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

Freeway Motorway line symbol

<table>
<thead>
<tr>
<th>LOD</th>
<th>Line width</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>14</td>
<td>14</td>
</tr>
</tbody>
</table>

- **base = 1**

Freeway Motorway line symbol

<table>
<thead>
<tr>
<th>LOD</th>
<th>Line width</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0.5</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>5</td>
</tr>
</tbody>
</table>

- **base > 1**
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
  - created by Rene Rubalcava

• Vector Basemap Style Editor
  - https://maps.esri.com/jg/VectorBasemapStyleEditor/index.html
  - created by John Grayson
Other presentations on Vector Tiles (today!)

- **Caching Maps and Vector Tile Layers: Best Practices**
  - 1:30pm – 2:45pm    Hilton Sapphire Ballroom M

- **Living Atlas: The Road Ahead**
  - 1:30pm – 2:45pm    Room 14A

- **Desktop Mapping: Creating Vector Tiles**
  - 3:15pm – 4:30pm    Ballroom 06F
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