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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
```

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

```
Bounds: (-179.999999999997,-
90.000000000003,180.000000000014,83.64513000000002,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