP_FT:
-----
if (AB_Facility_Type = 100 or BA_Facility_Type = 100) then 100 else
if (AB_Facility_Type = 200 or BA_Facility_Type = 200) then 200 else
if (AB_Facility_Type = 999 or BA_Facility_Type = 999) then 999 else
if (AB_Facility_Type > 0) then s2i(left(string(AB_Facility_Type), 1))
else s2i(left(string(BA_Facility_Type), 1))
```

**Note:** We will discuss formulas  
in more detail in a later section



# Practice 1: Create a color theme for line layer using IFC field

1. Open the SCAG Network File (16R16pl\_links.dbd)
  - ✓ File→Open, then in the file type dropdown next to 'File name:' select Geographic File(\*.cdf,\*.dbd) option
  - ✓ Browse to the location/folder where the geographic file is located and select the '16R16pl\_links.dbd' and click 'Open' button
2. Add the MAP\_FT Formula Field
  - ✓ Dativew→Formula Fields
  - ✓ Open TransCAD Formuals.txt in notepad, then copy the MAP\_FT formula
  - ✓ Paste the formula and name the formula MAP\_FT
  - ✓ Click OK
3. On the top ribbon, click  it is called 'color theme map wizard'
4. It opens up a dialog box with two tabs. In the first tab 'Settings' tab:
  - ✓ Select the MAP\_FT from the 'Field' drop down options
  - ✓ Select the 'List of Values' from the 'Method' drop down options
  - ✓ Max. Classes: Use the default value (512)
5. Go to the 'Styles' tab
  - ✓ Observe the default styles
  - ✓ Optional: Set a preferred style for each facility type (we will use a shortcut)
6. Go back to the Settings tab, click the Load button.
  - ✓ Choose From Settings File
  - ✓ Browse to and select SCAG Training\Settings.stg
  - ✓ Choose MAP\_FT and click OK
  - ✓ Click OK again to complete the color theme dialog box
7. Save the settings (optional, method 1) **Skip this step in training.**
  - ✓ Tools → Geographic Utilities → Geographic file
  - ✓ Click Save Settings
1. Save the settings (optional, method 2) **Use this method in training.**
  - ✓ File –Save As
  - ✓ Save a Map file that you can open later with the settings applied

