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## 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!

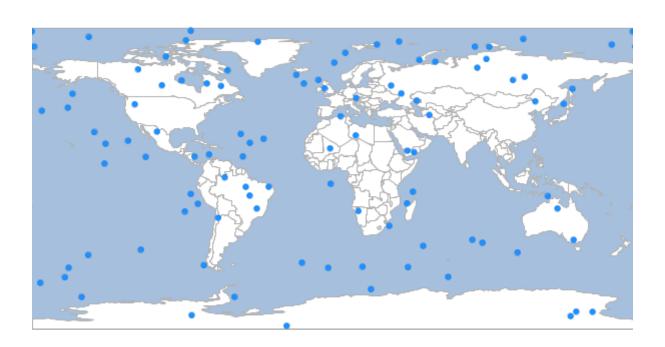
geo-shell> **map add layer** --name randomMap --layer ocean Added ocean layer to map randomMap

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

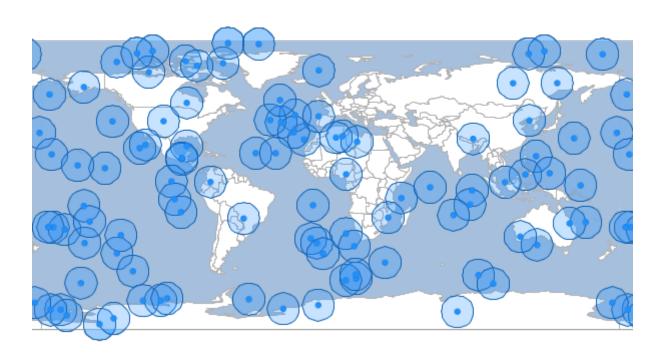
geo-shell> **map add layer** --name map --layer countries Added countries layer to map map

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	true	
	name		

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!

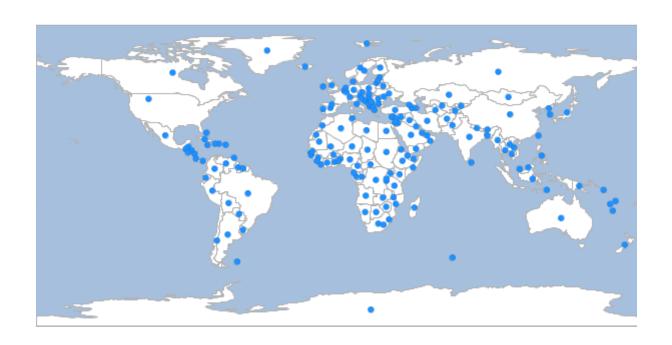
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

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!

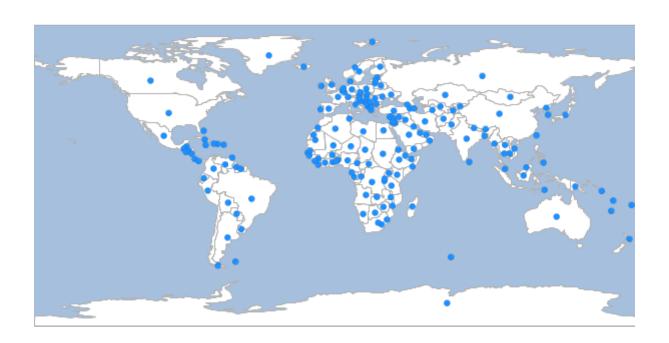
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

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!

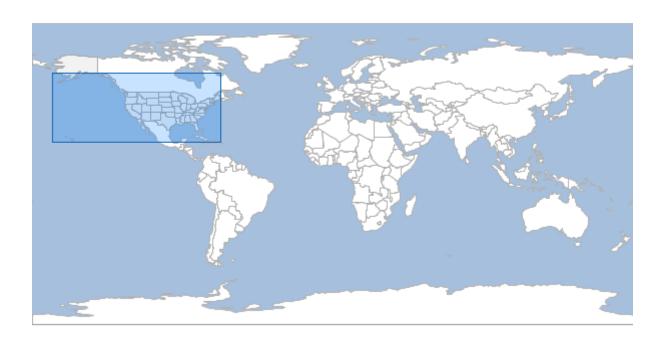
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map geo-shell> **map add layer** --name map --layer countries Added countries layer to map map

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!

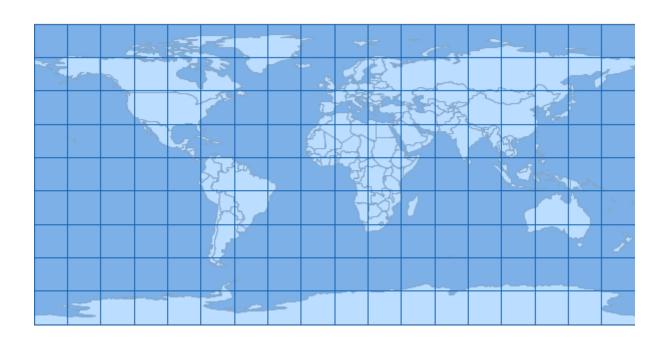
geo-shell> **map add layer** --name graticule --layer ocean Added ocean layer to map graticule

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!

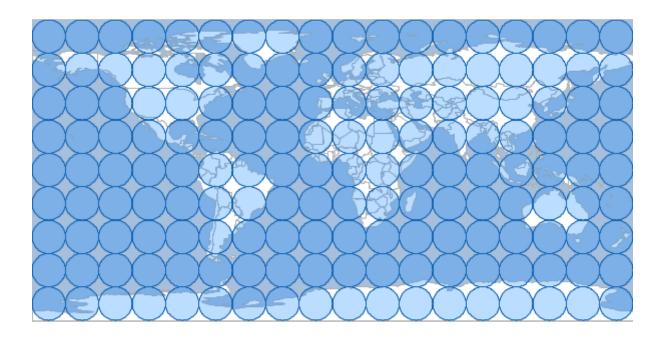
geo-shell> **map add layer** --name graticule --layer ocean Added ocean layer to map graticule

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!

