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Format Recipes

The Format classes are in the **geoscript.layer** package.

A Format is a collection of Rasters.

Get a Format

Get a Format from a File

```
File file = new File("src/main/resources/earth.tif")
Format format = Format.getFormat(file)
println format.name
```

```
GeoTIFF
```

Get Names

Get names of the Rasters in a Format. Some Formats can contain more than one Raster.

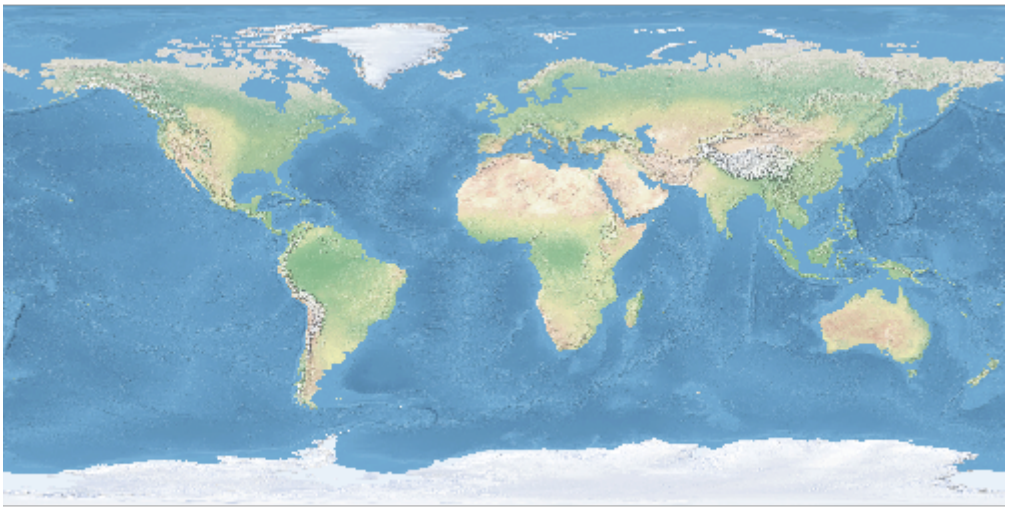
```
File file = new File("src/main/resources/earth.tif")
Format format = Format.getFormat(file)
List<String> names = format.names
names.each { String name ->
    println name
}
```

```
earth
```

Read a Raster

Read a Raster from a File

```
File file = new File("src/main/resources/earth.tif")
Format format = Format.getFormat(file)
Raster raster = format.read("earth")
```

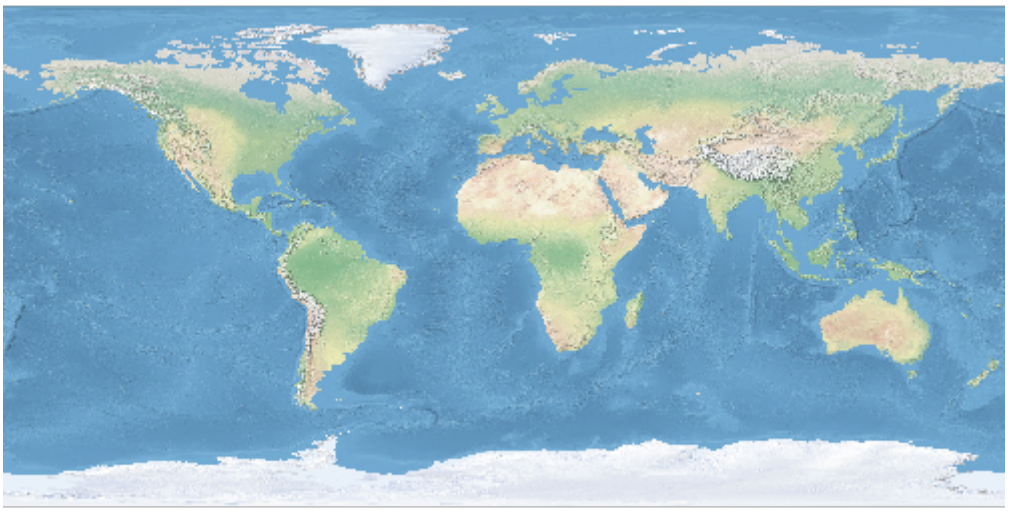


Write a Raster

Write a Raster to a File

```
File file = new File("src/main/resources/earth.tif")
Format format = Format.getFormat(file)
Raster raster = format.read("earth")

File outFile = new File("target/earth.png")
Format outFormat = Format.getFormat(outFile)
outFormat.write(raster)
Raster outRaster = outFormat.read("earth")
```



Check for a Raster

Check to see if the Format has a Raster

```
File file = new File("src/main/resources/earth.tif")
Format format = Format.getFormat(file)

boolean hasEarth = format.has("earth")
println "Has raster named earth? ${hasEarth}"

boolean hasWorld = format.has("world")
println "Has raster named world? ${hasWorld}"
```

```
Has raster named earth? true
Has raster named world? false
```