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Raster

Open

Open a Raster.

geo-shell> raster open --format earth --raster earth --name earth

Name	Description	Mandatory	Specified Default	Unspecified Default
format	The Format name	true		
raster	The Raster name	true		
name	The name	false		

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> **raster open** --format earth --raster earth --name earth Opened Format earth Raster earth as earth

geo-shell> **raster close** --name earth Raster earth closed!

geo-shell> **format close** --name earth Format earth closed!

Close

Close a Raster.

geo-shell> raster close --name earth

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

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> **raster open** --format earth --raster earth --name earth Opened Format earth Raster earth as earth

geo-shell> **raster close** --name earth Raster earth closed!

geo-shell> **format close** --name earth Format earth closed!

List

List open Rasters.

geo-shell> raster list



No parameters

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> **raster open** --format earth --raster earth --name earth Opened Format earth Raster earth as earth

geo-shell> raster list
earth = GeoTIFF

geo-shell> **raster close** --name earth Raster earth closed!

geo-shell> **format close** --name earth Format earth closed!

Info

Get information about a Raster.

geo-shell> **raster info** --name earth

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

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> **raster open** --format earth --raster earth --name earth Opened Format earth Raster earth as earth

geo-shell> raster info --name earth

Format: GeoTIFF Size: 800, 400

Projection ID: EPSG:4326

Projection WKT: GEOGCS["WGS 84", DATUM["World Geodetic System 1984",

SPHEROID["WGS 84", 6378137.0, 298.257223563, AUTHORITY["EPSG","7030"]],

AUTHORITY["EPSG","6326"]],

PRIMEM["Greenwich", 0.0, AUTHORITY["EPSG","8901"]],

UNIT["degree", 0.017453292519943295],

AXIS["Geodetic longitude", EAST], AXIS["Geodetic latitude", NORTH],

AUTHORITY["EPSG","4326"]]

Extent: -179.999999999997, -89.9999999998205, 179.9999999996405, 90.0

Pixel Size: 0.4499999999995505, 0.44999999999551

Block Size: 800, 8

Bands: RED_BAND

Min Value: 56.0 Max Value: 255.0

GREEN_BAND

Min Value: 84.0 Max Value: 255.0

BLUE_BAND

Min Value: 91.0 Max Value: 255.0

geo-shell> raster close --name earth

Raster earth closed!

geo-shell> format close --name earth

Format earth closed!

Value

Get a value from the Raster.

geo-shell> raster value --name earth --x 60 --y 45

geo-shell> raster value --name earth --x 10 --y 15 --type pixel

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
band	The x coordinate	false	0	0
X	The x coordinate	true		
у	The y coordinate	true		
type	The y coordinate	false	geometry	geometry

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> **raster open** --format earth --raster earth --name earth Opened Format earth Raster earth as earth

geo-shell> **raster value** --name earth --x 60 --y 45 235.0

geo-shell> **raster value** --name earth --x 10 --y 15 --type pixel 109.0

geo-shell> **raster close** --name earth Raster earth closed!

geo-shell> **format close** --name earth Format earth closed!

Envelope

Create a Vector Layer from the envelope of a Raster.

geo-shell> raster envelope --name earth --output-workspace layers --output-name outline

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

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> **raster open** --format earth --raster earth --name earth Opened Format earth Raster earth as earth

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

geo-shell> **raster envelope** --name earth --output-workspace layers --output-name outline Done creating envelope in outline from earth!

geo-shell> **style create** --params "stroke=black stroke-width=3" --file examples/outline.sld Style stroke=black stroke-width=3 written to /home/runner/work/geo-shell/geo-shell/examples/outline.sld!

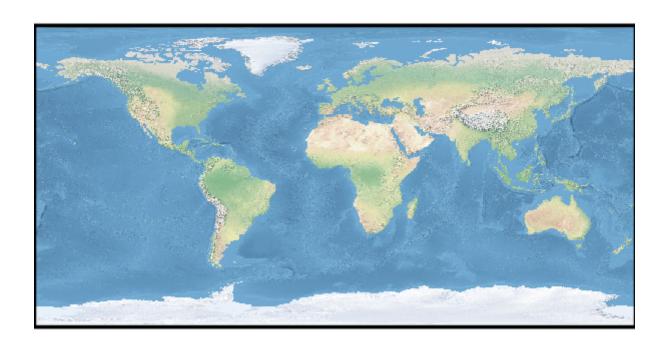
geo-shell> **layer style set** --name outline --style examples/outline.sld Style /home/runner/work/geo-shell/geo-shell/examples/outline.sld set on outline

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

geo-shell> **map add raster** --name map --raster earth Added earth layer to map map

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

geo-shell> **map draw** --name map --file examples/raster_envelope.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_envelope.png!



Get Style

Get the Raster's style.

geo-shell> raster style get --name pc --style examples/pc_style.sld

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

geo-shell> **format open** --name pierce_county --input src/test/resources/pc.tif Format pierce_county opened!

geo-shell> **raster open** --format pierce_county --raster pc --name pc Opened Format pierce_county Raster pc as pc

geo-shell> style colormap --values raster --raster рс "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/style_raster_colormap.sld Colormap Raster Style /home/runner/work/geo-shell/geofor рс written to shell/examples/style_raster_colormap.sld!

geo-shell> **raster style set** --name pc --style examples/style_raster_colormap.sld
Style /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld set on pc

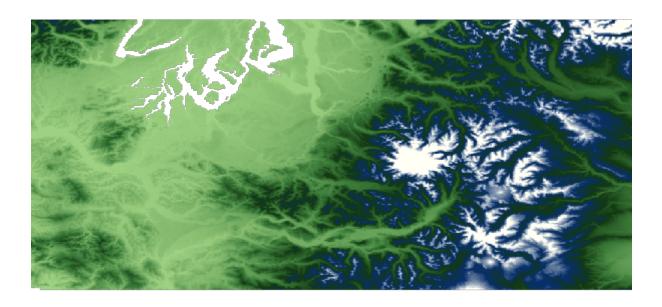
geo-shell> **map open** --name map Map map opened!

geo-shell> **map add raster** --name map --raster pc Added pc layer to map map

geo-shell> **map draw** --name map --file examples/raster_style_get.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_style_get.png!

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

geo-shell> **raster style get** --name pc --style examples/pc_style.sld pc style written to /home/runner/work/geo-shell/geo-shell/examples/pc_style.sld



Set Style

Set a Raster's style

geo-shell> raster style set --name pc --style examples/style_raster_colormap.sld

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

geo-shell> **format open** --name pierce_county --input src/test/resources/pc.tif Format pierce_county opened!

geo-shell> **raster open** --format pierce_county --raster pc --name pc Opened Format pierce_county Raster pc as pc

geo-shell> style colormap --values raster --raster рс "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/style_raster_colormap.sld Colormap Raster Style рс written to /home/runner/work/geo-shell/geoshell/examples/style_raster_colormap.sld!

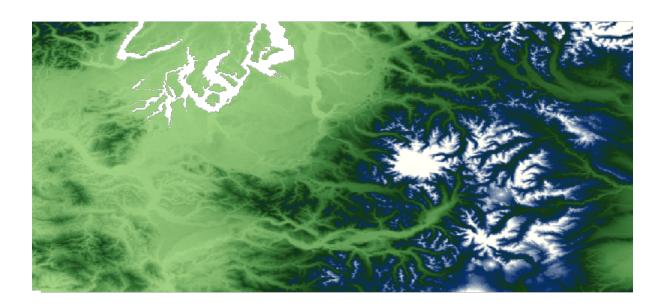
geo-shell> **raster style set** --name pc --style examples/style_raster_colormap.sld
Style /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld set on pc

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

geo-shell> **map add raster** --name map --raster pc Added pc layer to map map

geo-shell> **map draw** --name map --file examples/raster_style_set.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_style_set.png!

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



Add Raster

Add two Rasters together

geo-shell> raster add raster --name1 high --name2 low --output-format add --output-name add

Name	Description	Mandatory	Specified Default	Unspecified Default
name1	The Raster name	true		
name2	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		

geo-shell> **format open** --name high --input src/test/resources/high.tif Format high opened!

geo-shell> **raster open** --format high --raster high --name high Opened Format high Raster high as high

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

geo-shell> **style create** --params "stroke=black stroke-width=2 label=value label-size=12" --file examples/grid.sld

Style stroke=black stroke-width=2 label=value label-size=12 written to /home/runner/work/geo-shell/geo-shell/examples/grid.sld!

geo-shell> **raster polygon** --name high --output-workspace layers --output-name high_polygons Done converting Raster high to a Polygon Layer high_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/high.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/high.sld!

geo-shell> **raster style set** --name high --style examples/high.sld Style /home/runner/work/geo-shell/geo-shell/examples/high.sld set on high

geo-shell> **layer style set** --name high_polygons --style examples/grid.sld
Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on high_polygons

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

geo-shell> **map add raster** --name mapHigh --raster high Added high layer to map mapHigh

geo-shell> **map add layer** --name mapHigh --layer high_polygons Added high_polygons layer to map mapHigh

geo-shell> **map draw** --name mapHigh --file examples/raster_add_raster_high.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_add_raster_high.png!

geo-shell> map close --name mapHigh

17.0	18.0	19.0	20.0
13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0

geo-shell> **format open** --name low --input src/test/resources/low.tif Format low opened!

geo-shell> **raster open** --format low --raster low --name low Opened Format low Raster low as low

geo-shell> **raster polygon** --name low --output-workspace layers --output-name low_polygons Done converting Raster low to a Polygon Layer low_polygons!

geo-shell> $style\ raster\ palette\ colormap\ --min\ 1\ --max\ 50\ --palette\ MutedTerrain\ --number\ 20\ --file\ examples/low.sld$

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/low.sld!

geo-shell> **raster style set** --name low --style examples/low.sld Style /home/runner/work/geo-shell/geo-shell/examples/low.sld set on low

geo-shell> **layer style set** --name low_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on low_polygons

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

geo-shell> **map add raster** --name mapLow --raster low Added low layer to map mapLow

geo-shell> **map add layer** --name mapLow --layer low_polygons Added low polygons layer to map mapLow

geo-shell> **map draw** --name mapLow --file examples/raster_add_raster_low.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_add_raster_low.png!

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

13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0
1.0	2.0	3.0	4.0

geo-shell> **format open** --name add --input examples/add.tif Format add opened!

geo-shell> **raster add raster** --name1 high --name2 low --output-format add --output-name add Added high to low to create add!

geo-shell> **raster polygon** --name add --output-workspace layers --output-name add_polygons Done converting Raster add to a Polygon Layer add_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/add.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/add.sld!

geo-shell> **raster style set** --name add --style examples/add.sld Style /home/runner/work/geo-shell/geo-shell/examples/add.sld set on add

geo-shell> **layer style set** --name add_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on add_polygons

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

geo-shell> map add raster --name mapAdd --raster add

Added add layer to map mapAdd

geo-shell> **map add layer** --name mapAdd --layer add_polygons Added add_polygons layer to map mapAdd

geo-shell> **map draw** --name mapAdd --file examples/raster_add_raster_add.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_add_raster_add.png!

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

30.0	32.0	34.0	36.0
22.0	24.0	26.0	28.0
14.0	16.0	18.0	20.0
6.0	8.0	10.0	12.0

Add Constant

Add constant values to a Raster

geo-shell> **raster add constant** --name pc --output-format pcAdd100 --output-name pcAdd100 --values 100

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
values	The values	true		

geo-shell> **format open** --name pierce_county --input src/test/resources/pc.tif Format pierce_county opened!

geo-shell> **raster open** --format pierce_county --raster pc --name pc Opened Format pierce_county Raster pc as pc

geo-shell> **raster value** --name pc --x -121.799927 --y 46.867703 3069.0

geo-shell> **format open** --name pcAdd100 --input examples/pcAdd100.tif Format pcAdd100 opened!

geo-shell> **raster add constant** --name pc --output-format pcAdd100 --output-name pcAdd100 --values 100

Added 100 to pc to create pcAdd100!

geo-shell> **raster value** --name pcAdd100 --x -121.799927 --y 46.867703 3169.0

geo-shell> **style raster colormap** --raster pcAdd100 --values "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/style_raster_colormap.sld

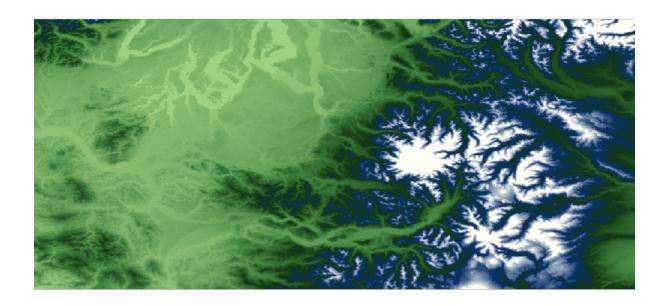
Colormap Raster Style for pcAdd100 written to /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld!

geo-shell> **raster style set** --name pcAdd100 --style examples/style_raster_colormap.sld
Style /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld set on pcAdd100

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

geo-shell> **map add raster** --name map --raster pcAdd100 Added pcAdd100 layer to map map

geo-shell> **map draw** --name map --file examples/raster_add_constant.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_add_constant.png!



Subtract Raster

Subtract one Raster from another

geo-shell> **raster subtract raster** --name1 high --name2 low --output-format subtract --output-name subtract

Name	Description	Mandatory	Specified Default	Unspecified Default
name1	The Raster name	true		
name2	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		

geo-shell> **format open** --name high --input src/test/resources/high.tif Format high opened!

geo-shell> **raster open** --format high --raster high --name high Opened Format high Raster high as high

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

geo-shell> **style create** --params "stroke=black stroke-width=2 label=value label-size=12" --file examples/grid.sld

Style stroke=black stroke-width=2 label=value label-size=12 written to /home/runner/work/geo-

shell/geo-shell/examples/grid.sld!

geo-shell> **raster polygon** --name high --output-workspace layers --output-name high_polygons Done converting Raster high to a Polygon Layer high_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/high.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/high.sld!

geo-shell> **raster style set** --name high --style examples/high.sld Style /home/runner/work/geo-shell/geo-shell/examples/high.sld set on high

geo-shell> **layer style set** --name high_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on high_polygons

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

geo-shell> **map add raster** --name mapHigh --raster high Added high layer to map mapHigh

geo-shell> **map add layer** --name mapHigh --layer high_polygons Added high_polygons layer to map mapHigh

geo-shell> **map draw** --name mapHigh --file examples/raster_subtract_raster_high.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_subtract_raster_high.png!

17.0	18.0	19.0	20.0
13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0

geo-shell> **format open** --name low --input src/test/resources/low.tif Format low opened!

geo-shell> **raster open** --format low --raster low --name low Opened Format low Raster low as low

geo-shell> **raster polygon** --name low --output-workspace layers --output-name low_polygons Done converting Raster low to a Polygon Layer low_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/low.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/low.sld!

geo-shell> **raster style set** --name low --style examples/low.sld Style /home/runner/work/geo-shell/geo-shell/examples/low.sld set on low

geo-shell> **layer style set** --name low_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on low_polygons

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

geo-shell> **map add raster** --name mapLow --raster low Added low layer to map mapLow

geo-shell> **map add layer** --name mapLow --layer low_polygons Added low_polygons layer to map mapLow

geo-shell> **map draw** --name mapLow --file examples/raster_subtract_raster_low.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_subtract_raster_low.png!

13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0
1.0	2.0	3.0	4.0

geo-shell> **format open** --name subtract --input examples/subtract.tif Format subtract opened!

geo-shell> **raster subtract raster** --name1 high --name2 low --output-format subtract --output-name subtract

Subtracted high from low to create subtract!

geo-shell> **raster polygon** --name subtract --output-workspace layers --output-name subtract_polygons

Done converting Raster subtract to a Polygon Layer subtract_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/subtract.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/subtract.sld!

geo-shell> **raster style set** --name subtract --style examples/subtract.sld Style /home/runner/work/geo-shell/geo-shell/examples/subtract.sld set on subtract

geo-shell> **layer style set** --name subtract_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on subtract_polygons

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

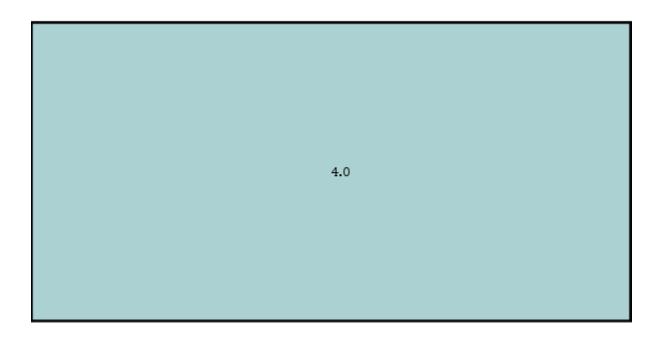
geo-shell> **map add raster** --name mapSubtract --raster subtract Added subtract layer to map mapSubtract

geo-shell> **map add layer** --name mapSubtract --layer subtract_polygons Added subtract_polygons layer to map mapSubtract

geo-shell> **map draw** --name mapSubtract --file examples/raster_subtract_raster_subtract.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_subtract_raster_subtract.png!

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



Subtract Constant

Subtract constant values from a Raster

geo-shell> **raster subtract constant** --name pc --output-format pcMinus100 --output-name pcMinus100 --values 100

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
values	The values	true		
from	Whether to subtract the Raster from the constant or vice verse	false	false	false

geo-shell> **format open** --name pierce_county --input src/test/resources/pc.tif Format pierce_county opened!

geo-shell> **raster open** --format pierce_county --raster pc --name pc Opened Format pierce_county Raster pc as pc

geo-shell> **raster value** --name pc --x -121.799927 --y 46.867703 3069.0

geo-shell> **format open** --name pcMinus100 --input examples/pcMinus100.tif Format pcMinus100 opened!

geo-shell> **raster subtract constant** --name pc --output-format pcMinus100 --output-name pcMinus100 --values 100
Subtracted 100 from pc to create pcMinus100!

Subtracted 100 from pc to create pellinus100:

geo-shell> **raster value** --name pcMinus100 --x -121.799927 --y 46.867703 2969.0

geo-shell> **style raster colormap** --raster pcMinus100 --values "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/style_raster_colormap.sld

Colormap Raster Style for pcMinus100 written to /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld!

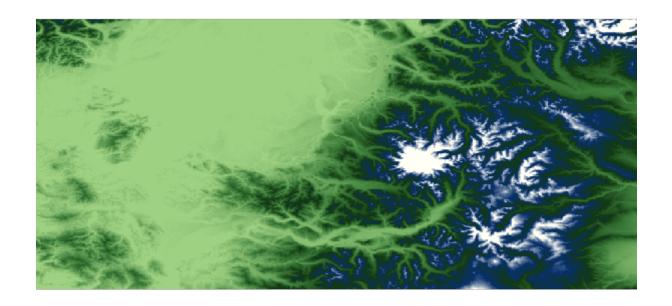
geo-shell> **raster style set** --name pcMinus100 --style examples/style_raster_colormap.sld
Style /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld set on pcMinus100

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

geo-shell> **map add raster** --name map --raster pcMinus100 Added pcMinus100 layer to map map

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

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_subtract_constant.png!



Multiply Raster

Multiply two Raster together

geo-shell> **raster multiply raster** --name1 high --name2 low --output-format multiply --output -name multiply

Name	Description	Mandatory	Specified Default	Unspecified Default
name1	The Raster name	true		
name2	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		

geo-shell> **format open** --name high --input src/test/resources/high.tif Format high opened!

geo-shell> **raster open** --format high --raster high --name high Opened Format high Raster high as high

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

geo-shell> **style create** --params "stroke=black stroke-width=2 label=value label-size=12" --file examples/grid.sld

Style stroke=black stroke-width=2 label=value label-size=12 written to /home/runner/work/geo-

shell/geo-shell/examples/grid.sld!

geo-shell> **raster polygon** --name high --output-workspace layers --output-name high_polygons Done converting Raster high to a Polygon Layer high_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/high.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/high.sld!

geo-shell> **raster style set** --name high --style examples/high.sld Style /home/runner/work/geo-shell/geo-shell/examples/high.sld set on high

geo-shell> **layer style set** --name high_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on high_polygons

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

geo-shell> **map add raster** --name mapHigh --raster high Added high layer to map mapHigh

geo-shell> **map add layer** --name mapHigh --layer high_polygons Added high_polygons layer to map mapHigh

geo-shell> **map draw** --name mapHigh --file examples/raster_multiply_raster_high.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_multiply_raster_high.png!

17.0	18.0	19.0	20.0
13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0

geo-shell> **format open** --name low --input src/test/resources/low.tif Format low opened!

geo-shell> **raster open** --format low --raster low --name low Opened Format low Raster low as low

geo-shell> **raster polygon** --name low --output-workspace layers --output-name low_polygons Done converting Raster low to a Polygon Layer low_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/low.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/low.sld!

geo-shell> **raster style set** --name low --style examples/low.sld Style /home/runner/work/geo-shell/geo-shell/examples/low.sld set on low

geo-shell> **layer style set** --name low_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on low_polygons

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

geo-shell> **map add raster** --name mapLow --raster low Added low layer to map mapLow

geo-shell> **map add layer** --name mapLow --layer low_polygons Added low_polygons layer to map mapLow

geo-shell> **map draw** --name mapLow --file examples/raster_multiply_raster_low.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_multiply_raster_low.png!

13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0
1.0	2.0	3.0	4.0

geo-shell> **format open** --name multiply --input examples/multiply.tif Format multiply opened!

geo-shell> **raster multiply raster** --name1 high --name2 low --output-format multiply --output -name multiply

Multiplied high and low to create multiply!

geo-shell> **raster polygon** --name multiply --output-workspace layers --output-name multiply_polygons

Done converting Raster multiply to a Polygon Layer multiply_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/multiply.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/multiply.sld!

geo-shell> **raster style set** --name multiply --style examples/multiply.sld Style /home/runner/work/geo-shell/geo-shell/examples/multiply.sld set on multiply

geo-shell> **layer style set** --name multiply_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on multiply_polygons

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

geo-shell> **map add raster** --name mapSubtract --raster multiply Added multiply layer to map mapSubtract

geo-shell> **map add layer** --name mapSubtract --layer multiply_polygons Added multiply_polygons layer to map mapSubtract

geo-shell> **map draw** --name mapSubtract --file examples/raster_multiply_raster_multiply.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-

 $shell/examples/raster_multiply_raster_multiply.png!$

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

221.0	252.0	285.0	320.0
117.0	140.0	165.0	192.0
45.0	60.0	77.0	96.0
5.0	12.0	21.0	32.0

Multiply Constant

Multiply constant values to a Raster

geo-shell> **raster multiply constant** --name pc --output-format pcTimes2 --output-name pcTimes2 --values 2

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
values	The values	true		

geo-shell> **format open** --name pierce_county --input src/test/resources/pc.tif Format pierce_county opened!

geo-shell> raster open --format pierce_county --raster pc --name pc

Opened Format pierce_county Raster pc as pc

geo-shell> **raster value** --name pc --x -121.799927 --y 46.867703 3069.0

geo-shell> **format open** --name pcTimes2 --input examples/pcTimes2.tif Format pcTimes2 opened!

geo-shell> **raster multiply constant** --name pc --output-format pcTimes2 --output-name pcTimes2 --values 2

Multiplied pc by 2 to create pcTimes2!

geo-shell> **raster value** --name pcTimes2 --x -121.799927 --y 46.867703 6138.0

geo-shell> **style raster colormap** --raster pcTimes2 --values "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/style_raster_colormap.sld

Colormap Raster Style for pcTimes2 written to /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld!

geo-shell> **raster style set** --name pcTimes2 --style examples/style_raster_colormap.sld
Style /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld set on pcTimes2

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

geo-shell> **map add raster** --name map --raster pcTimes2 Added pcTimes2 layer to map map

geo-shell> **map draw** --name map --file examples/raster_multiply_constant.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_multiply_constant.png!



Divide Raster

Divide one Raster by another Raster

geo-shell> **raster divide raster** --name1 high --name2 low --output-format divide --output-name divide

Name	Description	Mandatory	Specified Default	Unspecified Default
name1	The Raster name	true		
name2	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		

geo-shell> **format open** --name high --input src/test/resources/high.tif Format high opened!

geo-shell> **raster open** --format high --raster high --name high Opened Format high Raster high as high

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

geo-shell> **style create** --params "stroke=black stroke-width=2 label=value label-size=12" --file examples/grid.sld

Style stroke=black stroke-width=2 label=value label-size=12 written to /home/runner/work/geo-

shell/geo-shell/examples/grid.sld!

geo-shell> **raster polygon** --name high --output-workspace layers --output-name high_polygons Done converting Raster high to a Polygon Layer high_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/high.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/high.sld!

geo-shell> **raster style set** --name high --style examples/high.sld Style /home/runner/work/geo-shell/geo-shell/examples/high.sld set on high

geo-shell> **layer style set** --name high_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on high_polygons

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

geo-shell> **map add raster** --name mapHigh --raster high Added high layer to map mapHigh

geo-shell> **map add layer** --name mapHigh --layer high_polygons Added high_polygons layer to map mapHigh

geo-shell> **map draw** --name mapHigh --file examples/raster_divide_raster_high.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_divide_raster_high.png!

17.0	18.0	19.0	20.0
13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0

geo-shell> **format open** --name low --input src/test/resources/low.tif Format low opened!

geo-shell> **raster open** --format low --raster low --name low Opened Format low Raster low as low

geo-shell> **raster polygon** --name low --output-workspace layers --output-name low_polygons Done converting Raster low to a Polygon Layer low_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/low.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/low.sld!

geo-shell> **raster style set** --name low --style examples/low.sld Style /home/runner/work/geo-shell/geo-shell/examples/low.sld set on low

geo-shell> **layer style set** --name low_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on low_polygons

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

geo-shell> **map add raster** --name mapLow --raster low Added low layer to map mapLow

geo-shell> **map add layer** --name mapLow --layer low_polygons Added low_polygons layer to map mapLow

geo-shell> **map draw** --name mapLow --file examples/raster_divide_raster_low.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_divide_raster_low.png!

13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0
1.0	2.0	3.0	4.0

geo-shell> **format open** --name divide --input examples/divide.tif Format divide opened!

geo-shell> **raster divide raster** --name1 high --name2 low --output-format divide --output-name divide

Divided high by low to create divide!

geo-shell> **raster polygon** --name divide --output-workspace layers --output-name divide_polygons Done converting Raster divide to a Polygon Layer divide_polygons!

geo-shell> **style raster palette colormap** --min 1 --max 50 --palette MutedTerrain --number 20 --file examples/divide.sld

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/divide.sld!

geo-shell> **raster style set** --name divide --style examples/divide.sld Style /home/runner/work/geo-shell/geo-shell/examples/divide.sld set on divide

geo-shell> **layer style set** --name divide_polygons --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on divide_polygons

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

geo-shell> **map add raster** --name mapSubtract --raster divide Added divide layer to map mapSubtract

geo-shell> **map add layer** --name mapSubtract --layer divide_polygons Added divide_polygons layer to map mapSubtract

geo-shell> **map draw** --name mapSubtract --file examples/raster_divide_raster_divide.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_divide_raster_divide.png!

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

1.30769228	9352417 1.28571426	86843872 1.26666665	07720947 1.25
1.44444441	79534912 1.39999997	6158142 1.36363637	44735718
1.79999995	23162842 1.66666662	69302368 1.57142853	73687744 1.5
5.0	3.0	2.33333325	38604736 2.0

Divide Constant

Divide constant values against a Raster

geo-shell> **raster divide constant** --name pc --output-format pcDividedBy2 --output-name pcDividedBy2 --values 2

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
values	The values	true		

geo-shell> **format open** --name pierce_county --input src/test/resources/pc.tif Format pierce_county opened!

geo-shell> **raster open** --format pierce_county --raster pc --name pc Opened Format pierce_county Raster pc as pc geo-shell> **raster value** --name pc --x -121.799927 --y 46.867703 3069.0

geo-shell> **format open** --name pcDividedBy2 --input examples/pcDividedBy2.tif Format pcDividedBy2 opened!

geo-shell> **raster divide constant** --name pc --output-format pcDividedBy2 --output-name pcDividedBy2 --values 2

Divided pc by 2 to create pcDividedBy2!

geo-shell> **raster value** --name pcDividedBy2 --x -121.799927 --y 46.867703 1534.5

geo-shell> **style raster colormap** --raster pcDividedBy2 --values "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/style_raster_colormap.sld

Colormap Raster Style for pcDividedBy2 written to /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld!

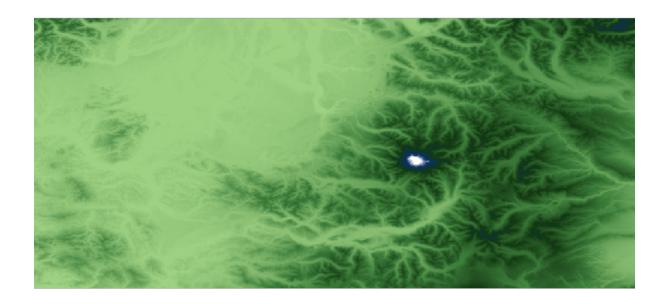
geo-shell> **raster style set** --name pcDividedBy2 --style examples/style_raster_colormap.sld

Style /home/runner/work/geo-shell/geo-shell/examples/style_raster_colormap.sld set on pcDividedBy2

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

geo-shell> **map add raster** --name map --raster pcDividedBy2 Added pcDividedBy2 layer to map map

geo-shell> **map draw** --name map --file examples/raster_divide_constant.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_divide_constant.png!



Contours

Create contours.

 $\verb|geo-shell| \verb| raster contours -- name pc -- output-workspace contours -- output-name contours -- levels 0,100,200,300,600,900 \\$

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
band	The Raster band to contour	false	0	0
levels	The contour level or interval	true		
simplify	Whether to simplify	false	false	false
smooth	Whether to smooth	false	false	false
bounds	The Bounds	false		

geo-shell> **format open** --name pc --input src/test/resources/pc.tif Format pc opened!

geo-shell> **raster open** --format pc --raster pc --name pc Opened Format pc Raster pc as pc

geo-shell> **style raster colormap** --raster pc --values "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/pc.sld Colormap Raster Style for pc written to /home/runner/work/geo-shell/geo-shell/examples/pc.sld!

geo-shell> **raster style set** --name pc --style examples/pc.sld Style /home/runner/work/geo-shell/geo-shell/examples/pc.sld set on pc

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

geo-shell> **raster contours** --name pc --output-workspace contours --output-name contours --levels 0,100,200,300,600,900

Done creating contours!

geo-shell> **style create** --params "stroke=black stroke-width=0.25" --file examples/contours.sld Style stroke=black stroke-width=0.25 written to /home/runner/work/geo-shell/geo-shell/examples/contours.sld!

geo-shell> **layer style set** --name contours --style examples/contours.sld Style /home/runner/work/geo-shell/geo-shell/examples/contours.sld set on contours

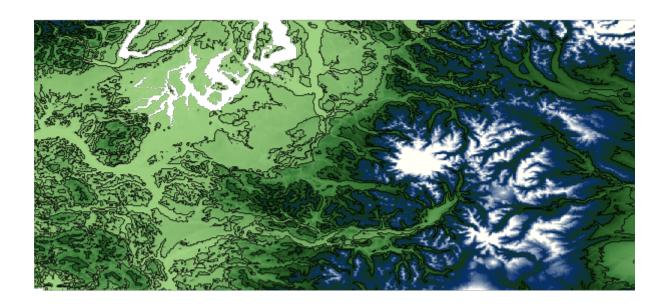
geo-shell> **map open** --name map Map map opened!

geo-shell> **map add raster** --name map --raster pc Added pc layer to map map

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

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

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster contours.png!



Crop

Crop a Raster.

geo-shell> **raster crop** --name earth --output-format earthCropped --output-name earthCropped --geometry "-160.927734,6.751896,-34.716797,57.279043"

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
geometry	The geometry	true		

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> **raster open** --format earth --raster earth --name earth Opened Format earth Raster earth as earth

 ${\it geo-shell} \verb|> {\it format open --} name earth Cropped -- input examples | earth Cropped.tif Format earth Cropped opened!$

geo-shell> **raster crop** --name earth --output-format earthCropped --output-name earthCropped --geometry "-160.927734,6.751896,-34.716797,57.279043"

Raster earth cropped to earthCropped!

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

geo-shell> **map add raster** --name map --raster earthCropped Added earthCropped layer to map map

geo-shell> **map draw** --name map --file examples/raster_crop.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_crop.png!

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



Mosaic

Mosaic two Rasters together

geo-shell> raster mosaic --name1 alki2 --name2 alki3 --output-format mosaic --output-name mosaic

Name	Description	Mandatory	Specified Default	Unspecified Default
name1	The Raster name	true		
name2	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		

geo-shell> format open --input examples/alki2.tif --name alki2

Format alki2 opened!

geo-shell> **raster open** --format alki2 --raster alki2 --name alki2 Opened Format alki2 Raster alki2 as alki2

geo-shell> **format open** --input examples/alki3.tif --name alki3 Format alki3 opened!

geo-shell> **raster open** --format alki3 --raster alki3 --name alki3 Opened Format alki3 Raster alki3 as alki3

geo-shell> **format open** --input examples/mosaic.tif --name mosaic Format mosaic opened!

geo-shell> **raster mosaic** --name1 alki2 --name2 alki3 --output-format mosaic --output-name mosaic Mosaic alki2 and alki3 to create mosaic!

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

geo-shell> **map add raster** --name map --raster mosaic Added mosaic layer to map map

geo-shell> **map draw** --name map --file examples/raster_mosaic.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_mosaic.png!



Reclassify

Reclassify a Raster.

geo-shell> **raster reclassify** --name pc --output-format pcReclass --output-name pcReclass --ranges "0-0=1,0-50=2,50-200=3,200-1000=4,1000-1500=5,1500-4000=6"

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
ranges	The comma delimited reclassification ranges (from- to=value)	true		
band	The Raster band to contour	false	0	0
nodata	The NODATA value	false	0	0

geo-shell> **format open** --name pc --input src/test/resources/pc.tif Format pc opened!

geo-shell> **raster open** --format pc --raster pc --name pc Opened Format pc Raster pc as pc

geo-shell> **format open** --name pcReclass --input examples/pcReclass.tif Format pcReclass opened!

geo-shell> **raster reclassify** --name pc --output-format pcReclass --output-name pcReclass --ranges "0-0=1,0-50=2,50-200=3,200-1000=4,1000-1500=5,1500-4000=6"
Raster pc reclassified to pcReclass!

geo-shell> colormap --values style raster --raster pcReclass "1=#9fd182,2=#3e7f3c,3=#133912,4=#08306b,5=#FFF8DC,6=#ffffff" --file examples/pcReclass.sld Colormap Raster for pcReclass written /home/runner/work/geo-shell/geo-Style to shell/examples/pcReclass.sld!

geo-shell> **raster style set** --name pcReclass --style examples/pcReclass.sld Style /home/runner/work/geo-shell/geo-shell/examples/pcReclass.sld set on pcReclass

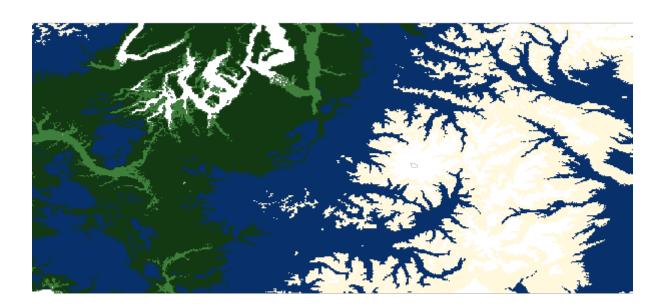
geo-shell> **map open** --name map Map map opened!

geo-shell> map add raster --name map --raster pcReclass

Added pcReclass layer to map map

geo-shell> **map draw** --name map --file examples/raster_reclassify.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_reclassify.png!

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



Reproject

Project a Raster.

geo-shell> **raster reproject** --name earthCropped --output-format earth3857 --output-name earth3857 --projection "EPSG:3857"

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
projection	The projection	true		

geo-shell> **format open** --name earth --input src/test/resources/earth.tif Format earth opened!

geo-shell> raster open --format earth --raster earth --name earth

Opened Format earth Raster earth as earth

geo-shell> **format open** --name earthCropped --input examples/earthCropped.tif Format earthCropped opened!

 $\label{localization} {\it geo-shell} \hbox{$\it raster crop}$ $\it --$name earth $\it --$output-format earthCropped $\it --$output-name earthCropped $\it --$geometry "-180.0,-85.06,180.0,85.06"$

Raster earth cropped to earthCropped!

geo-shell> **format open** --name earth3857 --input examples/earth3857.tif Format earth3857 opened!

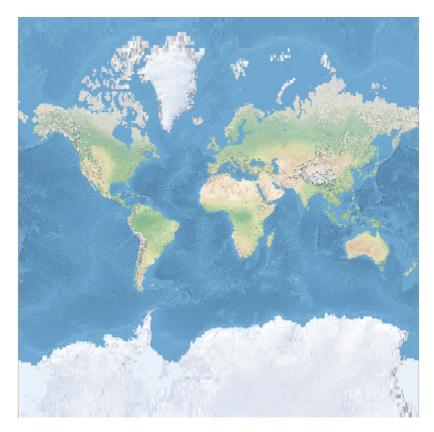
geo-shell> **raster reproject** --name earthCropped --output-format earth3857 --output-name earth3857 --projection "EPSG:3857"

Raster earthCropped reprojected to earth3857 as EPSG:3857!

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

geo-shell> **map add raster** --name map --raster earth3857 Added earth3857 layer to map map

geo-shell> **map draw** --name map --file examples/raster_reproject.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_reproject.png!



Scale

Scale a Raster.

geo-shell> raster scale --name pc --output-format pcScaled --output-name pcScaled --x 0.5 --y 0.5

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
X	The scale factor along the x axis	true		
у	The scale factor along the y axis	true		
x-trans	The x translation	false	0	0
y-trans	The y translation	false	0	0
interpolation	The interpolation method (bicubic, bicubic2, bilinear, nearest)	false	nearest	nearest

geo-shell> **format open** --name pc --input src/test/resources/pc.tif Format pc opened!

geo-shell> **raster open** --format pc --raster pc --name pc Opened Format pc Raster pc as pc

geo-shell> **format open** --name pcScaled --input examples/pcScaled.tif Format pcScaled opened!

geo-shell> **raster scale** --name pc --output-format pcScaled --output-name pcScaled --x 0.5 --y 0.5 Raster pc scaled to pcScaled!

geo-shell> style raster colormap --values --raster рс "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/pcScaled.sld Colormap Raster Style for рс written to /home/runner/work/geo-shell/geoshell/examples/pcScaled.sld!

geo-shell> **raster style set** --name pcScaled --style examples/pcScaled.sld Style /home/runner/work/geo-shell/geo-shell/examples/pcScaled.sld set on pcScaled

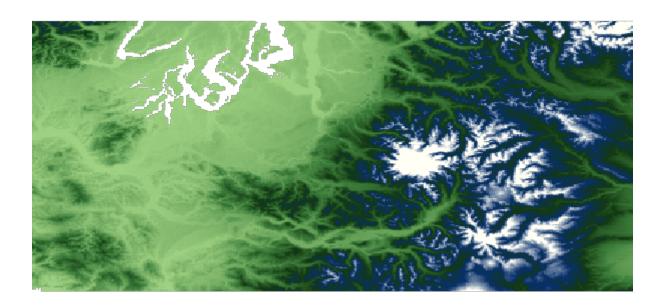
geo-shell> **map open** --name map Map map opened!

geo-shell> map add raster --name map --raster pcScaled

Added pcScaled layer to map map

geo-shell> **map draw** --name map --file examples/raster_scale.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_scale.png!

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



Shaded Relief

Create a shaded relief raster

geo-shell> **raster shadedrelief** --name pc --output-format pcShaded --output-name pcShaded --scale 1.0 --altitude 25 --azimuth 260

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		
scale	The scale	true		
altitude	The altitude	true		
azimuth	The azimuth	true		
resx	The x resolution	false	0.5	0.5

resy	The y resolution	false	0.5	0.5
zetafactory	The zeta factory	false	1.0	1.0
algorithm	The x resolution	false	DEFAULT	DEFAULT

geo-shell> **format open** --name pc --input src/test/resources/pc.tif Format pc opened!

geo-shell> **raster open** --format pc --raster pc --name pc Opened Format pc Raster pc as pc

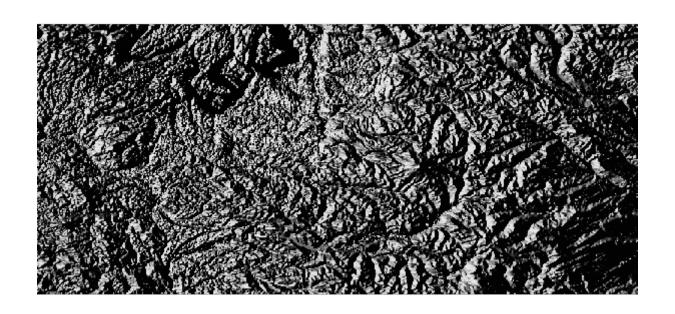
geo-shell> **format open** --name pcShaded --input examples/pcShaded.tif Format pcShaded opened!

geo-shell> **raster shadedrelief** --name pc --output-format pcShaded --output-name pcShaded --scale 1.0 --altitude 25 --azimuth 260 Create shaded relief pcShaded from pc!

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

geo-shell> **map add raster** --name map --raster pcShaded Added pcShaded layer to map map

geo-shell> **map draw** --name map --file examples/raster_shadedrelief.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_shadedrelief.png!



Stylize

Create a new Raster by baking the style into an existing Raster

geo-shell> raster stylize --name pc --output-format pcStyled --output-name pcStyled

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-format	The output Format Workspace	true		
output-name	The output Raster name	false		

geo-shell> **format open** --name pc --input src/test/resources/pc.tif Format pc opened!

geo-shell> **raster open** --format pc --raster pc --name pc Opened Format pc Raster pc as pc

geo-shell> **style raster colormap** --raster pc --values "25=#9fd182,470=#3e7f3c,920=#133912,1370=#08306b,1820=#fffff5" --file examples/pc.sld Colormap Raster Style for pc written to /home/runner/work/geo-shell/geo-shell/examples/pc.sld!

geo-shell> **raster style set** --name pc --style examples/pc.sld Style /home/runner/work/geo-shell/geo-shell/examples/pc.sld set on pc

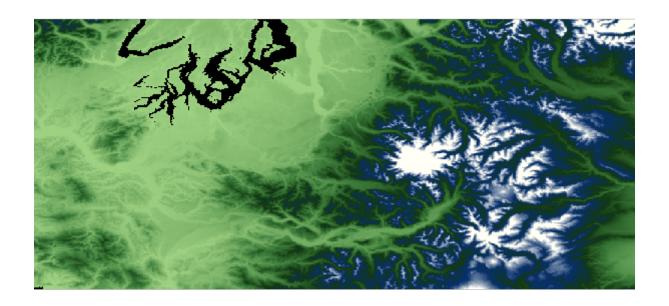
geo-shell> **format open** --name pcStyled --input examples/pcStyled.tif Format pcStyled opened!

geo-shell> **raster stylize** --name pc --output-format pcStyled --output-name pcStyled Stylized pc to create pcStyled!

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

geo-shell> **map add raster** --name map --raster pcStyled Added pcStyled layer to map map

geo-shell> **map draw** --name map --file examples/raster_stylize.png
Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_stylize.png!



Polygon

Convert a raster in a polygon

geo-shell> **raster polygon** --name high --output-workspace layers --output-name grid

Name	Description	Mandatory	Specified Default	Unspecified Default
name	The Raster name	true		
output-workspace	The output Layer Workspace	true		
output-name	The output Layer name	true		
band	The band	false	0	0
inside-edges	Whether to include inside edges	false	true	true
roi	The region of interest	false		
nodata	The NODATA value	false	0	0

	The comma delimited reclassification	false	
1	ranges (min,minIncluded, max,maxIncluded)		

geo-shell> **format open** --name high --input src/test/resources/high.tif Format high opened!

geo-shell> **raster open** --format high --raster high --name high Opened Format high Raster high as high

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

geo-shell> **raster polygon** --name high --output-workspace layers --output-name grid Done converting Raster high to a Polygon Layer grid!

geo-shell> $style\ raster\ palette\ colormap\ --min\ 1\ --max\ 50\ --palette\ MutedTerrain\ --number\ 20\ --file\ examples/high.sld$

Colormap Palette Raster Style written to /home/runner/work/geo-shell/geo-shell/examples/high.sld!

geo-shell> **raster style set** --name high --style examples/high.sld Style /home/runner/work/geo-shell/geo-shell/examples/high.sld set on high

 $\label{localize} {\tt geo-shell} \verb|> {\tt style} | {\tt create} | {\tt --params} | {\tt stroke-black} | {\tt stroke-width=2} | {\tt label-value} | {\tt label-size=12} | {\tt --file} | {\tt examples/grid.sld} |$

Style stroke=black stroke-width=2 label=value label-size=12 written to /home/runner/work/geo-shell/geo-shell/examples/grid.sld!

geo-shell> **layer style set** --name grid --style examples/grid.sld Style /home/runner/work/geo-shell/geo-shell/examples/grid.sld set on grid

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

geo-shell> **map add raster** --name map --raster high Added high layer to map map

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

geo-shell> **map draw** --name map --file examples/raster_polygon.png --bounds "-180,-90,180,90,EPSG:4326"

Done drawing /home/runner/work/geo-shell/geo-shell/examples/raster_polygon.png!

17.0	18.0	19.0	20.0
13.0	14.0	15.0	16.0
9.0	10.0	11.0	12.0
5.0	6.0	7.0	8.0