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Style Recipes

Creating Strokes

Create a Stroke Symbolizer with a Color

Stroke stroke = new Stroke("#1E90FF")



Create a Stroke Symbolizer with a Color and Width

Stroke stroke = new Stroke("#1E90FF", 0.5)





Create a Stroke Symbolizer with Dashes

```
Stroke stroke = new Stroke("#1E90FF", 0.75, [5,5], "round", "bevel")
```



Create a Stroke Symbolizer with railroad Hatching

```
Symbolizer stroke = new Stroke("#1E90FF", 1) + new Hatch("vertline", new Stroke
("#1E90FF", 0.5), 6).zindex(1)
```



Create a Stroke Symbolizer with spaced Shape symbols

```
Symbolizer stroke = new Stroke(width: 0, dash: [4, 4]).shape(new Shape("#1E90FF", 6,
"circle").stroke("navy", 0.75))
```



Create a Stroke Symbolizer with alternating spaced Shape symbols

```
Symbolizer stroke = new Stroke("#0000FF", 1, [10,10]).zindex(0) + new Stroke(null, 0,
[[5,15],7.5])
    .shape(new Shape(null, 5, "circle").stroke("#000033",1)).zindex(1)
```



Creating Fills

Create a Fill Symbolizer with a Color

```
Fill fill = new Fill("#6B8E23")
```



Create a Fill Symbolizer with a Color and a Stroke

```
Symbolizer symbolizer = new Fill("#6B8E23") + new Stroke("black", 0.1)
```



Create a Fill Symbolizer with a Color and Opacity

```
Fill fill = new Fill("#6B8E23", 0.35)
```



Create a Fill Symbolizer from named parameters

```
Fill fill = new Fill(color: "wheat", opacity: 0.75)
```



Create a Fill Symbolizer with an Icon

Fill fill = new Fill("green").icon('src/main/resources/trees.png', 'image/png')



Create a Fill Symbolizer with a Hatch

```
Fill fill = new Fill("green").hatch("slash", new Stroke("green", 0.25), 8)
```



Create a Fill Symbolizer with a random fill

```
Symbolizer symbolizer = new Fill("white").hatch("circle", new Fill("black"), 2).
random(
    random: "free",
    seed: 0,
    symbolCount: 50,
    tileSize: 50,
    rotation: "none"
) + new Stroke("black", 0.25)
```



Creating Shapes

Create a Shape Symbolizer with a Color

```
Shape shape = new Shape("navy")
```



Create a Shape Symbolizer with a color, size, type, opacity and angle

```
Shape shape = new Shape("#9370DB", 8, "triangle", 0.75, 45)
```



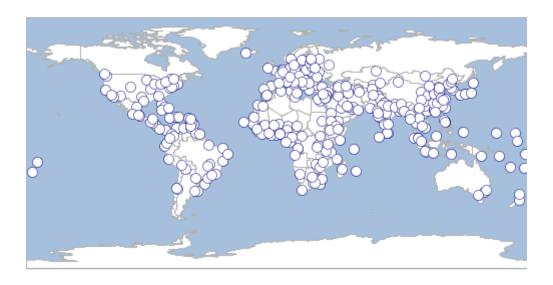
Create a Shape Symbolizer with named parameters

```
Shape shape = new Shape(color: "#8B4513", size: 10, type: "star", opacity: 1.0, rotation: 0)
```



Create a Shape Symbolizer with Stroke outline

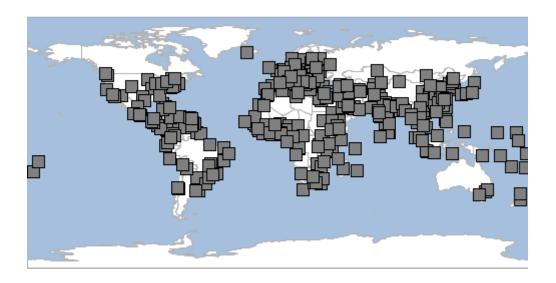
```
Symbolizer symbolizer = new Shape("white", 10).stroke("navy", 0.5)
```



Creating Icons

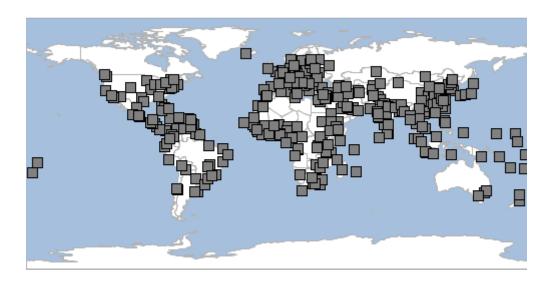
Create an Icon Symbolizer

Symbolizer symbolizer = new Icon("src/main/resources/place.png", "image/png", 12)



Create an Icon Symbolizer

```
Symbolizer symbolizer = new Icon(url: "src/main/resources/place.png", format:
"image/png", size: 10)
```



Creating Gradients

Create a Gradient Symbolizer from a Layer's Field using quantile method

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
Gradient gradient = new Gradient(countries, "PEOPLE", "quantile", 8, "Greens")
countries.style = gradient
```

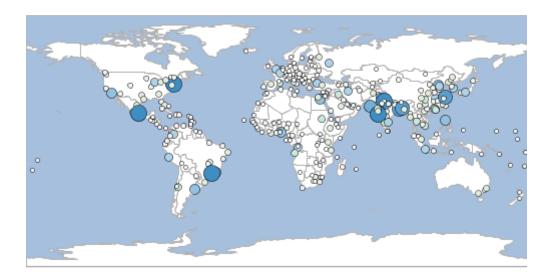


Create a Gradient Symbolizer from a Layer's Field using equal interval method

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
Gradient gradient = new Gradient(countries, "PEOPLE", "equalinterval", 3, "Reds")
countries.style = gradient
```



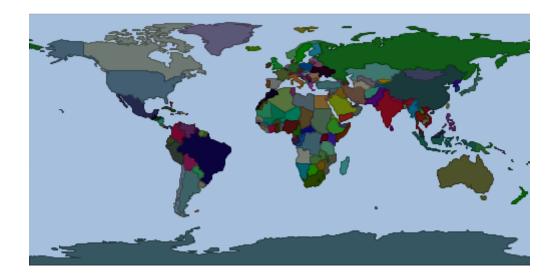
Create a custom Gradient Symbolizer between Symbolizers and values



Creating Unique Values

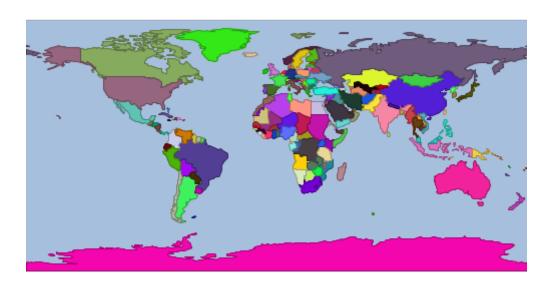
Create a Unique Values Symbolizer from a Layer's Field

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
UniqueValues uniqueValues = new UniqueValues(countries, "NAME")
countries.style = uniqueValues
```



Create a Unique Values Symbolizer from a Layer's Field and a Closure

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
UniqueValues uniqueValues = new UniqueValues(countries, "NAME", {int index, String value -> Color.getRandom()})
countries.style = uniqueValues
```



Create a Unique Values Symbolizer from a Layer's Field and a color palette

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
UniqueValues uniqueValues = new UniqueValues(countries, "NAME",
"LightPurpleToDarkPurpleHeatMap")
countries.style = uniqueValues
```

