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Introduction

The GeoScript Groovy Cookbook contains short recipes on how to use the GeoScript Groovy library.

GeoScript is a geospatial library written in Groovy. It provides modules for working with geometries, projections, features, layers, rasters, styles, rendering, and tiles. It is built on top of the Java Topology Suite (JTS) and GeoTools libraries. GeoScript Groovy is open source and licensed under the MIT license.

Using GeoScript

To use GeoScript Groovy you need Java and Groovy installed and on your PATH. Next, download the latest stable release, the latest in development build, or build the code yourself. Then put the GeoScript Groovy bin directory on your PATH. You are now ready to use GeoScript Groovy!

GeoScript Groovy has three commands:

1. geoscript-groovy (which can run Groovy files)

```
1. bash
Jared-Ericksons-MacBook-Pro:~ jericks$ cat script.groovy
import geoscript.geom.Point
p = new Point(-123.181458, 47.036439)
println p.wkt
poly = p.buffer(2.5)
println poly.wkt
Jared-Ericksons-MacBook-Pro:~ jericks$ geoscript-groovy script.groovy
POINT (-123.181458 47.036439)
POLYGON ((-120.681458 47.036439, -120.72949479899194 46.54871319495968, -120.871
7591687218 46.07973041908728, -121.10278396924365 45.647513417450995, -121.41369
104703364 45.26867204703363, -121.792532417451 44.95776496924364, -122.224749419
08729 44.72674016872178, -122.69373219495968 44.584475798991924, -123.181458 44.
536439, -123.66918380504033 44.584475798991924, -124.13816658091272 44.726740168
72178, -124.57038358254901 44.95776496924364, -124.94922495296638 45.26867204703
363, -125.26013203075637 45.647513417450995, -125.49115683127822 46.079730419087
28, -125.63342120100808 46.54871319495968, -125.681458 47.036439, -125.633421201
00808 47.52416480504032, -125.49115683127822 47.993147580912726, -125.2601320307
5637 48.42536458254901, -124.94922495296638 48.80420595296637, -124.570383582549
01 49.11511303075637, -124.13816658091272 49.34613783127822, -123.66918380504032
49.48840220100808, -123.181458 49.536439, -122.69373219495968 49.48840220100808
 -122.22474941908727 49.34613783127821, -121.792532417451 49.11511303075636, -1
21.41369104703364 48.80420595296636, -121.10278396924363 48.425364582549, -120.8
7175916872178 47.99314758091272, -120.72949479899192 47.524164805040314, -120.68
1458 47.036439))
Jared-Ericksons-MacBook-Pro:~ jericks$
```

1. geoscript-groovysh (which starts a REPL shell)

1. geoscript-groovyConsole (which starts a graphical editor/mini IDE)

groovy:000>

