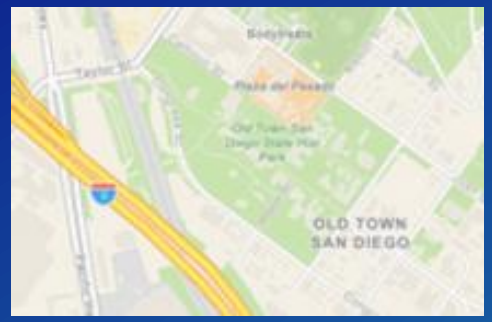
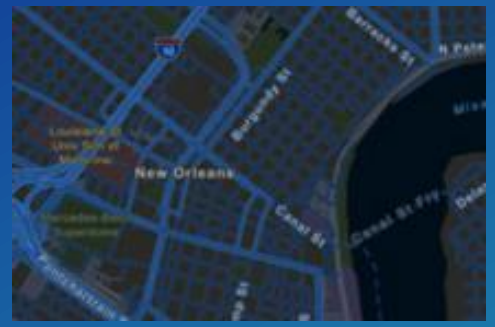
Tips and Tricks for Vector Basemap Customization

JESSICA ACOSTA RODRIGUEZ

Available Vector Tile Basemaps





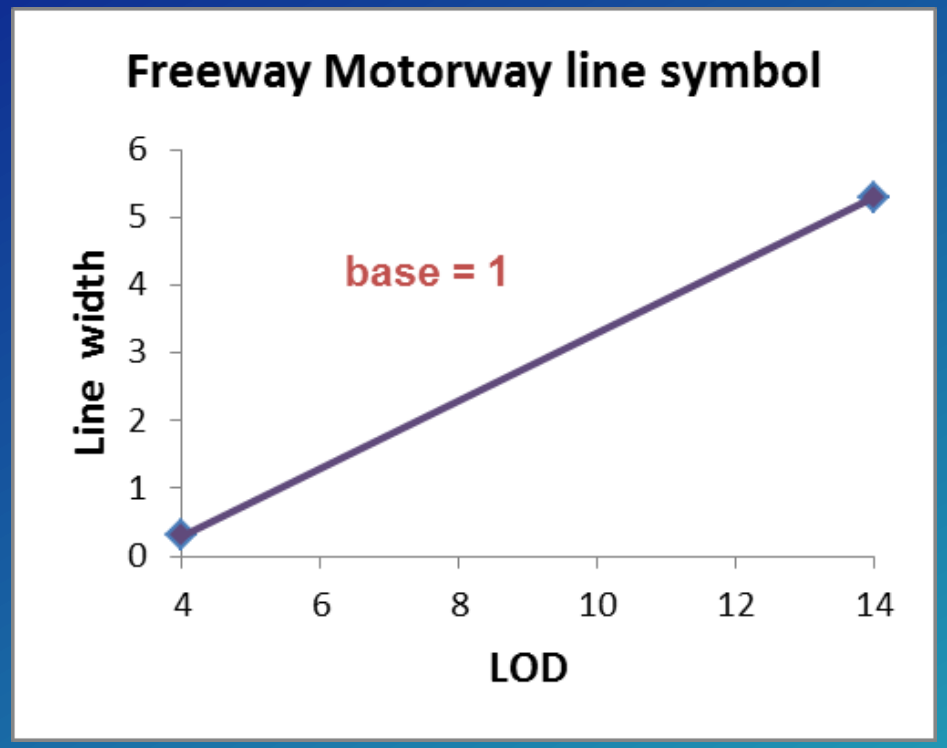
Json code properties to be discussed

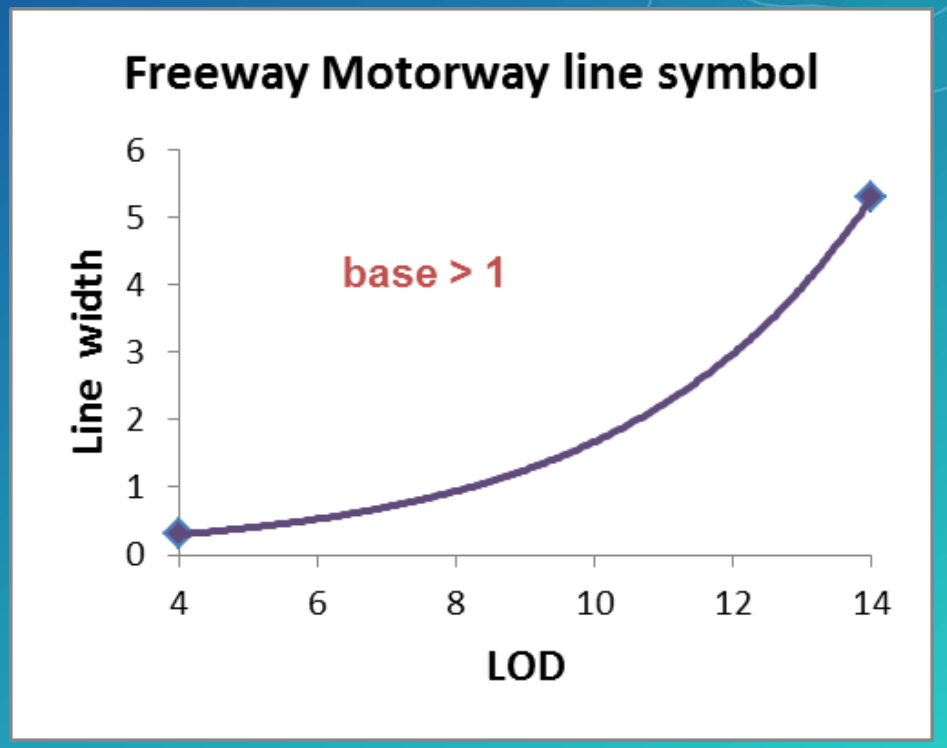
- Order of layers in the json code
- “fill-color”, “fill-outline-color”, “fill-opacity”
- “line-color”, “line-opacity”, “line-width”
- “minzoom”, “maxzoom”
- “visibility”
- “stops”, “base”
- Disputed boundaries: “filter”, “line-dasharray”
- “text-font”, “text-field”, “text-size”, “text-padding”, “text-letter-spacing”

Vector Tile Levels of Detail (LODs)

LOD: 0	scale 1: 296 million	(MinZoom)
LOD: 1	scale 1: 148 million	
.		
.		
.		
.		
LOD: 17	scale 1: 2 thousand	
LOD: 18	scale 1: 1 thousand	(MaxZoom)

How the “base” property works





Disputed Boundaries depiction

- **To exclude Disputed boundaries:**
  - **Go to “Boundary line/Disputed admin0” layer**
  - **“filter” : [“all”, [“==“, “_symbol”, 6], [“!in”, "DisputeID", 8, 16, 96, 0, *add values here*]]**

- **To include them as regular Admin boundaries:**
  - **Go to “Boundary line/Admin0/0” and “Boundary line/Admin0/1” layers**
  - **“filter” : ["any", ["==", "_symbol", 0], ["in", "DisputeID", *add values here*]]**

Some useful websites

- **Esri Vector Basemaps Reference document**
  - esriurl.com/VectorRefDoc
- **Mapbox GL Style Reference**
  - https://www.mapbox.com/mapbox-gl-style-spec/

- **Brackets**
  - http://brackets.io/
- **Notepad ++**
  - https://notepad-plus-plus.org/
- **JSON Validator**
  - http://jsonlint.com/

Esri Vector Basemaps available fonts

- Arial
- Arial Unicode
- AvenirNext
- Belleza Regular
- Cabin Sketch
- Josefin Slab
- Just Another Hand
- Noto Sans
- Noto Serif
- Palatino Linotype
- Playfair Display
- Redressed
- Special Elite
- Syncopate
- Ubuntu

Two esri style editors

- **Vector Tile Style Editor**
  - **http://esri.github.io/arcgis-vectortile-style-editor/**
  - **created by Rene Rubalcava**

- **Vector Basemap Style Editor**
  - **https://maps.esri.com/jg/VectorBasemapStyleEditor/index.html**
  - **created by John Grayson**

Other presentations on Vector Basemaps

- **Leveraging Vector Tile Layers in Web Apps**
  - **Today! 5:30pm – 6:15pm Demo Theater 10 - Online**
- **Styling Vector Basemaps**
  - **Tomorrow 10:15am -11:30am Room 08**
- **Styling Vector Tiles *(same presentation as this one!)***
  - **Tomorrow 10:30am – 11:15am Demo Theater 10 - Online**
- **Caching Maps and Vector Tile Layers: Best Practices**
  - **Tomorrow 1:30pm – 2:45pm Hilton Sapphire Ballroom M**
- **Desktop Mapping: Creating Vector Tiles**
  - **Tomorrow 3:15pm – 4:30pm Ballroom 06F**

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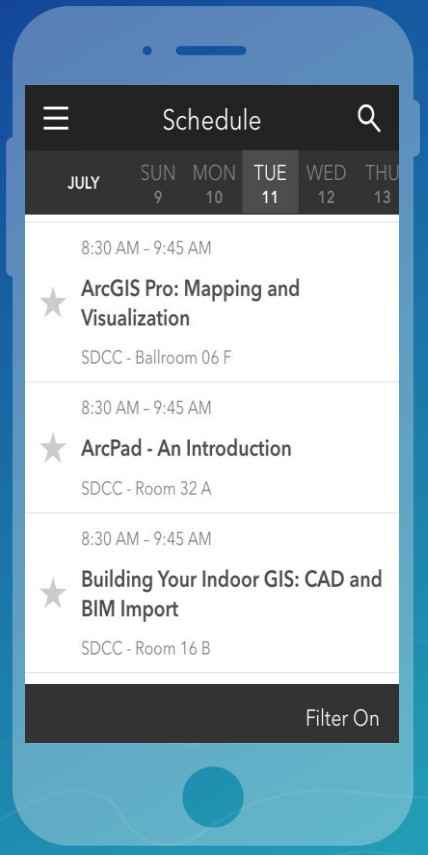
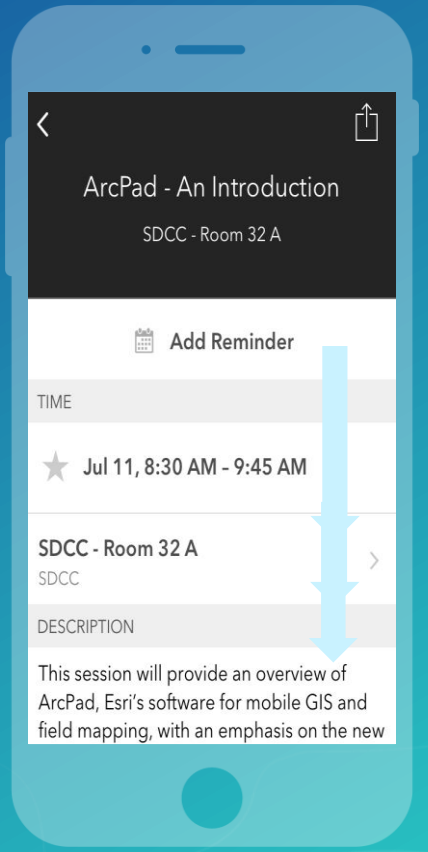
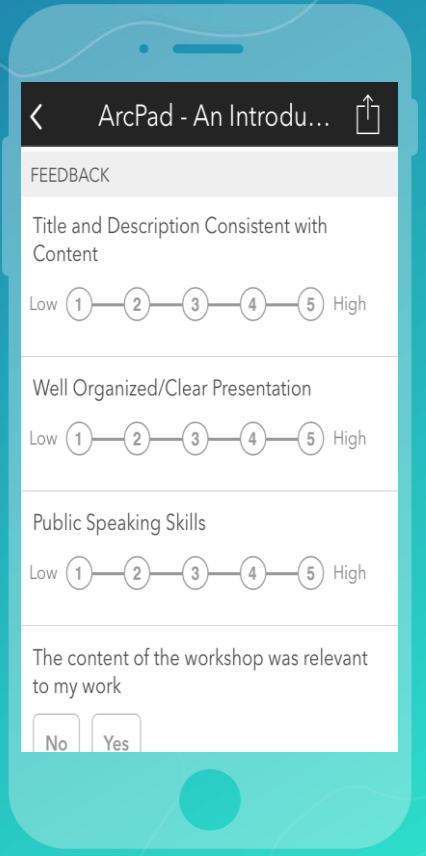


Scroll down to find the survey



Complete Answers and Select "Submit"



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