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Layer

Basics

Open

Open a Layer.

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

Name	Description	Mandatory	Specified Default	Unspecified Default
workspace	The Workspace name	true		
layer	The Layer name	true		
name	The name	false		

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

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

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

Close

Close a Layer.

geo-shell> layer close --name countries

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		

geo-shell> **workspace open** --name naturalearth --params src/test/resources/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 close** --name countries Layer countries closed!

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

List

List open Layers.

geo-shell> layer list



No parameters

geo-shell> **workspace open** --name naturalearth --params src/test/resources/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 open** --workspace naturalearth --layer ocean --name ocean Opened Workspace naturalearth Layer ocean as ocean

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

geo-shell> **layer list** countries = GeoPackage ocean = GeoPackage states = GeoPackage

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

Schema

Inspect a Layer's Schema.

geo-shell> layer schema --name countries

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		

geo-shell> **workspace open** --name naturalearth --params src/test/resources/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 schema** --name countries Name Type

the_geom MultiPolygon ScaleRank Integer FeatureCla String **SOVEREIGNT String**

SOVISO String

SOV_A3 String

LEVEL Double

TYPE String

NAME String

SORTNAME String

ADM0_A3 String

NAME_SM String

NAME_LNG String

TERR_ String

PARENTHETI String

NAME_ALT String

LOCAL_LNG String

LOCAL_SM String

FORMER String

ABBREV_String

MAP COLOR Double

PEOPLE Double

GDP_USDM Double

FIPS_10 String

ISO_A2 String

ISO_A3 String

ISO_N3 Double

ITU String

IOC String

FIFA String

DS String

WMO String

GAUL Double

MARC String

STANAG1059 String

GW_ID Double

DIAL Double

INTERNET_String

COG String

ACTUAL String

CAPAY String

CRPAY String

ANI String

LIBENR String

ANCNOM String

PAYS_R_GIO String

COMMENT String

geo-shell> workspace close --name naturalearth

Workspace naturalearth closed!

Count

Count the Feature in a Layer.

geo-shell> layer count --name countries

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		

geo-shell> **workspace open** --name naturalearth --params src/test/resources/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 count** --name countries 177

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

Projection

Get the Projection of a Layer.

geo-shell> layer projection --name countries

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		

geo-shell> **workspace open** --name naturalearth --params src/test/resources/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 projection** --name countries EPSG:4326

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

Features

Display the Features of a Layer.

geo-shell> layer features --name states --filter "NAME_1='North Dakota'"

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		
filter	The CQL Filter	false		
sort	A Sort parameter (fld dir)	false		
start	The start index	false		-1
max	The maximum number of records	false		-1
field	A subfield to include	false		

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

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

geo-shell> layer features --name states --filter "NAME_1='North Dakota'"

Feature (states.3)

the_geom = MULTIPOLYGON

FID 1 = 31

ScaleRank = 2

FeatureCla = 1st Order Admin Polys

OBJECTID = 22

VertexCou = 223.0

ISO = USA

NAME_0 = United States

NAME_1 = North Dakota

 $VARNAME_1 = ND | N.D.$

 $NL_NAME_1 =$

 $HASC_1 = US.ND$

TYPE_1 = State

ENGTYPE_1 = State

VALIDFR_1 = 18891102

VALIDTO_1 = Present

REMARKS_1 =

Region =

RegionVar =

ProvNumber = 23

NEV Countr = United States

FIRST_FIPS =

FIRST_HASC =

 $FIPS_1 = US38$

gadm_level = 1.0

CheckMe = 0

Region_Cod =

Region_C_1 =

ScaleRan_1 = 1

Region_C_2 =

Region_C_3 =

Country_Pr =

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

Get Style

Get the Layer's style.

geo-shell> layer style get --name states --style target/states.sld

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		
style	The SLD File	false		

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

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

geo-shell> **style vector default** --layer states --color #1E90FF --file examples/states_simple.sld

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

geo-shell> **layer style get** --name states --style target/states.sld states style written to /home/travis/build/jericks/geo-shell/target/states.sld

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

```
<?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor</pre>
xmlns="http://www.opengis.net/sld" xmlns:sld="http://www.opengis.net/sld"
xmlns:gml="http://www.opengis.net/gml" xmlns:ogc="http://www.opengis.net/ogc"
version="1.0.0">
 <sld:UserLayer>
    <sld:LayerFeatureConstraints>
      <sld:FeatureTypeConstraint/>
    </sld:LayerFeatureConstraints>
    <sld:UserStyle>
      <sld:Name>Default Styler</sld:Name>
      <sld:FeatureTypeStyle>
        <sld:Name>name</sld:Name>
        <sld:Rule>
          <sld:PolygonSymbolizer>
            <sld:Fill>
              <sld:CssParameter name="fill">#f2f2f2</sld:CssParameter>
            </sld:Fill>
          </sld:PolygonSymbolizer>
          <sld:LineSymbolizer>
            <sld:Stroke>
              <sld:CssParameter name="stroke">#a9a9a9</sld:CssParameter>
              <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
            </sld:Stroke>
          </sld:LineSymbolizer>
        </sld:Rule>
      </sld:FeatureTypeStyle>
    </sld:UserStyle>
 </sld:UserLayer>
</sld:StyledLayerDescriptor>
```

Set Style

Set a Layer's style

geo-shell> layer style get --name states --style target/states_simple.sld

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		
style	The SLD or CSS File	true		

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

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

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

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

geo-shell> **layer style get** --name states --style target/states_simple.sld states style written to /home/travis/build/jericks/geo-shell/target/states_simple.sld

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

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

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

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

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





Copy

Copy one Layer to another Workspace.

geo-shell> layer copy --input-name states_gpkg --output-workspace shapefiles --output-name states

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	
filter	The CQL Filter	false	
sort	A Sort parameter (fld dir)	false	
start	The start index	false	-1
max	The maximum number of records	false	-1
field	A subfield to include	false	

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

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

geo-shell> **workspace open** --name shapefiles --params target/ Workspace shapefiles opened!

geo-shell> **layer copy** --input-name states_gpkg --output-workspace shapefiles --output-name states Done!

geo-shell> **layer count** --name states 52

geo-shell> **workspace close** --name shapefiles Workspace shapefiles closed!

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

Create

Create a new Layer.

geo-shell> **layer create** --workspace mem --name points --fields "the_geom=Point EPSG:4326|fid=Int|name=String"

Name	Description	Mandatory	Specified Default	Unspecified Default
workspace	The Workspace name	true		

name	The new Layer name	true	
fields	The pipe delimited list of fields (name=type)	true	

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

geo-shell> **layer create** --workspace mem --name points --fields "the_geom=Point EPSG:4326|fid=Int|name=String"

Created Layer points!

geo-shell> **layer schema** --name points

Name Type

the_geom Point fid Integer name String

Add

Add a new Feature to a Layer.

geo-shell> **layer add** --name points --values "the_geom=POINT (-122.333056 47.609722)|fid=1|name=Seattle"

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		
values	The pipe delimited list of values (field=value)	true		

geo-shell> **workspace open** --name mem --params memory

Workspace mem opened!

geo-shell> **layer create** --workspace mem --name points --fields "the_geom=Point EPSG:4326|fid=Int|name=String"

Created Layer points!

geo-shell> **layer add** --name points --values "the_geom=POINT (-122.333056 47.609722)|fid=1|name=Seattle"

Added Feature to points

geo-shell> **layer add** --name points --values "the_geom=POINT (-122.459444 47.241389)|fid=2|name=Tacoma" Added Feature to points

Delete

Delete features from the Layer

geo-shell> layer delete --name points --filter "fid=2"

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		
filter	The CQL Filter	true		

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

geo-shell> **layer create** --workspace mem --name points --fields "the_geom=Point EPSG:4326|fid=Int|name=String" Created Layer points!

geo-shell> **layer add** --name points --values "the_geom=POINT (-122.459444 47.241389)|fid=2|name=Tacoma" Added Feature to points

geo-shell> **layer count** --name points 2

geo-shell> **layer delete** --name points --filter "fid=2" Deleted fid=2 Features from points

geo-shell> **layer count** --name points 1

Remove

Remove a Layer from a Workspace.

geo-shell> layer remove --layer polygons --workspace mem

Name	Description	Mandatory	Specified Default	Unspecified Default
workspace	The Workspace name	true		
layer	The Layer name	true		

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

geo-shell> **layer create** --workspace mem --name points --fields "the_geom=Point EPSG:4326|fid=Int|name=String" Created Layer points!

geo-shell> **layer create** --workspace mem --name lines --fields "the_geom=LineString EPSG:4326|fid=Int|name=String" Created Layer lines!

geo-shell> **layer create** --workspace mem --name polygons --fields "the_geom=Polygon EPSG:4326|fid=Int|name=String" Created Layer polygons!

geo-shell> **workspace layers** --name mem lines points polygons

geo-shell> **layer remove** --layer polygons --workspace mem Layer polygons removed from Workspace mem

geo-shell> **workspace layers** --name mem lines points

Update Field

Update the values of a field

geo-shell> layer updatefield --name points --field state --value WA

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		
field	The field name	true		
value	The value	true		
filter	The CQL Filter	false	INCLUDE	INCLUDE
script	Whether the value is a script or not	false	false	false

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

geo-shell> **layer create** --workspace mem --name points --fields "the_geom=Point EPSG:4326|fid=Int|name=String|state=String" Created Layer points!

geo-shell> **layer add** --name points --values "the_geom=POINT (-122.333056 47.609722)|fid=1|name=Seattle"

Added Feature to points

geo-shell> **layer add** --name points --values "the_geom=POINT (-122.459444 47.241389)|fid=2|name=Tacoma" Added Feature to points

geo-shell> **layer updatefield** --name points --field state --value WA Done updating state with WA!

geo-shell> layer features --name points

Feature (fid-479ce5ac_16fc42704d0_-79e6)

the_geom = POINT (-122.333056 47.609722)

fid = 1

name = Seattle

state = WA

Feature (fid-479ce5ac_16fc42704d0_-79e4)

the_geom = POINT (-122.459444 47.241389)

fid = 2

name = Tacoma

state = WA

Add Fields

Add Fields to the input Layer and save the result to the output Layer

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		
fields	The Fields (name=type proj)	true		

Add Area Field

Add area Field to the input Layer and save the result to the output Layer

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		
area-fieldname	The area field name	true	area	area

Add ID Field

Add area ID to the input Layer and save the result to the output Layer

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		
id-fieldname	The id field name	true	id	id
start-value	The value to start at	true	1	1

Add XY Fields

 $\label{eq:conditional} \mbox{Add x and y coordinate Fields to the input Layer and save the result to the output Layer}$

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		
x-fieldname	The x field name	true	X	X
y-fieldname	The y field name	true	у	у

Validity

Check for invalid geometries in the Layer.

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		

fields	A comma	false	
	delimited list of		
	Fields to include		

Geoprocessing

Clip

Clip the input Layer by the other Layer to produce the output Layer

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

Convex Hull

Calculate the convexhull of the input Layer and save it to the output Layer.

geo-shell> **layer convexhull** --input-name countries --output-workspace layers --output-name convexhull

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 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> **layer convexhull** --input-name countries --output-workspace layers --output-name convexhull

Done!

geo-shell> **style vector default** --layer convexhull --color #1E90FF --opacity 0.25 --file examples/convexhull.sld

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

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

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

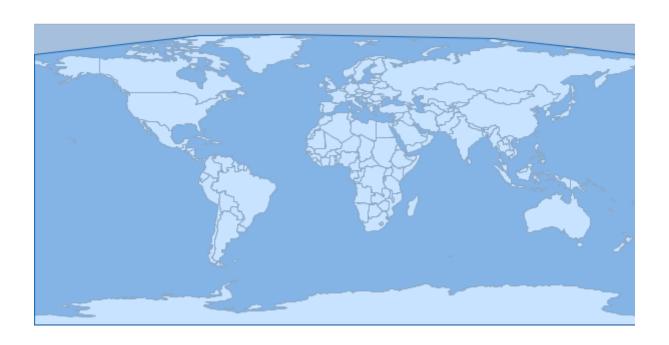
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

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

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

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

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



Convex Hulls

Calculate the convexhull of each Feature in the input Layer and save them to the output Layer.

geo-shell> **layer convexhulls** --input-name countries --output-workspace layers --output-name convexhulls

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 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> **layer convexhulls** --input-name countries --output-workspace layers --output-name convexhulls

Done!

geo-shell> **style vector default** --layer convexhulls --color #1E90FF --opacity 0.25 --file examples/convexhulls.sld

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

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

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 convexhulls Added convexhulls layer to map map

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

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



Coordinates

Extract the coordinates each Feature in the input Layer and save them to the output Layer.

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		

Delaunay

Calculate a delaunay diagram of the input Layer and save it to the output Layer.

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

Densify

Densify the features of the input Layer and save them to the output Layer

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 distance tolerance	true		

Dissolve

Dissolve the Features of a Layer by a Field.

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		
field	The field to use to dissolve features	true		
idField	The name of the id field	false	id	id
countField	The name of the count field	false	count	count

Erase

Erase one Layer from another Layer

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

Grid Row / Column

Create a grid Layer with rows and columns

Name	Description	Mandatory	Specified Default	Unspecified Default
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
rows	The number of rows	true		
columns	The number of columns	true		
geometry	The constraining geometry	true		
type	The geometry type (point or polygon	false	polygon	polygon
projection	The projection	false	EPSG:4326	EPSG:4326
geometry-field	The geometry field name	false	the_geom	the_geom

Grid Width / Height

Create a grid Layer with cell width and height

Name	Description	Mandatory	Specified Default	Unspecified Default
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
cell-width	The width of each cell	true		
cell-height	The height of each cell	true		
geometry	The constraining geometry	true		
type	The geometry type (point or polygon	false	polygon	polygon
projection	The projection	false	EPSG:4326	EPSG:4326
geometry-field	The geometry field name	false	the_geom	the_geom

Identity

Calculate the intersection between a Layer with another Layer

Name	Description	Mandatory	Specified Default	Unspecified Default
input-name	The Layer name	true		
other-name	The other Layer name	true		
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
postfix-all	Whether to postfix all field names when combining schemas	false	false	false
include-duplicates	Whether to include duplicate field names	false	true	true

Intersection

Calculate the intersection between a Layer with another Layer

Name	Description	Mandatory	Specified Default	Unspecified Default
input-name	The Layer name	true		
other-name	The other Layer name	true		
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
postfix-all	Whether to postfix all field names when combining schemas	false	false	false
include-duplicates	Whether to include duplicate field names	false	true	true

Minimum Circle

Calculate the minimum bounding circle of the input Layer and save it to the output Layer.

geo-shell> **layer mincircle** --input-name countries --output-workspace layers --output-name mincircle

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 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> **layer mincircle** --input-name countries --output-workspace layers --output-name mincircle

Done!

geo-shell> **style vector default** --layer mincircle --color #1E90FF --opacity 0.25 --file examples/mincircle.sld

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

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

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

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

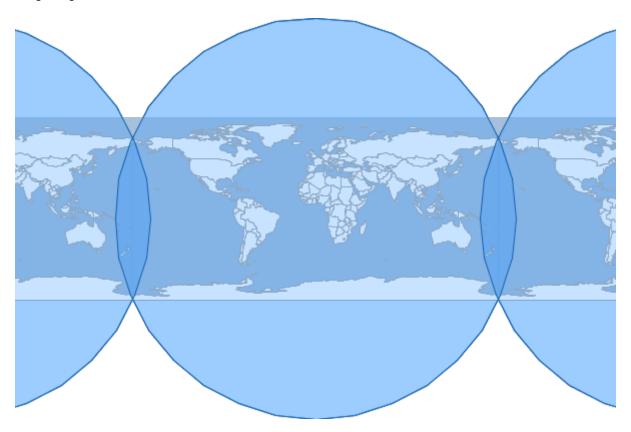
geo-shell> map add layer --name map --layer countries

Added countries layer to map map

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

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

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



Minimum Circles

Calculate the minimum bounding circle of each Feature in the input Layer and save them to the output Layer.

geo-shell> **layer mincircles** --input-name countries --output-workspace layers --output-name mincircles

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 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> **layer mincircles** --input-name countries --output-workspace layers --output-name mincircles

Done!

geo-shell> **style vector default** --layer mincircles --color #1E90FF --opacity 0.25 --file examples/mincircles.sld

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

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

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 mincircles Added mincircles layer to map map

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

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



Minimum Rectangle

Calculate the minimum rectangle of the input Layer and save it to the output Layer.

geo-shell> layer minrect --input-name countries --output-workspace layers --output-name minrect

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 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> **layer minrect** --input-name countries --output-workspace layers --output-name minrect Done!

geo-shell> style vector default --layer minrect --color #1E90FF --opacity 0.25 --file examples/minrect.sld

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

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

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 minrect Added minrect layer to map map

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

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



Minimum Rectangles

Calculate the minimum rectangle of each Feature in the input Layer and save them to the output Layer.

geo-shell> **layer minrects** --input-name countries --output-workspace layers --output-name minrects

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 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> **layer minrects** --input-name countries --output-workspace layers --output-name minrects

Done!

geo-shell> **style vector default** --layer minrects --color #1E90FF --opacity 0.25 --file examples/minrects.sld

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

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

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

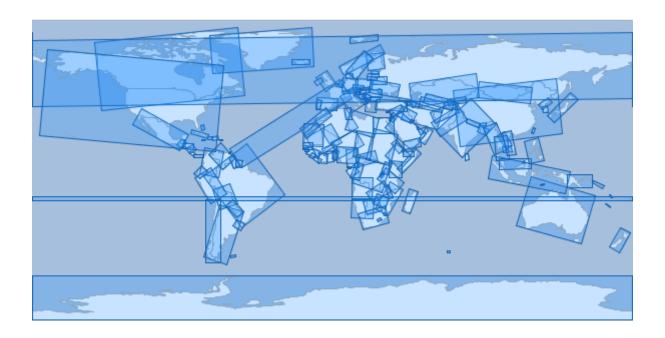
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

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

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

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

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



Octangle Envelope

Calculate the octagonal envelope of the input Layer and save it to the output Layer.

geo-shell> **layer octagonalenvelope** --input-name countries --output-workspace layers --output -name octagonalenvelope

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 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

 ${\it geo-shell} \verb|> layer octagonal envelope -- input-name countries -- output-work space layers -- output-name octagonal envelope$

Done!

geo-shell> $style\ vector\ default\ --$ layer octagonalenvelope --color #1E90FF --opacity 0.25 --file examples/octagonalenvelope.sld

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

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

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 octagonalenvelope Added octagonalenvelope layer to map map

geo-shell> **map draw** --name map --file examples/layer_octagonalenvelope.png

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

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



Octangle Envelopes

Calculate the octagonal envelope of each Feature in the input Layer and save them to the output Layer.

geo-shell> **layer octagonalenvelopes** --input-name countries --output-workspace layers --output -name octagonalenvelopes

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 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

 ${\it geo-shell} \verb|> layer octagonal envelopes --input-name countries --output-workspace layers --output-name octagonal envelopes$

Done!

geo-shell> $style\ vector\ default\ --$ layer octagonalenvelopes --color #1E90FF --opacity 0.25 --file examples/octagonalenvelopes.sld

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

geo-shell> **layer style set** --name octagonalenvelopes --style examples/octagonalenvelopes.sld

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

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 octagonalenvelopes Added octagonalenvelopes layer to map map

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

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



Points Along Lines

Create points along lines

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 distance between points	true		

Simplify

Simplify the features of the input Layer and save them to the output Layer

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		

algorithm	The simplify algorithm (DouglasPeucker - dp or TopologyPreservin g - tp)	false	tp	tp
distance	The distance tolerance	true		

Symmetric Difference

Calculate the symmetric difference between a Layer and another Layer.

Name	Description	Mandatory	Specified Default	Unspecified Default
input-name	The Layer name	true		
other-name	The other Layer name	true		
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
postfix-all	Whether to postfix all field names when combining schemas	false	false	false
include-duplicates	Whether to include duplicate field names	false	true	true

Transform

Transform the features of the input Layer and save them to the output Layer

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		
transforms	The pipe delimited list of transforms (field=expression or function)	true		

Union

Union a Layer with another Layer

Name	Description	Mandatory	Specified Default	Unspecified Default
input-name	The Layer name	true		
other-name	The other Layer name	true		
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
postfix-all	Whether to postfix all field names when combining schemas	false	false	false
include-duplicates	Whether to include duplicate field names	false	true	true

Update

Calculate the update between a Layer with another Layer

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

Voronoi

Calculate a voronoi diagram of the input Layer and save it to the output Layer.

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	false	the_geom	the_geom
	name			

Random Points

Create a Layer with a number of randomly located points

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

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!

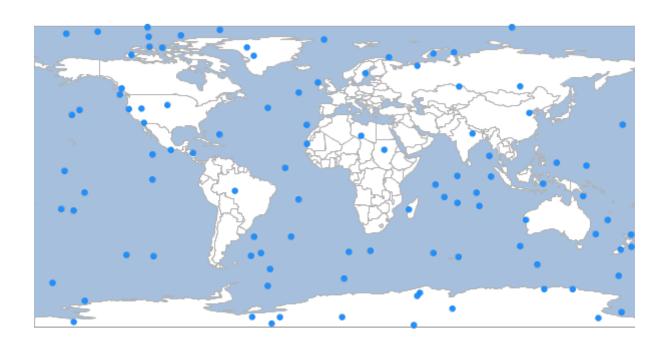
geo-shell> **map add layer** --name randomMap --layer ocean Added ocean layer to map randomMap

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

Buffer the input Layer to the output Layer.

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

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!

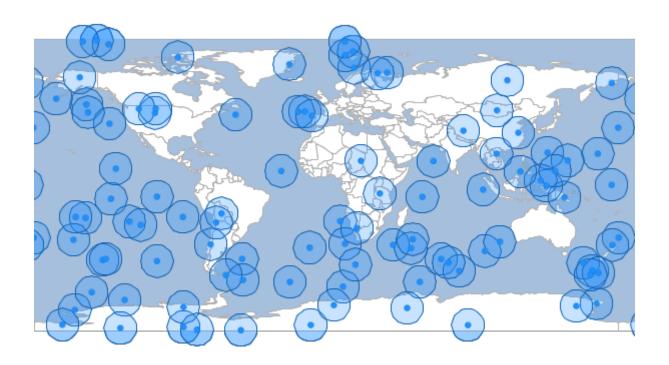
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

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!



Centroid

Calculate the centroids of the input Layer to the output Layer.

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

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!



Interior Point

Calculate the interior points of the input Layer to the output Layer.

geo-shell> **layer interiorpoint** --input-name countries --output-name interiorpoints --output -workspace layers

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

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!



Extent

Calculate the extent of the input Layer and save it to the output Layer.

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

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!

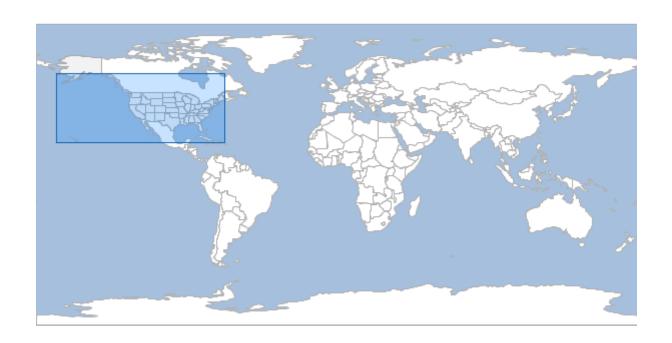
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

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!



Extents

Calculate the extents of each Feature in the input Layer and save them to the output Layer.

geo-shell> layer extents --input-name states --output-workspace layers --output-name state_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!



Graticule

Square

Create a square graticule.

geo-shell> **layer graticule square** --workspace layers --name squares --bounds -180,-90,180,90 --length 20

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!



Rectangle

Create a rectangle graticule.

geo-shell> **layer graticule rectangle** --workspace layers --name rectangles --bounds -180,-90,180,90 --width 20 --height 10

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!

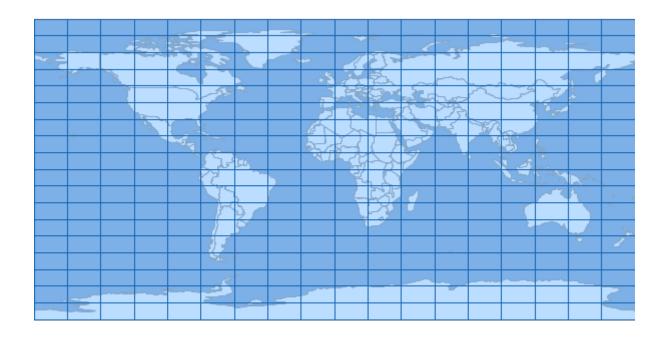
geo-shell> **map add layer** --name graticule --layer ocean Added ocean layer to map graticule

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

Create a oval graticule.

geo-shell> layer graticule oval --workspace layers --name ovals --bounds -180,-90,180,90 --size 20

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

Create a hexagon graticule.

geo-shell> **layer graticule hexagon** --workspace layers --name hexagons --bounds -180,-90,180,90 --length 10

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!

