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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—6cd800bb_17060b938ca_-7890)

the_geom = POINT (-122.333056 47.609722)

fid = 1

name = Seattle

state = WA

Feature (fid—6cd800bb_17060b938ca_-788e)

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

geo-shell> **layer addfields** --input-name points --output-workspace mem --output-name points2 --fields "name=String,state=String"

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		

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" Created Layer points!

geo-shell> **layer addfields** --input-name points --output-workspace mem --output-name points2 --fields "name=String,state=String"

Done!

geo-shell> layer schema --name points2

Name Type

the_geom Point name String state String

Add Area Field

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

geo-shell> **layer addareafield** --input-name states --output-workspace mem --output-name states_area --area-fieldname AREA

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

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

geo-shell> **workspace open** --name naturalearth --params examples/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 addareafield** --input-name states --output-workspace mem --output-name states_area --area-fieldname AREA Done!

geo-shell> layer schema --name states_area

Name Type

the_geom MultiPolygon

FID_1 Integer

ScaleRank Integer

FeatureCla String

OBJECTID Integer

VertexCou Double

ISO String

NAME_0 String

NAME_1 String

VARNAME_1 String

NL_NAME_1 String

HASC_1 String

TYPE_1 String

ENGTYPE_1 String

VALIDFR_1 String

VALIDTO_1 String

REMARKS_1 String

Region String

RegionVar String

ProvNumber Integer

NEV_Countr String

FIRST_FIPS String

FIRST_HASC String

FIPS_1 String

gadm_level Double

CheckMe Integer

Region_Cod String

Region_C_1 String

ScaleRan_1 Integer

Region_C_2 String

Region_C_3 String

Country_Pr String

AREA Double

geo-shell> **layer features** --name states_area --filter "NAME_1='North Dakota'" --field "NAME_0,AREA"

Feature (fid—6cd800bb_17060b938ca_-7889)

NAME_0 = United States

AREA = 21.804544852979944

Add ID Field

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

geo-shell> **layer addidfield** --input-name places --output-workspace mem --output-name places_id --id-fieldname ID --start-value 1

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

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

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

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

geo-shell> **layer addidfield** --input-name places --output-workspace mem --output-name places_id --id-fieldname ID --start-value 1

Done!

geo-shell> layer schema --name places_id

Name Type

the_geom Point

SCALERANK Integer

NATSCALE Integer

LABELRANK Integer

FEATURECLA String

NAME String

NAMEPAR String

NAMEALT String

DIFFASCII Integer

NAMEASCII String

ADM0CAP Double

CAPALT Double

CAPIN String

WORLDCITY Double

MEGACITY Integer

SOVONAME String

SOV_A3 String

ADMONAME String

ADM0_A3 String

ADM1NAME String

ISO_A2 String

NOTE String

LATITUDE Double

LONGITUDE Double

CHANGED Double

NAMEDIFF Integer

DIFFNOTE String

POP_MAX Integer

POP_MIN Integer

POP_OTHER Integer

GEONAMEID Double

MEGANAME String

LS_NAME String

LS_MATCH Integer

CHECKME Integer

MAX_POP10 Integer

MAX_POP20 Integer

MAX_POP50 Integer

MAX_POP300 Integer

MAX_POP310 Integer

MAX_NATSCA Integer

MIN_AREAKM Integer

MAX AREAKM Double

MIN_AREAMI Double

MAX AREAMI Double

MIN_PERKM Double

MAX PERKM Double

MIN_PERMI Double

MAX PERMI Double

MIN_BBXMIN Double

MAX_BBXMIN Double

MIN_BBXMAX Double

MAX_BBXMAX Double

MIN_BBYMIN Double

MAX_BBYMIN Double

MIN_BBYMAX Double

MAX_BBYMAX Double

MEAN_BBXC Double

MEAN_BBYC Double

COMPARE Integer

GN_ASCII String

FEATURE_CL String

FEATURE_CO String

ADMIN1_COD Double

GN_POP Integer

ELEVATION Double

GTOPO30 Double

TIMEZONE String

GEONAMESNO String

UN_FID Integer

UN_ADM0 String

UN_LAT Double

UN_LONG Double POP1950 Double POP1955 Double POP1960 Double POP1965 Double POP1970 Double POP1975 Double POP1980 Double POP1985 Double POP1990 Double POP1995 Double POP2000 Double POP2005 Double POP2010 Double POP2015 Double POP2020 Double POP2025 Double POP2050 Double **CITYALT String** popDiff Integer popPerc Double ls_gross Integer **ID** Integer

geo-shell> layer features --name places_id --filter "NAME='Seattle'" --field "NAME,ID"

Feature (fid—6cd800bb_17060b938ca_-79ce)

NAME = Seattle

ID = 10

Add XY Fields

Add x and y coordinate Fields to the input Layer and save the result to the output Layer

geo-shell> **layer addxyfields** --input-name places --output-workspace mem --output-name places_xy --x-fieldname X --y-fieldname Y

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

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

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

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

geo-shell> **layer addxyfields** --input-name places --output-workspace mem --output-name places_xy --x-fieldname X --y-fieldname Y Done!

geo-shell> layer schema --name places_xy

Name Type

the_geom Point

SCALERANK Integer

NATSCALE Integer

LABELRANK Integer

FEATURECLA String

NAME String

NAMEPAR String

NAMEALT String

DIFFASCII Integer

NAMEASCII String

ADM0CAP Double

CAPALT Double

CAPIN String

WORLDCITY Double

MEGACITY Integer

SOVONAME String

SOV_A3 String

ADMONAME String

ADM0_A3 String

ADM1NAME String

ISO_A2 String

NOTE String

LATITUDE Double

LONGITUDE Double

CHANGED Double

NAMEDIFF Integer

DIFFNOTE String

POP_MAX Integer

POP_MIN Integer

POP_OTHER Integer

GEONAMEID Double

MEGANAME String

LS_NAME String

LS_MATCH Integer

CHECKME Integer

MAX_POP10 Integer

MAX_POP20 Integer

MAX_POP50 Integer

MAX_POP300 Integer

MAX_POP310 Integer

MAX_NATSCA Integer

MIN_AREAKM Integer

MAX_AREAKM Double

MIN_AREAMI Double

MAX_AREAMI Double

MIN_PERKM Double

MAX_PERKM Double

MIN_PERMI Double

MAX_PERMI Double

MIN BBXMIN Double

MAX BBXMIN Double

MIN BBXMAX Double

MAX_BBXMAX Double

MIN BBYMIN Double

MAX_BBYMIN Double

MIN BBYMAX Double

MAX BBYMAX Double

MEAN BBXC Double

MEAN_BBYC Double

COMPARE Integer

GN_ASCII String

FEATURE_CL String

FEATURE_CO String

ADMIN1_COD Double

GN_POP Integer

ELEVATION Double

GTOPO30 Double

TIMEZONE String

GEONAMESNO String

UN_FID Integer

UN_ADM0 String

UN LAT Double

UN LONG Double

POP1950 Double

POP1955 Double

POP1960 Double

POP1965 Double

POP1970 Double

POP1975 Double

POP1980 Double

POP1985 Double

POP1990 Double

POP1995 Double

POP2000 Double

POP2005 Double

POP2010 Double

POP2015 Double

POP2020 Double

1 O1 2020 Double

POP2025 Double

POP2050 Double

CITYALT String

popDiff Integer

popPerc Double

ls_gross Integer

X Double

Y Double

geo-shell> layer features --name places_xy --filter "NAME='Seattle'" --field "NAME,X,Y"

Feature (fid—6cd800bb_17060b938ca_-6084)

NAME = Seattle

X = -122.34193084586849

Y = 47.57194791253073

Validity

Check for invalid geometries in the Layer.

geo-shell> layer validity --name areas

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Layer name	true		
fields	A comma delimited list of Fields to include	false		

geo-shell> **workspace open** --name areas --params src/test/resources/invalid.properties Workspace areas opened!

geo-shell> **layer open** --workspace areas --layer invalid --name areas Opened Workspace areas Layer invalid as areas

geo-shell> **layer validity** --name areas

Values Reason

invalid.1360815594529 Self-intersection

Geoprocessing

Clip

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

geo-shell> layer clip --input-name a --clip-name b --output-workspace results --output-name results

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		

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

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

geo-shell> **layer open** --workspace layers --layer a --name a Opened Workspace layers Layer a as a

geo-shell> **layer open** --workspace layers --layer b --name b Opened Workspace layers Layer b as b

geo-shell> **layer clip** --input-name a --clip-name b --output-workspace results --output-name results Done clipping a to b to create results!

geo-shell> **style vector default** --layer a --color red --opacity 0.75 --file examples/red.sld Default Vector Style for a written to /home/travis/build/jericks/geo-shell/examples/red.sld!

geo-shell> **style vector default** --layer b --color green --opacity 0.75 --file examples/green.sld Default Vector Style for b written to /home/travis/build/jericks/geo-shell/examples/green.sld!

geo-shell> **style vector default** --layer results --color blue --opacity 0.75 --file examples/blue.sld Default Vector Style for results written to /home/travis/build/jericks/geo-shell/examples/blue.sld!

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

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

geo-shell> layer style set --name results --style examples/blue.sld

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

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

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

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

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

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

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



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.

geo-shell> **layer coordinates** --input-name states --output-workspace layers --output-name coordinates

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 states --name states Opened Workspace naturalearth Layer states as states

geo-shell> **layer coordinates** --input-name states --output-workspace layers --output-name coordinates

Done!

geo-shell> style vector default --layer coordinates --color #1E90FF --opacity 0.75 --file

examples/coordinates.sld

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

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

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 coordinates Added coordinates layer to map map

geo-shell> **map draw** --name map --file examples/layer_coordinates.png --bounds "-180,-8.233,-36.738,73.378"

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

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



Delaunay

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

geo-shell> layer delaunay --input-name places --output-workspace layers --output-name delaunay

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 places --name places Opened Workspace naturalearth Layer places as places

geo-shell> **layer delaunay** --input-name places --output-workspace layers --output-name delaunay Done!

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

Default Vector Style for delaunay written to /home/travis/build/jericks/geo-

shell/examples/delaunay.sld!

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

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

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 delaunay Added delaunay layer to map map

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

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



Densify

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

geo-shell> **layer densify** --input-name states --output-workspace layers --output-name states_densified --distance 0.1

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		

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 states --name states Opened Workspace naturalearth Layer states as states

geo-shell> **layer densify** --input-name states --output-workspace layers --output-name states_densified --distance 0.1

Done!

geo-shell> **layer coordinates** --input-name states_densified --output-workspace layers --output -name coordinates

Done!

geo-shell> **style vector default** --layer coordinates --color #1E90FF --opacity 0.75 --file examples/coordinates.sld

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

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

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

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

Done drawing /home/travis/build/jericks/geo-shell/examples/layer_densify.png! geo-shell> **map draw** --name map --file examples/layer_densify.png --bounds "-180,-8.233,-36.738,73.378"

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



Dissolve

Dissolve the Features of a Layer by a Field.

geo-shell> **layer dissolve** --input-name states --output-workspace layers --output-name regions --field SUB_REGION

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

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

geo-shell> **workspace open** --name shapefiles --params examples/states/states.shp Workspace shapefiles opened!

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

geo-shell> **layer dissolve** --input-name states --output-workspace layers --output-name regions --field SUB_REGION

Done dissolving states to regions by SUB_REGION!

geo-shell> **style vector uniquevalues** --layer regions --field SUB_REGION --colors MutedTerrain --file [silver] examples/regions.sld

Unique Values Vector Style for regions's SUB_REGION Field written to /home/travis/build/jericks/geo-shell/examples/regions.sld!

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

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

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

Done drawing /home/travis/build/jericks/geo-shell/examples/layer_dissolve.png! geo-shell> **map draw** --name map --file examples/layer_dissolve.png --bounds "-180,-8.233,-36.738,73.378"

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



Erase

Erase one Layer from another Layer

geo-shell> **layer erase** --input-name a --other-name b --output-workspace results --output-name results

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		

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

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

geo-shell> **layer open** --workspace layers --layer a --name a Opened Workspace layers Layer a as a

geo-shell> **layer open** --workspace layers --layer b --name b Opened Workspace layers Layer b as b geo-shell> **layer erase** --input-name a --other-name b --output-workspace results --output-name results

Done erasing a from b to create results!

geo-shell> **style vector default** --layer a --color red --opacity 0.75 --file examples/red.sld Default Vector Style for a written to /home/travis/build/jericks/geo-shell/examples/red.sld!

geo-shell> **style vector default** --layer b --color green --opacity 0.75 --file examples/green.sld Default Vector Style for b written to /home/travis/build/jericks/geo-shell/examples/green.sld!

geo-shell> **style vector default** --layer results --color blue --opacity 0.75 --file examples/blue.sld Default Vector Style for results written to /home/travis/build/jericks/geo-shell/examples/blue.sld!

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

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

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

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

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

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

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

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



Grid Row / Column

Create a grid Layer with rows and columns

geo-shell> **layer grid rowcol** --output-workspace layers --output-name rowcol --geometry -180, -90,180,90 --rows 10 --columns 8

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

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

geo-shell> **layer grid rowcol** --output-workspace layers --output-name rowcol --geometry -180, -90,180,90 --rows 10 --columns 8 Done!

geo-shell> **style vector default** --layer rowcol --color #1E90FF --opacity 0.30 --file examples/rowcol.sld

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

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

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 rowcol Added rowcol layer to map map

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



Grid Width / Height

Create a grid Layer with cell width and height

geo-shell> **layer grid widthheight** --output-workspace layers --output-name widthheight --geometry -180,-90,180,90 --cell-width 8 --cell-height 7

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

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

geo-shell> **layer grid widthheight** --output-workspace layers --output-name widthheight --geometry -180,-90,180,90 --cell-width 8 --cell-height 7 Done!

geo-shell> **style vector default** --layer widthheight --color #1E90FF --opacity 0.30 --file examples/widthheight.sld

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

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

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 widthheight Added widthheight layer to map map

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



Identity

Calculate the intersection between a Layer with another Layer

geo-shell> **layer identity** --input-name a --other-name b --output-workspace results --output-name results

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

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

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

geo-shell> **layer open** --workspace layers --layer a --name a Opened Workspace layers Layer a as a

geo-shell> **layer open** --workspace layers --layer b --name b Opened Workspace layers Layer b as b

geo-shell> **layer identity** --input-name a --other-name b --output-workspace results --output-name results

Done calculating the identity between a and b to create results!

geo-shell> **style vector default** --layer a --color red --opacity 0.75 --file examples/red.sld Default Vector Style for a written to /home/travis/build/jericks/geo-shell/examples/red.sld!

geo-shell> **style vector default** --layer b --color green --opacity 0.75 --file examples/green.sld Default Vector Style for b written to /home/travis/build/jericks/geo-shell/examples/green.sld!

geo-shell> **style vector default** --layer results --color blue --opacity 0.75 --file examples/blue.sld Default Vector Style for results written to /home/travis/build/jericks/geo-shell/examples/blue.sld!

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

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

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

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

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

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

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

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



Intersection

Calculate the intersection between a Layer with another Layer

geo-shell> **layer intersection** --input-name a --other-name b --output-workspace results --output -name results

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

 $geo\text{-shell} > \textbf{workspace open --} name\ layers\ -- params\ src/test/resources/layeralgebra.gpkg\ Workspace\ layers\ opened!$

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

geo-shell> **layer open** --workspace layers --layer a --name a Opened Workspace layers Layer a as a

geo-shell> **layer open** --workspace layers --layer b --name b Opened Workspace layers Layer b as b

geo-shell> **layer intersection** --input-name a --other-name b --output-workspace results --output -name results

Done calculating the intersection between a and b to create results!

geo-shell> **style vector default** --layer a --color red --opacity 0.75 --file examples/red.sld Default Vector Style for a written to /home/travis/build/jericks/geo-shell/examples/red.sld!

geo-shell> **style vector default** --layer b --color green --opacity 0.75 --file examples/green.sld Default Vector Style for b written to /home/travis/build/jericks/geo-shell/examples/green.sld!

geo-shell> **style vector default** --layer results --color blue --opacity 0.75 --file examples/blue.sld Default Vector Style for results written to /home/travis/build/jericks/geo-shell/examples/blue.sld!

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

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

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

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

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

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

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

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



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!

 $\begin{tabular}{lll} $\tt geo-shell> & {\bf style} & {\bf vector} & {\bf default} & --layer & mincircle & --color & \#1E90FF & --opacity & 0.25 & --file \\ examples/mincircle.sld & & & & & & & & & \\ \hline \end{tabular}$

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!



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!



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!



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!



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

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

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!



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

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

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!



Points Along Lines

Create points along lines

geo-shell> layer points along lines --input-name mississippi --output-workspace layers --output-name points --distance 2.0

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		

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

geo-shell> **workspace open** --name rivers --params src/test/resources/rivers/ne_110m_rivers_lake_centerlines.shp
Workspace rivers opened!

geo-shell> **layer open** --workspace rivers --layer ne_110m_rivers_lake_centerlines --name rivers Opened Workspace rivers Layer ne_110m_rivers_lake_centerlines as rivers

geo-shell> layer copy --input-name rivers --output-workspace layers --output-name mississippi #

[gray]--filter# "name='Mississippi'''
Done!

geo-shell> **style vector default** --layer mississippi --color blue --file examples/river.sld

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

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

geo-shell> layer points along lines --input-name mississippi --output-workspace layers --output -name points --distance 2.0

Done placing points along mississippi every 2.0 to create points!

geo-shell> **style vector default** --layer points --color green --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 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 mississippi Added mississippi 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_points_along_lines.png --bounds "-180,-

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



Simplify

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

geo-shell> **layer simplify** --input-name mississippi --output-workspace layers --output-name simplified --distance 1.0

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		

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

geo-shell> **workspace open** --name rivers --params src/test/resources/rivers/ne_110m_rivers_lake_centerlines.shp
Workspace rivers opened!

geo-shell> **layer open** --workspace rivers --layer ne_110m_rivers_lake_centerlines --name rivers Opened Workspace rivers Layer ne_110m_rivers_lake_centerlines as rivers

geo-shell> **layer copy** --input-name rivers --output-workspace layers --output-name mississippi # [gray]--filter# "name='Mississippi'"

Done!

geo-shell> **layer simplify** --input-name mississippi --output-workspace layers --output-name simplified --distance 1.0 Done!

geo-shell> **style vector default** --layer simplified --color blue --file examples/river.sld Default Vector Style for simplified written to /home/travis/build/jericks/geo-shell/examples/river.sld!

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

geo-shell> **layer coordinates** --input-name simplified --output-workspace layers --output-name points

Done!

geo-shell> **style vector default** --layer points --color green --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 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 simplified Added simplified 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_simplify.png --bounds "-180,-8.233,-36.738,73.378"

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

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



Symmetric Difference

Calculate the symmetric difference between a Layer and another Layer.

geo-shell> **layer symdifference** --input-name a --other-name b --output-workspace results --output -name results

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

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

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

geo-shell> **layer open** --workspace layers --layer a --name a Opened Workspace layers Layer a as a

geo-shell> **layer open** --workspace layers --layer b --name b Opened Workspace layers Layer b as b

geo-shell> **layer symdifference** --input-name a --other-name b --output-workspace results --output -name results

Done calculating the symmetric difference between a and b to create results!

geo-shell> **style vector default** --layer a --color red --opacity 0.75 --file examples/red.sld Default Vector Style for a written to /home/travis/build/jericks/geo-shell/examples/red.sld!

geo-shell> **style vector default** --layer b --color green --opacity 0.75 --file examples/green.sld Default Vector Style for b written to /home/travis/build/jericks/geo-shell/examples/green.sld!

geo-shell> **style vector default** --layer results --color blue --opacity 0.75 --file examples/blue.sld Default Vector Style for results written to /home/travis/build/jericks/geo-shell/examples/blue.sld!

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

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

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

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

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

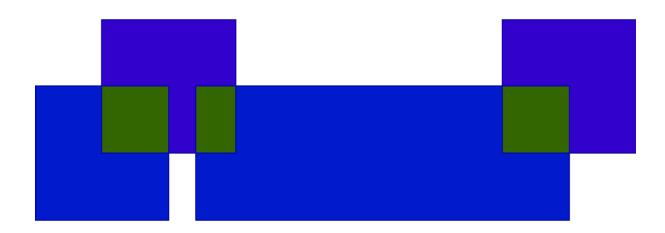
Added a layer to map map

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

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

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

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



Transform

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

geo-shell> layer transform --input-name points --output-workspace layers --output-name polys --transforms "the_geom=buffer(the_geom, 5) | id=id*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		

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

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> **layer transform** --input-name points --output-workspace layers --output-name polys --transforms "the_geom=buffer(the_geom, 5)|id=id*10"

Done transforming points to polys with the_geom=buffer(the_geom, 5)|id=id*10!

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

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

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!

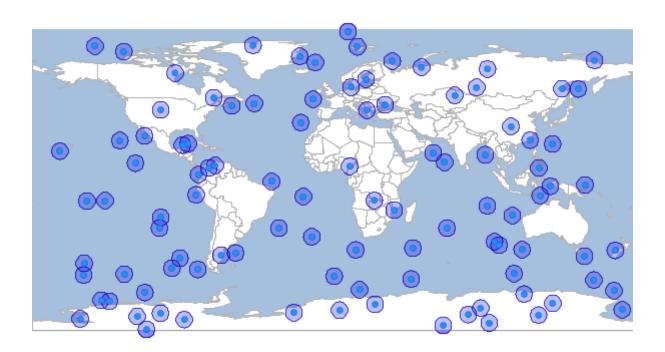
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

geo-shell> **map add layer** --name map --layer countries Added countries layer to map map geo-shell> **map add layer** --name map --layer polys Added polys 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_transform.png
Done drawing /home/travis/build/jericks/geo-shell/examples/layer_transform.png!

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



Union

Union a Layer with another Layer

geo-shell> **layer union** --input-name a --other-name b --output-workspace results --output-name results

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

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

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

geo-shell> **layer open** --workspace layers --layer a --name a Opened Workspace layers Layer a as a

geo-shell> **layer open** --workspace layers --layer b --name b Opened Workspace layers Layer b as b

geo-shell> **layer union** --input-name a --other-name b --output-workspace results --output-name results

Done unioning a and b to create results!

geo-shell> **style vector default** --layer a --color red --opacity 0.75 --file examples/red.sld Default Vector Style for a written to /home/travis/build/jericks/geo-shell/examples/red.sld!

geo-shell> **style vector default** --layer b --color green --opacity 0.75 --file examples/green.sld Default Vector Style for b written to /home/travis/build/jericks/geo-shell/examples/green.sld!

geo-shell> **style vector default** --layer results --color blue --opacity 0.75 --file examples/blue.sld Default Vector Style for results written to /home/travis/build/jericks/geo-shell/examples/blue.sld!

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

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

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

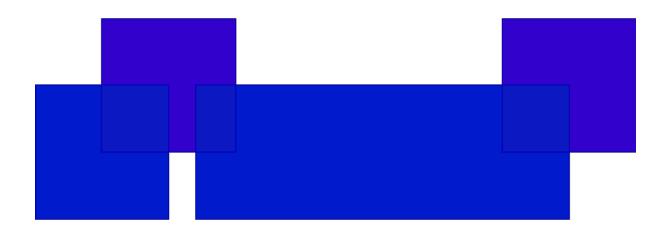
geo-shell> **map open** --name map Map map opened!

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

geo-shell> **map add layer** --name map --layer b Added b layer to map map geo-shell> **map add layer** --name map --layer results Added results layer to map map

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

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



Update

Calculate the update between a Layer with another Layer

geo-shell> **layer update** --input-name a --other-name b --output-workspace results --output-name results

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		

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

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

geo-shell> **layer open** --workspace layers --layer a --name a Opened Workspace layers Layer a as a

geo-shell> **layer open** --workspace layers --layer b --name b Opened Workspace layers Layer b as b

geo-shell> **layer update** --input-name a --other-name b --output-workspace results --output-name results

Done calculating the update between a and b to create results!

geo-shell> **style vector default** --layer a --color red --opacity 0.75 --file examples/red.sld Default Vector Style for a written to /home/travis/build/jericks/geo-shell/examples/red.sld!

geo-shell> **style vector default** --layer b --color green --opacity 0.75 --file examples/green.sld Default Vector Style for b written to /home/travis/build/jericks/geo-shell/examples/green.sld!

geo-shell> **style vector default** --layer results --color blue --opacity 0.75 --file examples/blue.sld Default Vector Style for results written to /home/travis/build/jericks/geo-shell/examples/blue.sld!

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

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

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

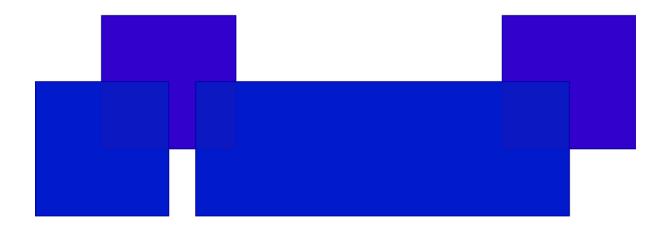
geo-shell> **map open** --name map Map map opened!

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

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

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

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



Voronoi

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

geo-shell> layer voronoi --input-name places --output-workspace layers --output-name voronoi

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 places --name places Opened Workspace naturalearth Layer places as places

geo-shell> **layer voronoi** --input-name places --output-workspace layers --output-name voronoi Done!

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

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

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

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 voronoi Added voronoi layer to map map

Done drawing /home/travis/build/jericks/geo-shell/examples/layer_voronoi.png! geo-shell> **map draw** --name map --file examples/layer_voronoi.png --bounds -180,-90,180,90

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



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!

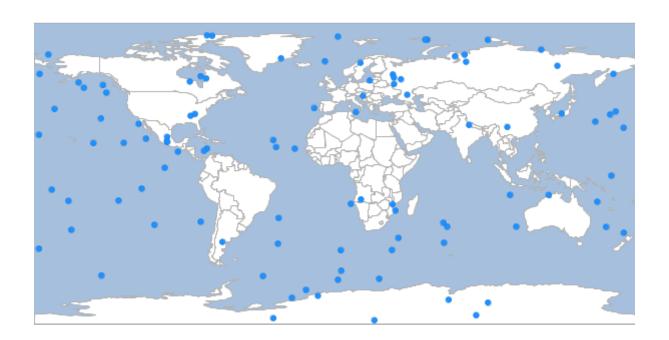
geo-shell> **map add layer** --name randomMap --layer ocean Added ocean layer to map randomMap

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



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!

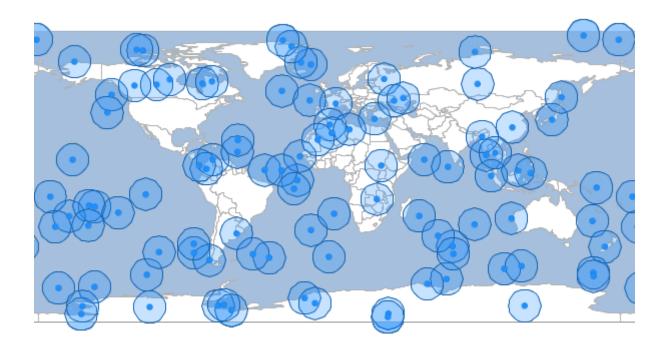
geo-shell> **map add layer** --name map --layer ocean Added ocean layer to map map

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!



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!



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!



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!

