

geo-shell

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Introduction

geo-shell is an interactive shell for geospatial analysis.

geo-shell has modules for dealing with **vectors**, **rasters**, **tiles**, **maps**, and **styles**.

For **vector** layers, you can use **workspace** commands access layers of spatial data in datasets like shapefiles, geopackages, or postgis databases. With **layer** commands you can perform geoprocessing functions like calculating centroids or buffer features.

For **raster** layers, you can use **format** commands access individual rasters from geotifs or world images. With **raster** commands you can perform mosaic, raster algebra, or crop functions.

The **tile** commands let you create tile layers, get tiles, and get rasters from tiles.

The **style** commands let you create styles for vector layers and raster.

The **map** commands allow you to visualize vector, raster, and tile layers.

Workspace

Workspaces hold vector layers. A Workspace can be a GeoPackage database, a directory of Shapefiles, or a PostGIS database.

Basics

You can open, close, and list Workspaces. The earliest Workspace to open is an in memory Workspace.

Table 1. Open a Workspace

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|--------|---------------------------|-----------|-------------------|---------------------|
| name | The Workspace name | true | | |
| params | The connection parameters | true | | |

```
geo-shell> workspace open --name mem --params memory
Workspace mem opened!
```

You can open a Workspace with --params or connection parameters. You can give it a name with --name flag.

List open Workspaces

```
geo-shell> workspace list
mem = Memory
```

Listing open Workspaces give you the name and the type Workspace.

Table 2. Close a Workspace

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------|--------------------|-----------|-------------------|---------------------|
| name | The Workspace name | true | | |

```
geo-shell> workspace close --name mem
Workspace mem closed!
```

Once you close a Workspace by name it will no longer appear with the list command.

Layers

In this example, we will open a GeoPackage database filled with data from Natural Earth.

Open a Workspace

```
geo-shell> workspace open --name naturalearth --params src/test/resources/naturalearth.gpkg
Workspace naturalearth opened!
```

List open Workspaces

```
geo-shell> workspace layers --name naturalearth
countries
ocean
places
states
```

Close a Workspace

```
geo-shell> workspace close --name naturalearth
Workspace naturalearth closed!
```

Layer

Geoprocessing

Random Points

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------------------|----------------------------|-----------|-------------------|---------------------|
| output-workspace | The output Layer Workspace | true | | |
| output-name | The output Layer name | true | | |
| number | The number of points | true | | |

| | | | | |
|-----------------------|--|-------|----------|----------|
| geometry | The geometry or bounds in which to create the points | true | | |
| projection | The projection | true | | |
| id-field | The id field name | false | id | id |
| geometry-field | The geometry field name | false | the_geom | the_geom |
| grid | Whether to create points in a grid | false | false | false |
| constrained-to-circle | Whether points should be constrained to a circle | false | false | false |
| gutter-fraction | The size of gutter between cells | false | 0 | 0 |

```
geo-shell> workspace open --name layers --params memory
Workspace layers opened!
```

```
geo-shell> layer random --output-workspace layers --output-name points --geometry -180,-90,180,90
--number 100 --projection EPSG:4326
Done!
```

```
geo-shell> style vector default --layer points --color #1E90FF --file examples/points.sld
Default Vector Style for points written to /home/travis/build/jericks/geo-shell/examples/points.sld!
```

```
geo-shell> layer style set --name points --style examples/points.sld
Style /home/travis/build/jericks/geo-shell/examples/points.sld set on points
```

```
geo-shell> workspace open --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!
```

```
geo-shell> layer open --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries
```

```
geo-shell> layer style set --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries
```

```
geo-shell> layer open --workspace naturalearth --layer ocean --name ocean
Opened Workspace naturalearth Layer ocean as ocean
```

```
geo-shell> layer style set --name ocean --style examples/ocean.sld
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean
```

```
geo-shell> map open --name randomMap
Map randomMap opened!
```

```
geo-shell> map add layer --name randomMap --layer ocean
```

Added ocean layer to map randomMap

```
geo-shell> map add layer --name randomMap --layer countries
```

Added countries layer to map randomMap

```
geo-shell> map add layer --name randomMap --layer points
```

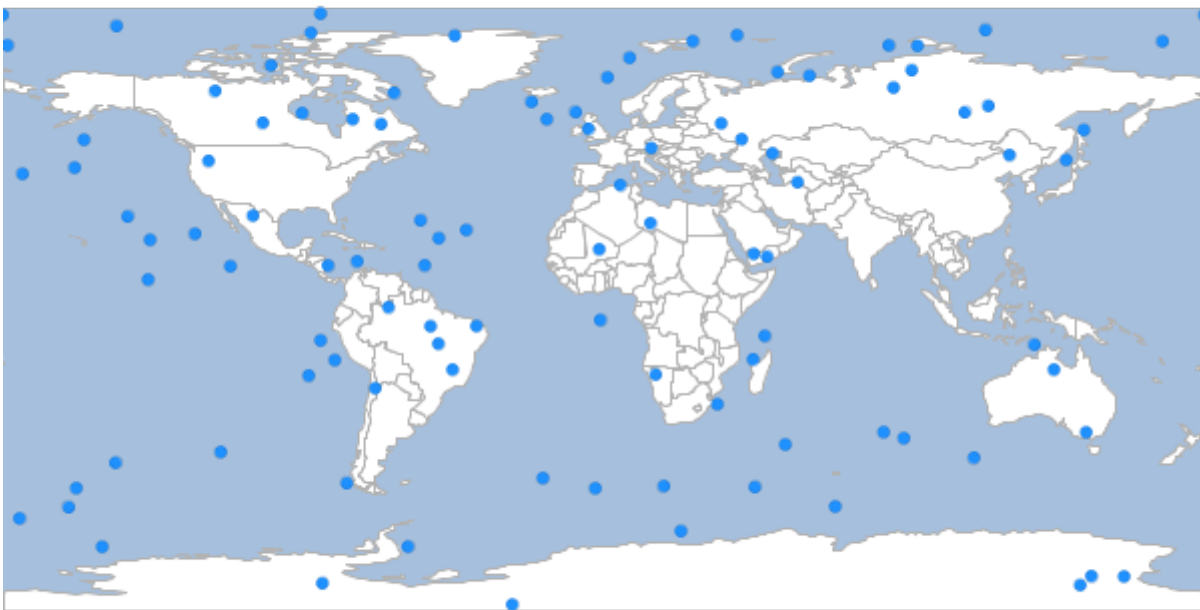
Added points layer to map randomMap

```
geo-shell> map draw --name randomMap --file examples/random_points.png
```

Done drawing /home/travis/build/jericks/geo-shell/examples/random_points.png!

```
geo-shell> map close --name randomMap
```

Map randomMap closed!



Buffer

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------------------|----------------------------|-----------|-------------------|---------------------|
| input-name | The Layer name | true | | |
| output-workspace | The output Layer Workspace | true | | |
| output-name | The output Layer name | true | | |
| distance | The buffer distance | true | | |

```
geo-shell> workspace open --name layers --params memory
```

Workspace layers opened!

geo-shell> **layer random** --output-workspace layers --output-name points --geometry -180,-90,180,90 --number 100 --projection EPSG:4326
Done!

geo-shell> **layer buffer** --input-name points --output-workspace layers --output-name buffers --distance 10
Done!

geo-shell> **style vector default** --layer points --color #1E90FF --file examples/points.sld
Default Vector Style for points written to /home/travis/build/jericks/geo-shell/examples/points.sld!

geo-shell> **style vector default** --layer buffers --color #1E90FF --opacity 0.25 --file examples/buffers.sld
Default Vector Style for buffers written to /home/travis/build/jericks/geo-shell/examples/buffers.sld!

geo-shell> **layer style set** --name points --style examples/points.sld
Style /home/travis/build/jericks/geo-shell/examples/points.sld set on points

geo-shell> **layer style set** --name buffers --style examples/buffers.sld
Style /home/travis/build/jericks/geo-shell/examples/buffers.sld set on buffers

geo-shell> **workspace open** --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!

geo-shell> **layer open** --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries

geo-shell> **layer style set** --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries

geo-shell> **layer open** --workspace naturalearth --layer ocean --name ocean
Opened Workspace naturalearth Layer ocean as ocean

geo-shell> **layer style set** --name ocean --style examples/ocean.sld
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean

geo-shell> **map open** --name map
Map map opened!

geo-shell> **map add layer** --name map --layer ocean
Added ocean layer to map map

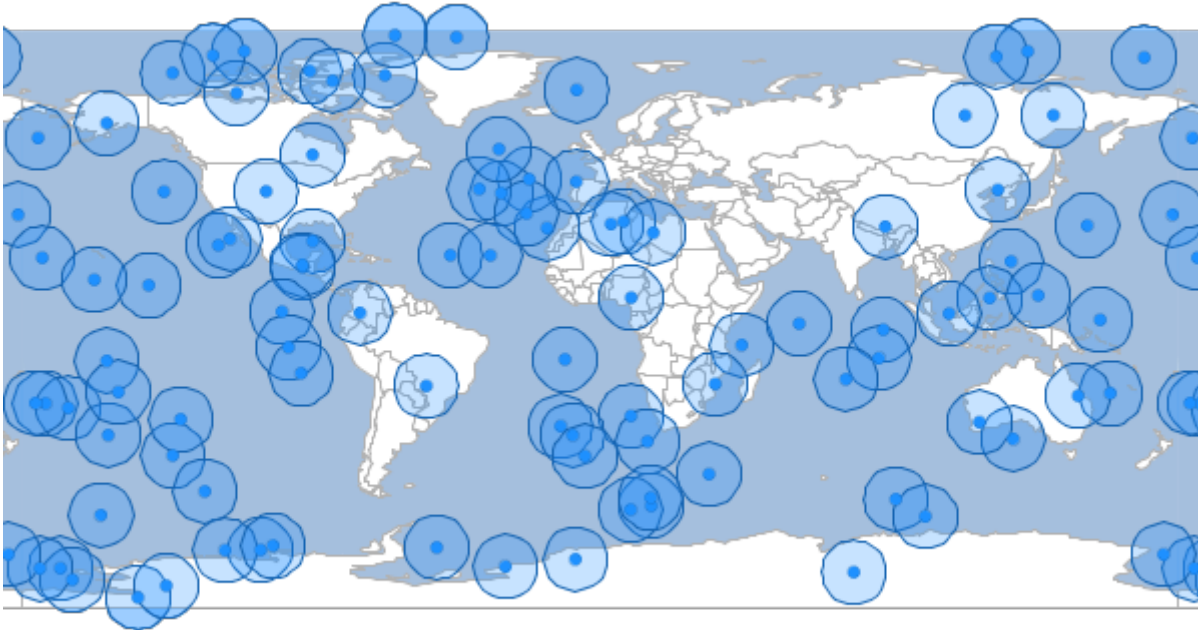
geo-shell> **map add layer** --name map --layer countries
Added countries layer to map map

geo-shell> **map add layer** --name map --layer buffers
Added buffers layer to map map

geo-shell> **map add layer** --name map --layer points
Added points layer to map map

```
geo-shell> map draw --name map --file examples/layer_buffer.png
Done drawing /home/travis/build/jericks/geo-shell/examples/layer_buffer.png!

geo-shell> map close --name map
Map map closed!
```



Centroid

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------------------|----------------------------|-----------|-------------------|---------------------|
| input-name | The Layer name | true | | |
| output-workspace | The output Layer Workspace | true | | |
| output-name | The output Layer name | true | | |

```
geo-shell> workspace open --name layers --params memory
Workspace layers opened!
```

```
geo-shell> workspace open --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!
```

```
geo-shell> layer open --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries
```

```
geo-shell> layer style set --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries
```

```
geo-shell> layer centroid --input-name countries --output-name centroids --output-workspace
```


layers

Done!

```
geo-shell> style vector default --layer centroids --color #1E90FF --file examples/centroids.sld
Default Vector Style for centroids written to /home/travis/build/jericks/geo-shell/examples/centroids.sld!
```

```
geo-shell> layer style set --name centroids --style examples/centroids.sld
Style /home/travis/build/jericks/geo-shell/examples/centroids.sld set on centroids
```

```
geo-shell> layer open --workspace naturalearth --layer ocean --name ocean
Opened Workspace naturalearth Layer ocean as ocean
```

```
geo-shell> layer style set --name ocean --style examples/ocean.sld
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean
```

```
geo-shell> map open --name map
Map map opened!
```

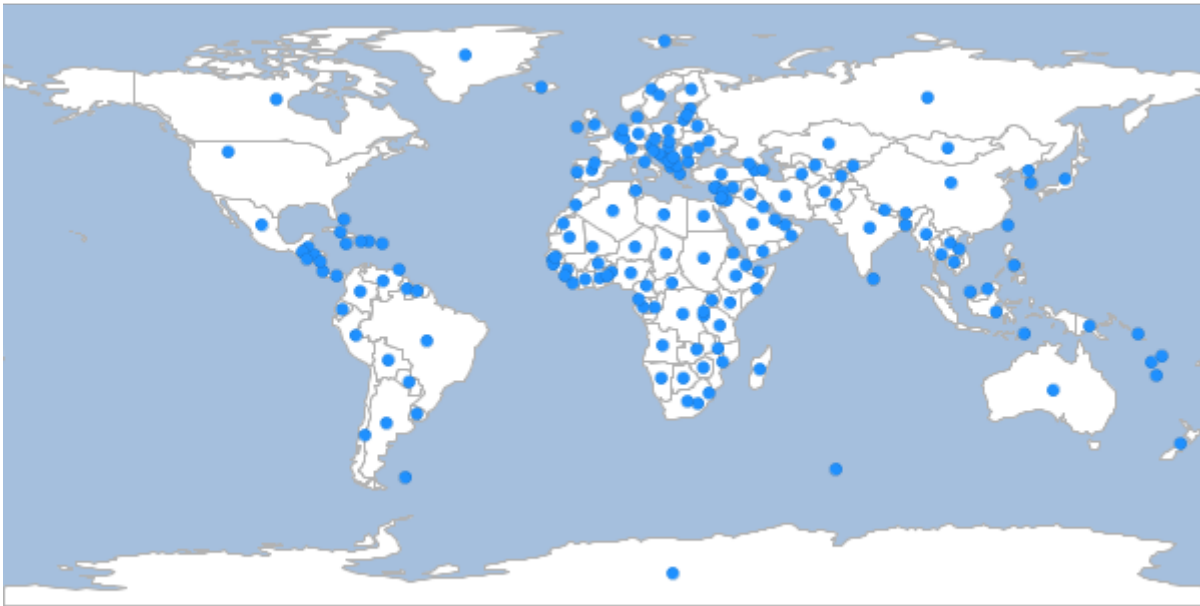
```
geo-shell> map add layer --name map --layer ocean
Added ocean layer to map map
```

```
geo-shell> map add layer --name map --layer countries
Added countries layer to map map
```

```
geo-shell> map add layer --name map --layer centroids
Added centroids layer to map map
```

```
geo-shell> map draw --name map --file examples/layer_centroid.png
Done drawing /home/travis/build/jericks/geo-shell/examples/layer_centroid.png!
```

```
geo-shell> map close --name map
Map map closed!
```



Interior Point

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------------------|----------------------------|-----------|-------------------|---------------------|
| input-name | The Layer name | true | | |
| output-workspace | The output Layer Workspace | true | | |
| output-name | The output Layer name | true | | |

```
geo-shell> workspace open --name layers --params memory
Workspace layers opened!
```

```
geo-shell> workspace open --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!
```

```
geo-shell> layer open --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries
```

```
geo-shell> layer style set --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries
```

```
geo-shell> layer interiorpoint --input-name countries --output-name interiorpoints --output
-workspace layers
Done!
```

```
geo-shell> style vector default --layer interiorpoints --color #1E90FF --file
examples/interiorpoints.sld
```

Default Vector Style for interiorpoints written to /home/travis/build/jericks/geo-shell/examples/interiorpoints.sld!

```
geo-shell> layer style set --name interiorpoints --style examples/interiorpoints.sld
```

Style /home/travis/build/jericks/geo-shell/examples/interiorpoints.sld set on interiorpoints

```
geo-shell> layer open --workspace naturalearth --layer ocean --name ocean
```

Opened Workspace naturalearth Layer ocean as ocean

```
geo-shell> layer style set --name ocean --style examples/ocean.sld
```

Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean

```
geo-shell> map open --name map
```

Map map opened!

```
geo-shell> map add layer --name map --layer ocean
```

Added ocean layer to map map

```
geo-shell> map add layer --name map --layer countries
```

Added countries layer to map map

```
geo-shell> map add layer --name map --layer interiorpoints
```

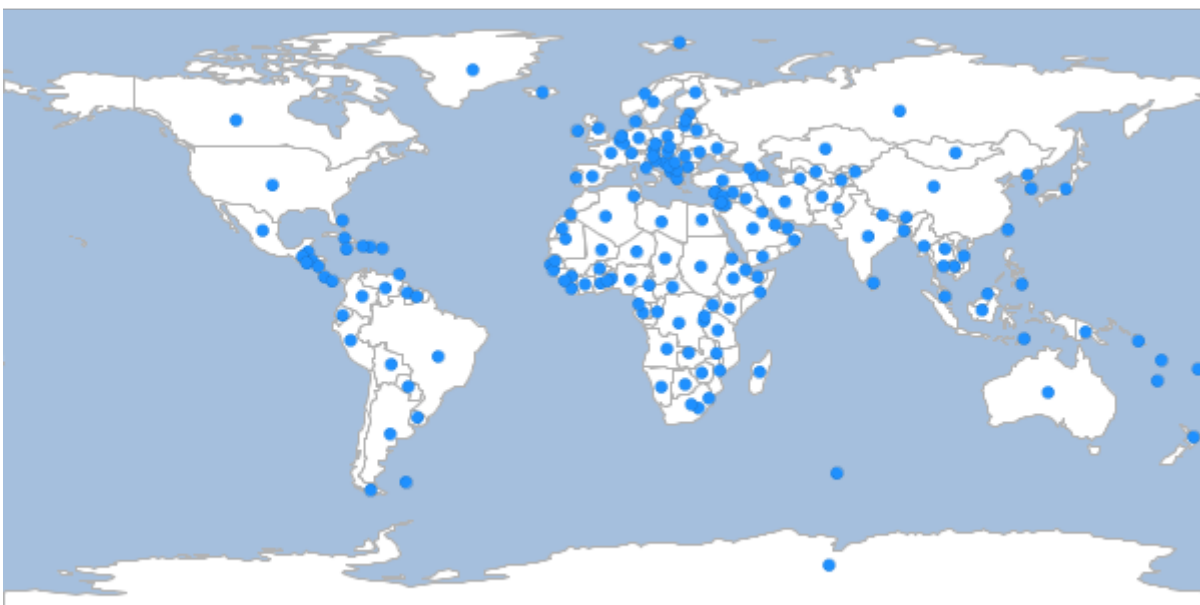
Added interiorpoints layer to map map

```
geo-shell> map draw --name map --file examples/layer_interiorpoint.png
```

Done drawing /home/travis/build/jericks/geo-shell/examples/layer_interiorpoint.png!

```
geo-shell> map close --name map
```

Map map closed!



Extent

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------------------|----------------------------|-----------|-------------------|---------------------|
| input-name | The Layer name | true | | |
| output-workspace | The output Layer Workspace | true | | |
| output-name | The output Layer name | true | | |
| geometry-field | The geometry field name | false | the_geom | the_geom |

```
geo-shell> workspace open --name layers --params memory
Workspace layers opened!
```

```
geo-shell> workspace open --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!
```

```
geo-shell> layer style set --name states --style examples/states.sld
Unable to find Layer states
```

```
geo-shell> layer open --workspace naturalearth --layer states --name states
Opened Workspace naturalearth Layer states as states
```

```
geo-shell> layer extent --input-name states --output-workspace layers --output-name usa
Done!
```

```
geo-shell> style vector default --layer usa --color #1E90FF --opacity 0.25 --file examples/extent.sld
Default Vector Style for usa written to /home/travis/build/jericks/geo-shell/examples/extent.sld!
```

```
geo-shell> layer style set --name usa --style examples/extent.sld
Style /home/travis/build/jericks/geo-shell/examples/extent.sld set on usa
```

```
geo-shell> layer open --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries
```

```
geo-shell> layer style set --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries
```

```
geo-shell> layer open --workspace naturalearth --layer ocean --name ocean
Opened Workspace naturalearth Layer ocean as ocean
```

```
geo-shell> layer style set --name ocean --style examples/ocean.sld
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean
```

```
geo-shell> map open --name map
Map map opened!
```

```
geo-shell> map add layer --name map --layer ocean
Added ocean layer to map map
```

```
geo-shell> map add layer --name map --layer countries
```

Added countries layer to map map

```
geo-shell> map add layer --name map --layer states
```

Added states layer to map map

```
geo-shell> map add layer --name map --layer usa
```

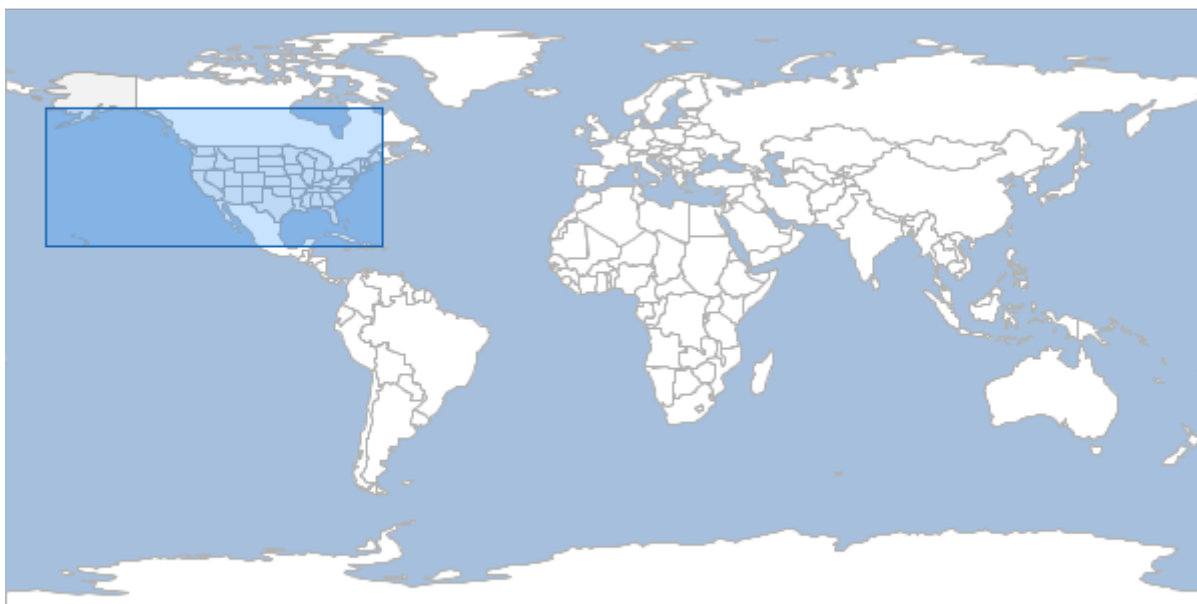
Added usa layer to map map

```
geo-shell> map draw --name map --file examples/layer_extent.png
```

Done drawing /home/travis/build/jericks/geo-shell/examples/layer_extent.png!

```
geo-shell> map close --name map
```

Map map closed!



Extents

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------------------|----------------------------|-----------|-------------------|---------------------|
| input-name | The Layer name | true | | |
| output-workspace | The output Layer Workspace | true | | |
| output-name | The output Layer name | true | | |

```
geo-shell> workspace open --name layers --params memory
```

Workspace layers opened!

```
geo-shell> workspace open --name naturalearth --params examples/naturalearth.gpkg
```

Workspace naturalearth opened!

```
geo-shell> layer style set --name states --style examples/states.sld  
Unable to find Layer states
```

```
geo-shell> layer open --workspace naturalearth --layer states --name states  
Opened Workspace naturalearth Layer states as states
```

```
geo-shell> layer extents --input-name states --output-workspace layers --output-name state_extents  
Done!
```

```
geo-shell> style vector default --layer state_extents --color #1E90FF --opacity 0.25 --file  
examples/extent.sld  
Default Vector Style for state_extents written to /home/travis/build/jericks/geo-  
shell/examples/extent.sld!
```

```
geo-shell> layer style set --name state_extents --style examples/extent.sld  
Style /home/travis/build/jericks/geo-shell/examples/extent.sld set on state_extents
```

```
geo-shell> layer open --workspace naturalearth --layer countries --name countries  
Opened Workspace naturalearth Layer countries as countries
```

```
geo-shell> layer style set --name countries --style examples/countries.sld  
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries
```

```
geo-shell> layer open --workspace naturalearth --layer ocean --name ocean  
Opened Workspace naturalearth Layer ocean as ocean
```

```
geo-shell> layer style set --name ocean --style examples/ocean.sld  
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean
```

```
geo-shell> map open --name map  
Map map opened!
```

```
geo-shell> map add layer --name map --layer ocean  
Added ocean layer to map map
```

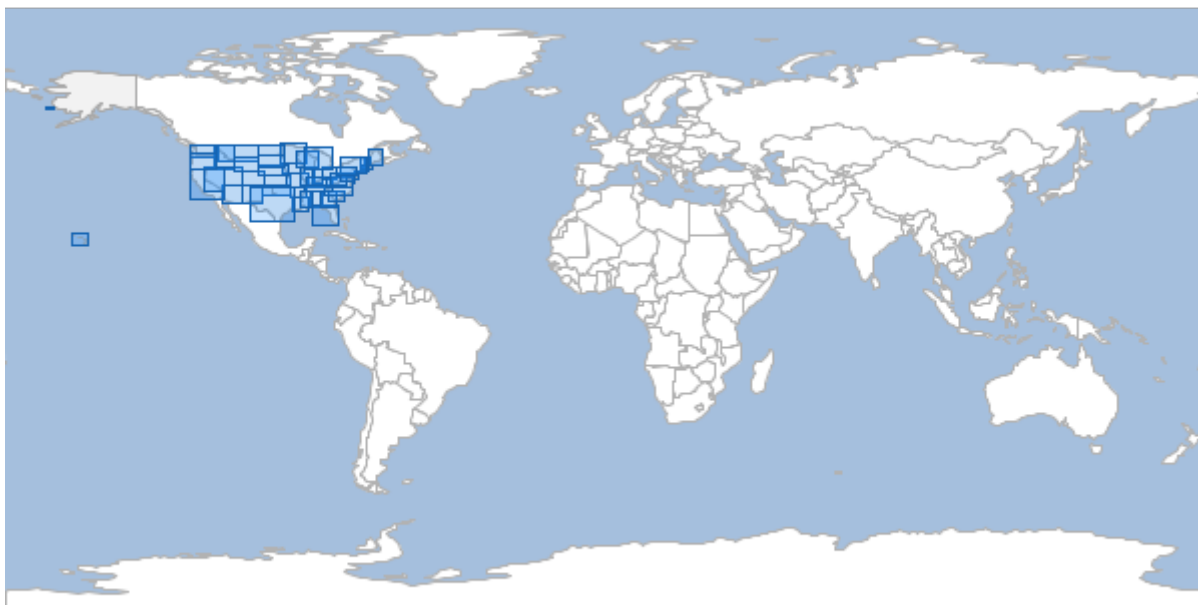
```
geo-shell> map add layer --name map --layer countries  
Added countries layer to map map
```

```
geo-shell> map add layer --name map --layer states  
Added states layer to map map
```

```
geo-shell> map add layer --name map --layer state_extents  
Added state_extents layer to map map
```

```
geo-shell> map draw --name map --file examples/layer_extents.png  
Done drawing /home/travis/build/jericks/geo-shell/examples/layer_extents.png!
```

```
geo-shell> map close --name map  
Map map closed!
```



Graticule

Square

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|-----------|--------------------|-----------|-------------------|---------------------|
| workspace | The Workspace name | true | | |
| name | The new Layer name | true | | |
| bounds | The bounds | true | | |
| length | The length | true | | |
| spacing | The spacing | false | -1 | -1 |

```
geo-shell> workspace open --name layers --params memory
Workspace layers opened!
```

```
geo-shell> layer graticule square --workspace layers --name squares --bounds -180,-90,180,90
--length 20
Created Square Graticule Layer squares!
```

```
geo-shell> style vector default --layer squares --color #1E90FF --opacity 0.30 --file
examples/squares.sld
Default Vector Style for squares written to /home/travis/build/jericks/geo-shell/examples/squares.sld!
```

```
geo-shell> layer style set --name squares --style examples/squares.sld
```

Style /home/travis/build/jericks/geo-shell/examples/squares.sld set on squares

geo-shell> **workspace open** --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!

geo-shell> **layer open** --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries

geo-shell> **layer style set** --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries

geo-shell> **layer open** --workspace naturalearth --layer ocean --name ocean
Opened Workspace naturalearth Layer ocean as ocean

geo-shell> **layer style set** --name ocean --style examples/ocean.sld
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean

geo-shell> **map open** --name graticule
Map graticule opened!

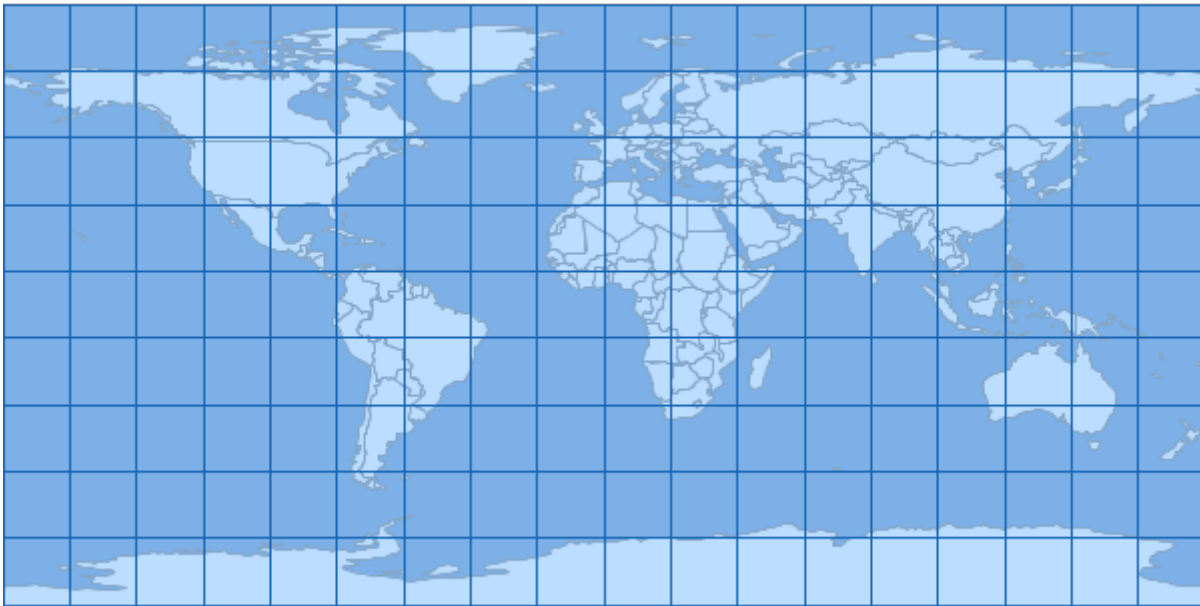
geo-shell> **map add layer** --name graticule --layer ocean
Added ocean layer to map graticule

geo-shell> **map add layer** --name graticule --layer countries
Added countries layer to map graticule

geo-shell> **map add layer** --name graticule --layer squares
Added squares layer to map graticule

geo-shell> **map draw** --name graticule --file examples/square_graticules.png
Done drawing /home/travis/build/jericks/geo-shell/examples/square_graticules.png!

geo-shell> **map close** --name graticule
Map graticule closed!



Recangle

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|-----------|--------------------|-----------|-------------------|---------------------|
| workspace | The Workspace name | true | | |
| name | The new Layer name | true | | |
| bounds | The bounds | true | | |
| width | The width | true | | |
| height | The height | true | | |
| spacing | The spacing | false | -1 | -1 |

```
geo-shell> workspace open --name layers --params memory
Workspace layers opened!
```

```
geo-shell> layer graticule rectangle --workspace layers --name rectangles --bounds -180,-90,180,90
--width 20 --height 10
Created Rectangle Graticule Layer rectangles!
```

```
geo-shell> style vector default --layer rectangles --color #1E90FF --opacity 0.30 --file
examples/rectangles.sld
Default Vector Style for rectangles written to /home/travis/build/jericks/geo-shell/examples/rectangles.sld!
```

```
geo-shell> layer style set --name rectangles --style examples/rectangles.sld
Style /home/travis/build/jericks/geo-shell/examples/rectangles.sld set on rectangles
```

```
geo-shell> workspace open --name naturalearth --params examples/naturalearth.gpkg
```

Workspace naturalearth opened!

```
geo-shell> layer open --workspace naturalearth --layer countries --name countries
```

Opened Workspace naturalearth Layer countries as countries

```
geo-shell> layer style set --name countries --style examples/countries.sld
```

Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries

```
geo-shell> layer open --workspace naturalearth --layer ocean --name ocean
```

Opened Workspace naturalearth Layer ocean as ocean

```
geo-shell> layer style set --name ocean --style examples/ocean.sld
```

Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean

```
geo-shell> map open --name graticule
```

Map graticule opened!

```
geo-shell> map add layer --name graticule --layer ocean
```

Added ocean layer to map graticule

```
geo-shell> map add layer --name graticule --layer countries
```

Added countries layer to map graticule

```
geo-shell> map add layer --name graticule --layer rectangles
```

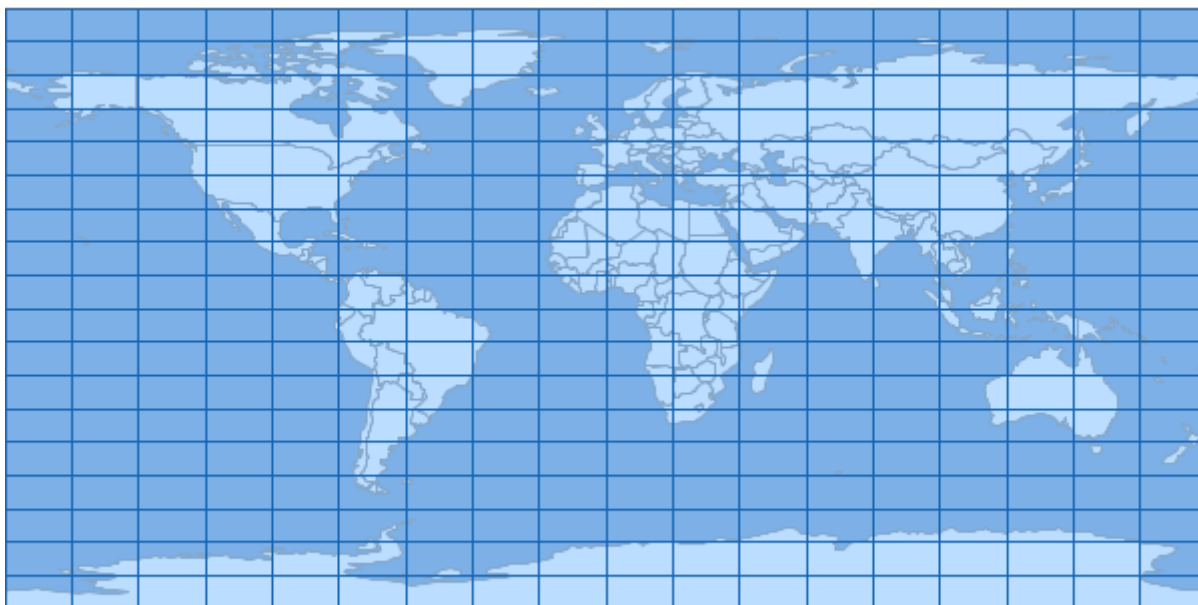
Added rectangles layer to map graticule

```
geo-shell> map draw --name graticule --file examples/rectangle_graticules.png
```

Done drawing /home/travis/build/jericks/geo-shell/examples/rectangle_graticules.png!

```
geo-shell> map close --name graticule
```

Map graticule closed!



Oval

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|-----------|--------------------|-----------|-------------------|---------------------|
| workspace | The Workspace name | true | | |
| name | The new Layer name | true | | |
| bounds | The bounds | true | | |
| size | The size | true | | |

```
geo-shell> workspace open --name layers --params memory
Workspace layers opened!
```

```
geo-shell> layer graticule oval --workspace layers --name ovals --bounds -180,-90,180,90 --size 20
Created Oval Graticule Layer ovals!
```

```
geo-shell> style vector default --layer ovals --color #1E90FF --opacity 0.30 --file examples/ovals.sld
Default Vector Style for ovals written to /home/travis/build/jericks/geo-shell/examples/ovals.sld!
```

```
geo-shell> layer style set --name ovals --style examples/ovals.sld
Style /home/travis/build/jericks/geo-shell/examples/ovals.sld set on ovals
```

```
geo-shell> workspace open --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!
```

```
geo-shell> layer open --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries
```

```
geo-shell> layer style set --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries
```

```
geo-shell> layer open --workspace naturalearth --layer ocean --name ocean
Opened Workspace naturalearth Layer ocean as ocean
```

```
geo-shell> layer style set --name ocean --style examples/ocean.sld
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean
```

```
geo-shell> map open --name graticule
Map graticule opened!
```

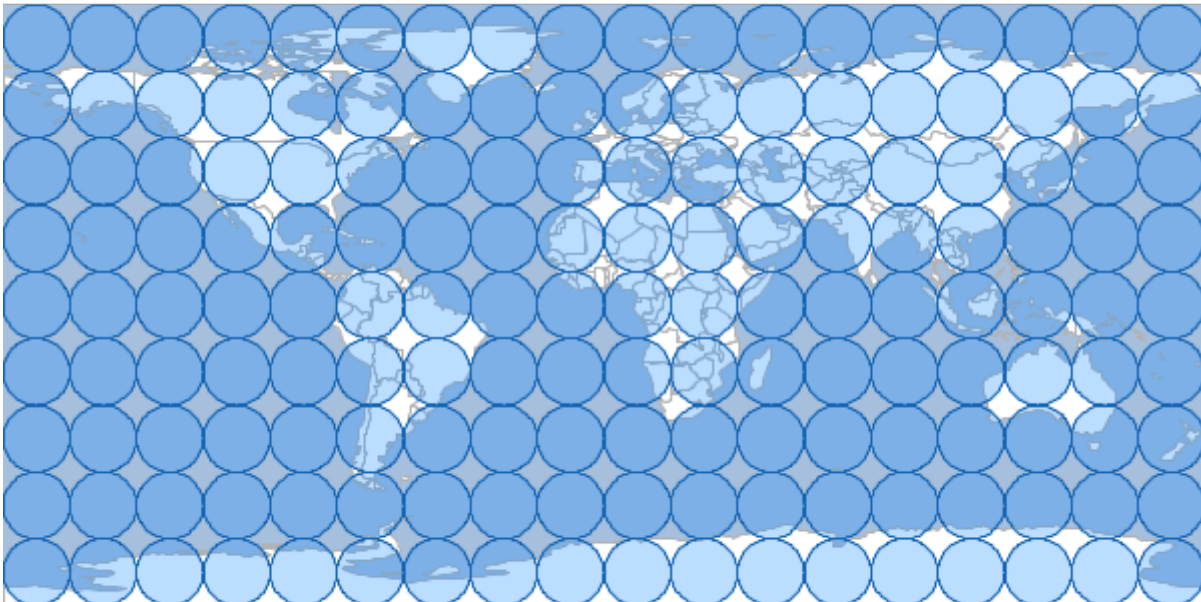
```
geo-shell> map add layer --name graticule --layer ocean
Added ocean layer to map graticule
```

```
geo-shell> map add layer --name graticule --layer countries
Added countries layer to map graticule
```

```
geo-shell> map add layer --name graticule --layer ovals
Added ovals layer to map graticule
```

```
geo-shell> map draw --name graticule --file examples/oval_graticules.png
Done drawing /home/travis/build/jericks/geo-shell/examples/oval_graticules.png!
```

```
geo-shell> map close --name graticule
Map graticule closed!
```



Hexagon

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|-------------|----------------------------------|-----------|-------------------|---------------------|
| workspace | The Workspace name | true | | |
| name | The new Layer name | true | | |
| bounds | The bounds | true | | |
| length | The length | true | | |
| spacing | The spacing | false | 5 | 5 |
| orientation | The orientation (flat or angled) | false | flat | flat |

geo-shell> **workspace open** --name layers --params memory
Workspace layers opened!

geo-shell> **layer graticule hexagon** --workspace layers --name hexagons --bounds -180,-90,180,90 --length 10
Created Hexagon Graticule Layer hexagons!

geo-shell> **style vector default** --layer hexagons --color #1E90FF --opacity 0.30 --file examples/hexagons.sld
Default Vector Style for hexagons written to /home/travis/build/jericks/geo-shell/examples/hexagons.sld!

geo-shell> **layer style set** --name hexagons --style examples/hexagons.sld
Style /home/travis/build/jericks/geo-shell/examples/hexagons.sld set on hexagons

geo-shell> **workspace open** --name naturalearth --params examples/naturalearth.gpkg
Workspace naturalearth opened!

geo-shell> **layer open** --workspace naturalearth --layer countries --name countries
Opened Workspace naturalearth Layer countries as countries

geo-shell> **layer style set** --name countries --style examples/countries.sld
Style /home/travis/build/jericks/geo-shell/examples/countries.sld set on countries

geo-shell> **layer open** --workspace naturalearth --layer ocean --name ocean
Opened Workspace naturalearth Layer ocean as ocean

geo-shell> **layer style set** --name ocean --style examples/ocean.sld
Style /home/travis/build/jericks/geo-shell/examples/ocean.sld set on ocean

geo-shell> **map open** --name graticule
Map graticule opened!

geo-shell> **map add layer** --name graticule --layer ocean
Added ocean layer to map graticule

geo-shell> **map add layer** --name graticule --layer countries

Added countries layer to map graticule

```
geo-shell> map add layer --name graticule --layer hexagons
```

Added hexagons layer to map graticule

```
geo-shell> map draw --name graticule --file examples/hexagon_graticules.png
```

Done drawing /home/travis/build/jericks/geo-shell/examples/hexagon_graticules.png!

```
geo-shell> map close --name graticule
```

Map graticule closed!

