Table of Contents

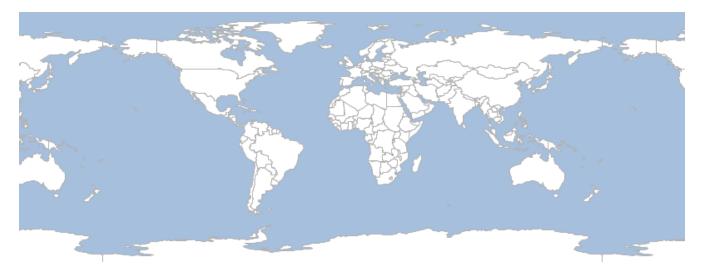
R	Render Recipes	1
	Creating Maps	1
	Rendering Maps	1

Render Recipes

Creating Maps

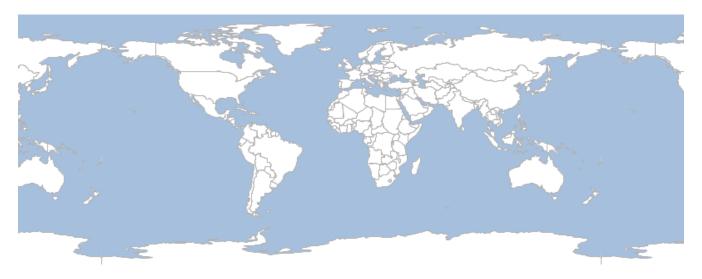
Create a Map with Layers

```
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)
```

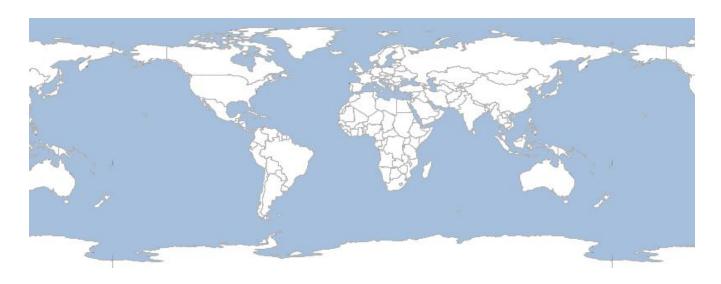


Rendering Maps

Image



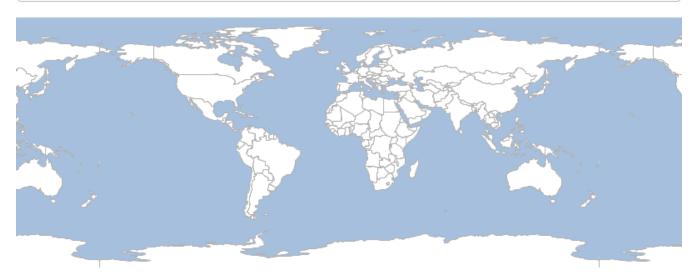
Render a Map to an OutputStream using the Image Renderer



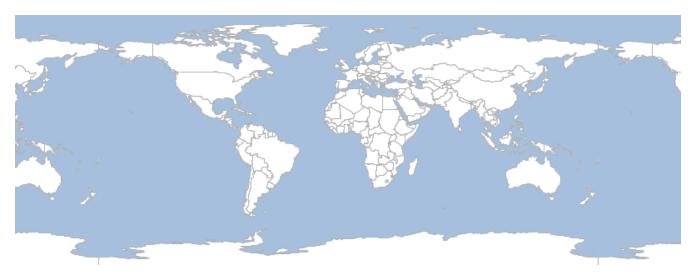
PNG

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)
```

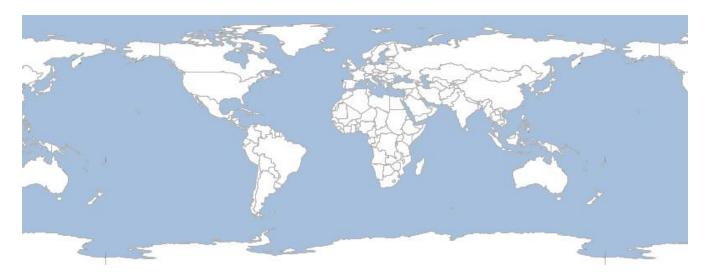


```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
countries.style = new Fill("#ffffff") + new Stroke("#b2b2b2", 0.5)
Layer ocean = workspace.get("ocean")
ocean.style = new Fill("#a5bfdd")
Map map = new Map(
    width: 800,
    height: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

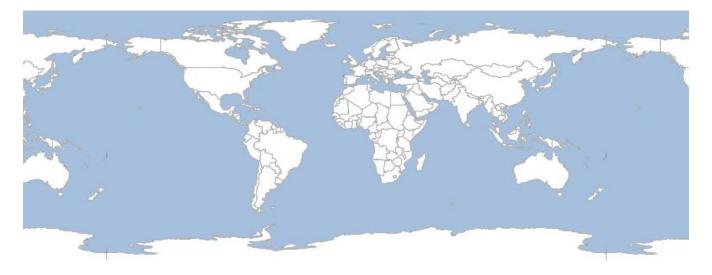


JPEG

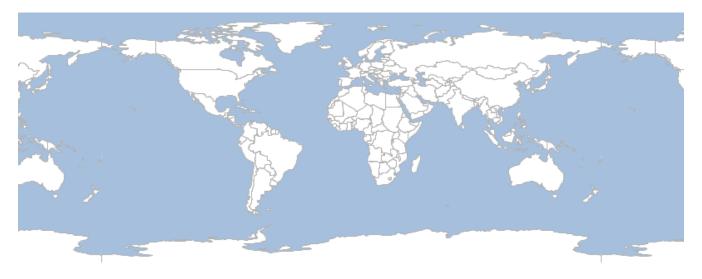
Render a Map to an Image using the JPEG Renderer



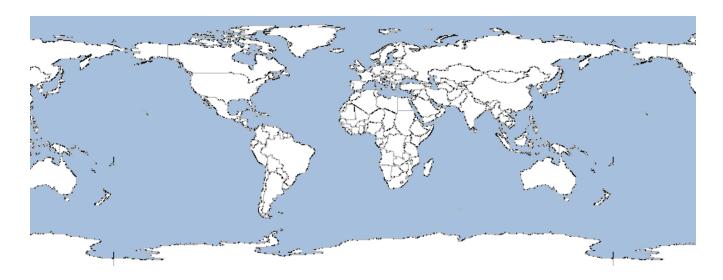
Render a Map to an OutputStream using the JPEG Renderer



GIF

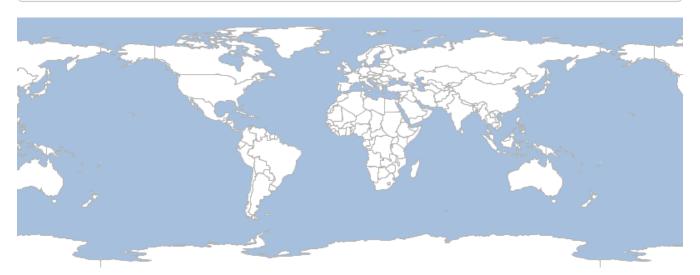


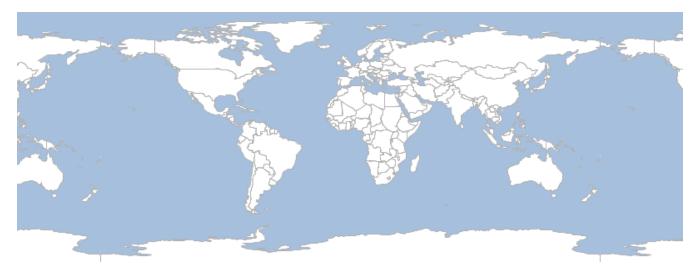
Render a Map to an OutputStream using the GIF Renderer



GeoTIFF

Render a Map to an Image using the GeoTIFF Renderer





ASCII

Render a Map to an string using the ASCII Renderer

```
....(:((.....(:((.((((((((......(:
```

Render a Map to an text file using the ASCII Renderer

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

Base64

Render a Map to an string using the Base64 Renderer

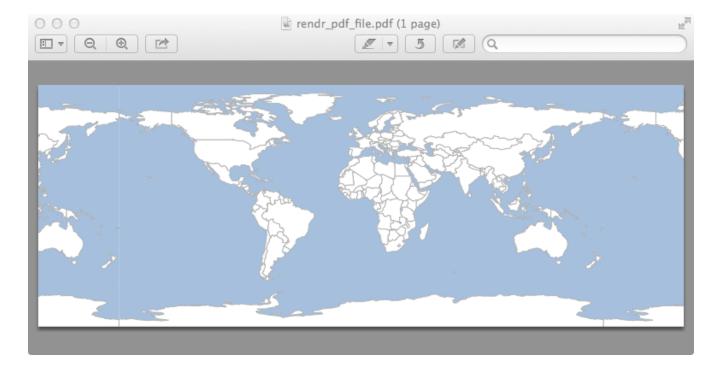
```
image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAyAAAAEsC...
```

Render a Map to an text file using the Base64 Renderer

```
iVBORw0KGgoAAAANSUhEUgAAAyAAAAEsCAYAAAA7Ldc6AACAAE...
```

PDF

Render a Map to a PDF Document using the PDF Renderer



Render a Map to a PDF file using the PDF Renderer

