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Tile Recipes

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

Pyramid

Pyramid Properties

Get the Pyramid's Bounds.

```
Pyramid pyramid = Pyramid.createGlobalMercatorPyramid()

Bounds bounds = pyramid.bounds
println bounds
```

```
(-2.0036395147881314E7,-
2.0037471205137067E7,2.0036395147881314E7,2.0037471205137067E7,EPSG:3857)
```

Get the Pyramid's projection.

```
Projection proj = pyramid.proj
println proj
```

```
EPSG:3857
```

Get the Pyramid's Origin.

```
Pyramid.Origin origin = pyramid.origin
println origin
```

```
BOTTOM_LEFT
```

Get the Pyramid's Tile Width and Height.

```
int tileWidth = pyramid.tileWidth
int tileHeight = pyramid.tileHeight
println "${tileWidth} x ${tileHeight}"
```

```
256 x 256
```

Tile Layer

Tile Layer Properties

Create a TileLayer from an MBTiles File.

```
File file = new File("src/main/resources/tiles.mbtiles")
MBTiles mbtiles = new MBTiles(file)
```

Get the TileLayer's name.

```
String name = mbtiles.name
println name
```

```
countries
```

Get the TileLayer's Bounds.

```
Bounds bounds = mbtiles.bounds
println bounds
```

```
(-2.0036395147881314E7,-
2.0037471205137067E7,2.0036395147881314E7,2.003747120513706E7,EPSG:3857)
```

Get the TileLayer's Projection.

```
Projection proj = mbtiles.proj
println proj
```

```
EPSG:3857
```

Get the TileLayer's Pyramid.

```
Pyramid pyramid = mbtiles.pyramid
println pyramid
```

```
geoscript.layer.Pyramid(proj:EPSG:3857, bounds:(-2.0036395147881314E7,-
2.0037471205137067E7,2.0036395147881314E7,2.003747120513706E7,EPSG:3857),
origin:BOTTOM_LEFT, tileWidth:256, tileHeight:256)
```

Get a Tile from a TileLayer.

```
Tile tile = mbtiles.get(0, 0, 0)
println tile
```

```
Tile(x:0, y:0, z:0)
```