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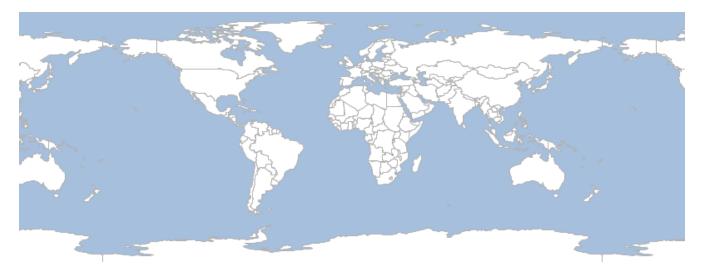
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## **Render Recipes**

### **Creating Maps**

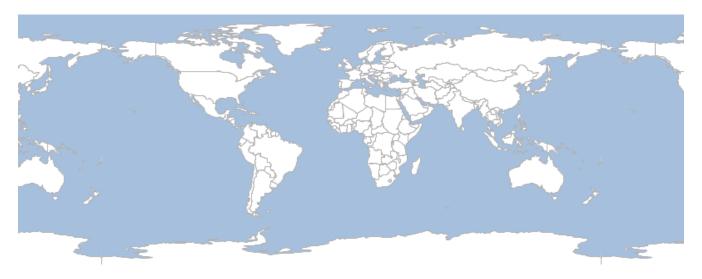
Create a Map with Layers

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
countries.style = new Fill("#ffffff") + new Stroke("#b2b2b2", 0.5)
Layer ocean = workspace.get("ocean")
ocean.style = new Fill("#a5bfdd")
Map map = new Map(
    width: 800,
    height: 300,
    layers: [ocean, countries]
)
File file = new File("map.png")
map.render(file)
```

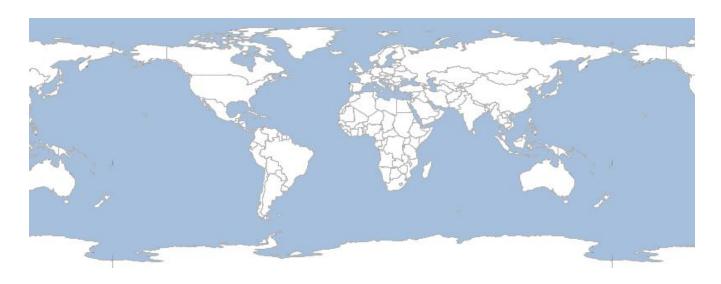


## **Rendering Maps**

**Image** 



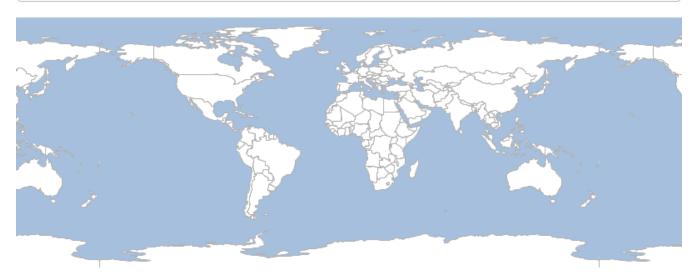
Render a Map to an OutputStream using the Image Renderer



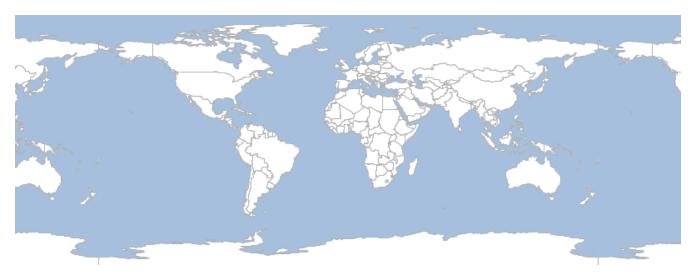
#### **PNG**

Render a Map to an Image using the PNG Renderer

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
countries.style = new Fill("#ffffff") + new Stroke("#b2b2b2", 0.5)
Layer ocean = workspace.get("ocean")
ocean.style = new Fill("#a5bfdd")
Map map = new Map(
    width: 800,
    height: 300,
    layers: [ocean, countries]
)
PNG png = new PNG()
BufferedImage image = png.render(map)
```

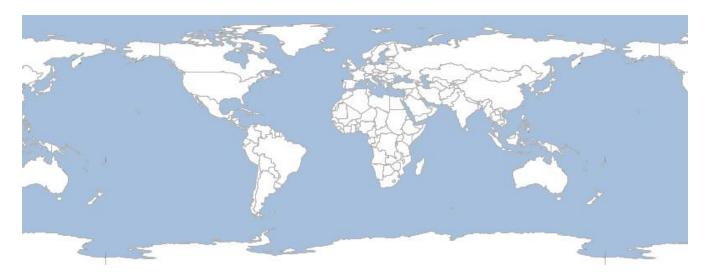


```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
countries.style = new Fill("#ffffff") + new Stroke("#b2b2b2", 0.5)
Layer ocean = workspace.get("ocean")
ocean.style = new Fill("#a5bfdd")
Map map = new Map(
    width: 800,
    height: 300,
    layers: [ocean, countries]
)
PNG png = new PNG()
File file = new File("map.png")
png.render(map, new FileOutputStream(file))
```

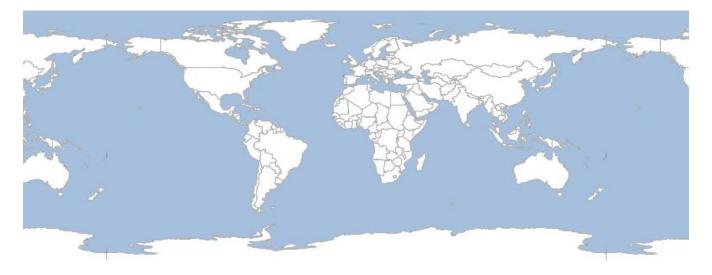


### **JPEG**

Render a Map to an Image using the JPEG Renderer



Render a Map to an OutputStream using the JPEG Renderer



**GIF** 

Render a Map to an Image using the GIF Renderer

[ map gif image ] | map\_gif\_image.gif

Render a Map to an OutputStream using the GIF Renderer

[ map gif file ] | map\_gif\_file.gif

#### **GeoTIFF**

Render a Map to an Image using the GeoTIFF Renderer

Render a Map to an OutputStream using the GeoTIFF Renderer

### **ASCII**

```
....:^(^..??^^!^:..!(^...(((((^................^(^..??^
....(:((.....(:((.(((((((((......(:
```

```
....:^(^..??^^!^:..!(^...(((((^................^(^..??^
....(:((.....(:((...((((((((......(:(...(:((.....
```