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Carto Recipes

The Carto classes are in the [geoscript.carto](#) package.

The Carto package contains classes for creating cartographic documents. All items are added to the document with x and y coordinates whose origin is the upper left and width and a height.

Adding a Map

Add a map

```
Workspace workspace = new GeoPackage('src/main/resources/data.gpkg')
Layer countries = workspace.get("countries")
countries.style = new SLDReader().read(new File('src/main/resources/countries.sld'))
Layer ocean = workspace.get("ocean")
ocean.style = new SLDReader().read(new File('src/main/resources/ocean.sld'))
Map map = new Map(
    layers: [ocean, countries],
    bounds: new Bounds(-180, -85, 180, 85, "EPSG:4326").reproject("EPSG:3857"),
    projection: new Projection("EPSG:3857")
)

File file = new File("map.png")
file.withOutputStream { OutputStream outputStream ->

    PageSize pageSize = PageSize.LETTER_LANDSCAPE

    CartoFactories.findByName("png")
        .create(pageSize)
        .rectangle(new RectangleItem(0, 0, pageSize.width - 1, pageSize.height -
1).fillColor(Color.WHITE))
        .map(new MapItem(20, 20, pageSize.width - 40, pageSize.height - 40).map
(map))
        .build(outputStream)
}
```

