

Table of Contents

Layer Recipes	1
Getting a Layer's Properties	1
Getting a Layer's Features	2

Layer Recipes

The Layer classes are in the [geoscript.layer](#) package.

A Layer is a collection of Features.

Getting a Layer's Properties

Get a Layer from a Workspace and it's name

```
Workspace workspace = new GeoPackage("src/main/resources/data.gpkg")
Layer layer = workspace.get("countries")
String name = layer.name
println "Name: ${name}"
```

Name: countries

The Layer's Format

```
String format = layer.format
println "Format: ${format}"
```

Format: GeoPackage

Count the number of Features

```
int count = layer.count
println "# of Features: ${count}"
```

of Features: 177

Get the Layer's Projection

```
Projection proj = layer.proj
println "Projection: ${proj}"
```

Projection: EPSG:4326

Get the Bounds of the Layer

```
Bounds bounds = layer.bounds
println "Bounds: ${bounds}"
```

```
Bounds: (-179.99999999999997, -
90.000000000000003, 180.00000000000014, 83.64513000000002, EPSG:4326)
```

Getting a Layer's Features

Iterate over a Layer's Features

```
Workspace workspace = new GeoPackage("src/main/resources/data.gpkg")
Layer layer = workspace.get("states")
layer.eachFeature { Feature feature ->
    println feature["NAME_1"]
}
```

```
Minnesota
Montana
North Dakota
Hawaii
Idaho
Washington
Arizona
California
Colorado
Nevada
...
```

Iterate over a subset of a Layer's Features

```
Workspace workspace = new GeoPackage("src/main/resources/data.gpkg")
Layer layer = workspace.get("states")
layer.eachFeature("NAME_1 LIKE 'M%'") { Feature feature ->
    println feature["NAME_1"]
}
```

Minnesota
Montana
Missouri
Massachusetts
Mississippi
Maryland
Maine
Michigan

Iterate over a Layer's Features with parameters.

```
Workspace workspace = new GeoPackage("src/main/resources/data.gpkg")
Layer layer = workspace.get("states")
layer.eachFeature(sort: ["NAME_1"], start: 0, max: 5, fields: ["NAME_1"], filter:
"NAME_1 LIKE 'M%'" ) { Feature feature ->
    println feature["NAME_1"]
}
```

Maine
Maryland
Massachusetts
Michigan
Minnesota

Parameters

- filter: The Filter or Filter String to limit the Features. Defaults to null.
- sort: A List of Lists that define the sort order [[Field or Field name, "ASC" or "DESC"],...]. Not all Layers support sorting!
- max: The maximum number of Features to include
- start: The index of the record to start the cursor at. Together with maxFeatures this simulates paging. Not all Layers support the start index and paging!
- fields: A List of Fields or Field names to include. Used to select only a subset of Fields.