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# **Raster Commands**

### **Absolute**

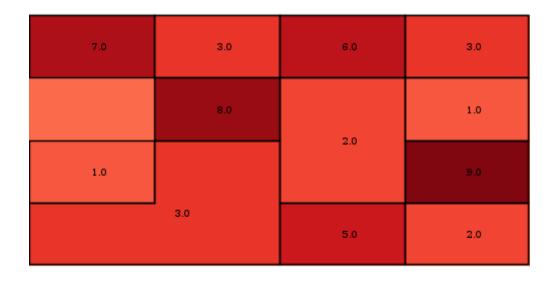
Calculate the absolute value of the values of a Raster.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |

| Short Name | Long Name         | Description            |
|------------|-------------------|------------------------|
| -1         | input-raster-name | The input raster name  |
| -р         | input-projection  | The input projection   |
|            | help              | Print the help message |
|            | web-help          | Open help in a browser |

geoc raster abs -i src/test/resources/absolute.tif -o target/absolute\_abs.tif

| -7.0 | 3.0 | -6.0 | 3.0 |
|------|-----|------|-----|
|      | 8.0 | 20   | 1.0 |
| -1.0 | 20  | -2.0 | 9.0 |
| -3.0 | 3.0 | -5.0 | 2.0 |



### **Add Constant**

Add a constant value to a Raster.

| Short Name | Long Name | Description |
|------------|-----------|-------------|
| -V         | value     | The value   |

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -1         | input-raster-name    | The input raster name    |
| -p         | input-projection     | The input projection     |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

### Get original value

geoc raster get value -i src/test/resources/pc.tif -x -121.799927 -y 46.867703

3069.0

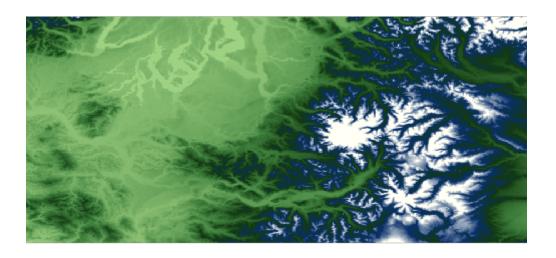
#### Add 100 to all cells

geoc raster add constant -i src/test/resources/pc.tif -v 100 -o target/pc\_add.tif

#### Get new value

geoc raster get value -i target/pc\_add.tif -x -121.799927 -y 46.867703

3169.0



# Add

Add two Raster together.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -k         | other-raster         | The other raster         |
| -у         | other-raster-name    | The other raster name    |
| -j         | other-projection     | The other projection     |
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -l         | input-raster-name    | The input raster name    |
| -р         | input-projection     | The input projection     |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

geoc raster add -i src/test/resources/low.tif -k src/test/resources/high.tif -o
target/lowPlusHigh.tif

Low

| 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  |

High

| 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  |

Low + High

| 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 |

# **Animated GIF**

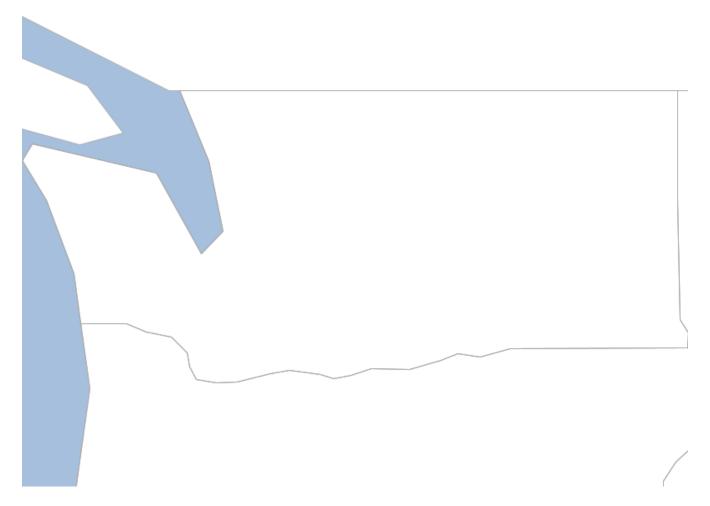
Create an animated GIF from a list of GIFs.

| Short Name | Long Name   | Description                            |
|------------|-------------|--|
| -f         | file        | The GIF file                           |
| -0         | output-file | The output animated GIF file           |
| -d         | delay       | The delay between images               |
| -r         | repeat      | Whether to repeat the animation or not |
|            | help        | Print the help message                 |
|            | web-help    | Open help in a browser                 |

First, lets create individual maps of 3 states.

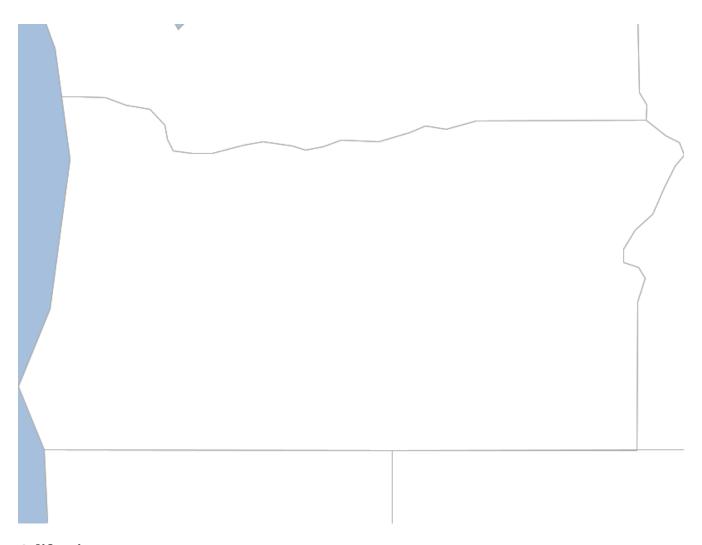
#### Washington

```
geoc map draw -l "layertype=layer file=src/test/resources/data.gpkg layername=ocean
style=src/test/resources/ocean.sld" -l "layertype=layer
file=src/test/resources/data.gpkg layername=countries
style=src/test/resources/countries.sld" -l "layertype=layer
file=src/test/resources/data.gpkg layername=states
style=src/test/resources/states.sld" -b -124.68721008300781,45.59199778907822,
-116.90652787968992,49.000885321643864 -f target/state_washington.png
```



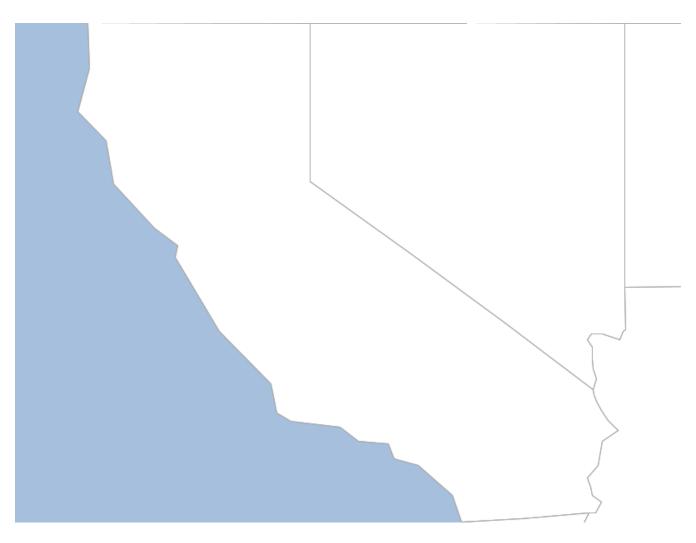
#### Oregon

```
geoc map draw -l "layertype=layer file=src/test/resources/data.gpkg layername=ocean
style=src/test/resources/ocean.sld" -l "layertype=layer
file=src/test/resources/data.gpkg layername=countries
style=src/test/resources/countries.sld" -l "layertype=layer
file=src/test/resources/data.gpkg layername=states
style=src/test/resources/states.sld" -b -124.5328399999996,41.99260508886846,
-116.45779557988342,46.2830694871044 -f target/state_oregon.png
```



#### California

geoc map draw -l "layertype=layer file=src/test/resources/data.gpkg layername=ocean
style=src/test/resources/ocean.sld" -l "layertype=layer
file=src/test/resources/data.gpkg layername=countries
style=src/test/resources/countries.sld" -l "layertype=layer
file=src/test/resources/data.gpkg layername=states
style=src/test/resources/states.sld" -b -124.39795772362243,32.535327053348965,
-114.16597164595498,41.99947805436335 -f target/state\_california.png



Now lets stitch them together into an animated GIF.

geoc raster animatedgif -f target/state\_washington.png -f target/state\_oregon.png -f
target/state\_california.png -o target/states.gif

[geoc animatedgif] | geoc\_animatedgif.gif

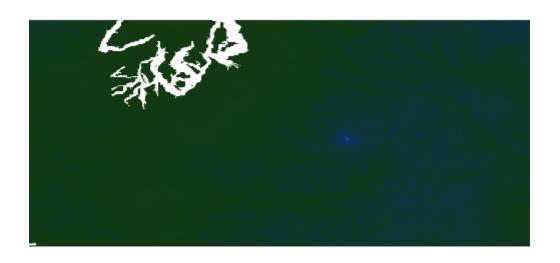
### Convolve

Convolve the values of a Raster.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -W         | width                | The kernel width         |
| -h         | height               | The kernel height        |
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -l         | input-raster-name    | The input raster name    |
| -p         | input-projection     | The input projection     |

| Short Name | Long Name | Description            |  |
|------------|-----------|------------------------|--|
|            | help      | Print the help message |  |
|            | web-help  | Open help in a browser |  |

geoc raster convolve -i src/test/resources/pc.tif -o target/pc\_convolve.tif -w 2 -h 2



#### Original

```
geoc raster info -i src/test/resources/pc.tif
```

```
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: -123.55291606131708, 46.25375026634816, -120.73958272798374,
47.522916933014834
Pixel Size: 0.0035166666666666658, 0.0031729166666666763
Block Size: 800, 5
Bands:
   GRAY INDEX
     Min Value: -23.0 Max Value: 4370.0
```

```
geoc raster info -i target/pc_convolve.tif
```

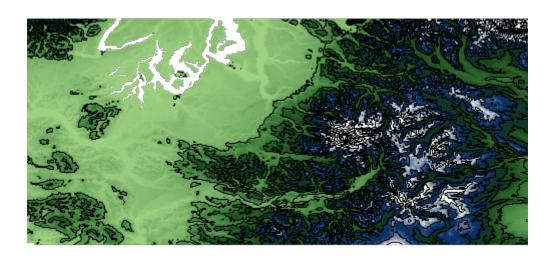
```
Format: GeoTIFF
Size: 800, 400
Projection ID: EPSG:4326
Projection WKT: GEOGCS["WGS 84",
  DATUM["World Geodetic System 1984",
    SPHEROID["WGS 84", 6378137.0, 298.257223563, AUTHORITY["EPSG","7030"]],
    AUTHORITY["EPSG","6326"]],
  PRIMEM["Greenwich", 0.0, AUTHORITY["EPSG", "8901"]],
  UNIT["degree", 0.017453292519943295],
  AXIS["Geodetic longitude", EAST],
  AXIS["Geodetic latitude", NORTH],
  AUTHORITY["EPSG","4326"]]
Extent: -123.55291606131708, 46.25375026634816, -120.73958272798374,
47.522916933014834
Pixel Size: 0.0035166666666666658, 0.0031729166666666763
Block Size: 800, 10
Bands:
   GRAY INDEX
      Min Value: -32767.0 Max Value: 17278.0
```

### **Contour**

Create contours from a Raster.

| Short Name | Long Name         | Description            |
|------------|-------------------|------------------------|
| -b         | band              | The band               |
| -v         | level             | A level or interval    |
| -S         | simplify          | Whether to simplify    |
| -m         | smooth            | Whether to smooth      |
| -n         | bounds            | The bounds             |
| -0         | output-workspace  | The output workspace   |
| -r         | output-layer      | The output layer       |
| -i         | input-raster      | The input raster       |
| -1         | input-raster-name | The input raster name  |
| -p         | input-projection  | The input projection   |
|            | help              | Print the help message |
|            | web-help          | Open help in a browser |

geoc raster contour -i src/test/resources/pc.tif -b 0 -v 300 -s -m -o
target/contours.shp

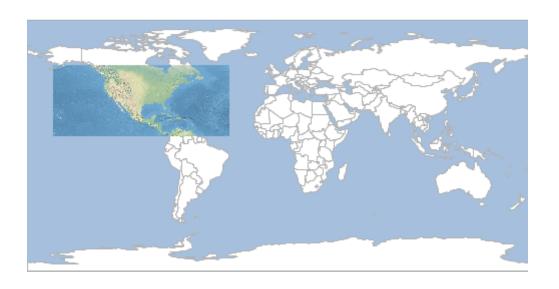


# **Crop with Bounds**

Crop a Raster with Bounds.

| Short Name | Long Name            | Description                               |  |
|------------|----------------------|---|--|
| -b         | bound                | The Bounds                                |  |
| -X         | pixel                | Whether the Bounds is pixel or geographic |  |
| -0         | output-raster        | The output raster                         |  |
| -f         | output-raster-format | The output raster format                  |  |
| -i         | input-raster         | The input raster                          |  |
| -1         | input-raster-name    | The input raster name                     |  |
| -р         | input-projection     | The input projection                      |  |
|            | help                 | Print the help message                    |  |
|            | web-help             | Open help in a browser                    |  |

geoc raster crop -i src/test/resources/earth.tif -b -160.927734,6.751896,
-34.716797,57.279043 -o target/earth\_cropped.tif

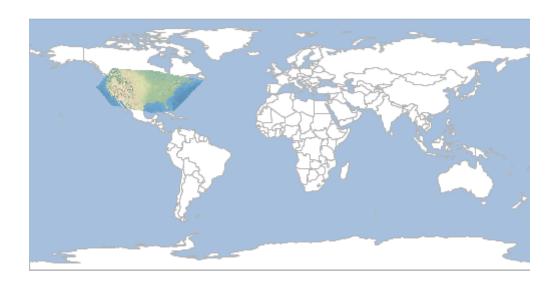


# **Crop with Geometry**

Crop a Raster with Geometry.

| Short Name | Long Name            | Description              |  |
|------------|----------------------|--------------------------|--|
| -g         | geometry             | The Geometry             |  |
| -0         | output-raster        | The output raster        |  |
| -f         | output-raster-format | The output raster format |  |
| -i         | input-raster         | The input raster         |  |
| -1         | input-raster-name    | The input raster name    |  |
| -р         | input-projection     | The input projection     |  |
|            | help                 | Print the help message   |  |
|            | web-help             | Open help in a browser   |  |

geoc raster crop with geometry -i src/test/resources/earth.tif -g "POLYGON ((-120.06886118446164 54.657570186377484, -131.4744345802818 40.88641840854305, -120.66873293244274 27.841500134049014, -91.23852896646747 22.376168381822453, -75.66538001484537 23.99772020337508, -54.66444615739175 45.994788780815526, -91.94198075352523 53.20175611636799, -120.06886118446164 54.657570186377484))" -o target/earth\_cropped.tif



# **Crop with Layer**

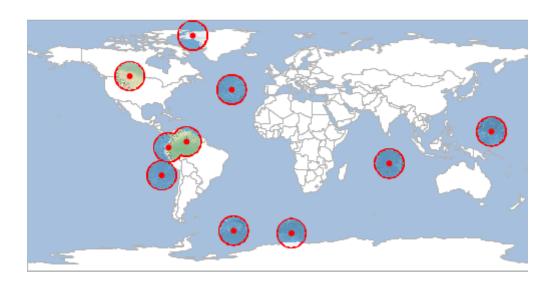
Crop a Raster with a Layer.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -W         | input-workspace      | The input workspace      |
| -у         | input-layer          | The input layer          |
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -1         | input-raster-name    | The input raster name    |
| -р         | input-projection     | The input projection     |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

geoc vector randompoints -n 10 -g -180,-90,180,90 -o target/locations.shp

geoc vector buffer -d 10 -i target/locations.shp -o target/buffers.shp

geoc raster crop with layer -i src/test/resources/earth.tif -o
target/earth\_cropped.tif -w target/buffers.shp



# **Display**

Display a Raster in a simple GUI Window.

| Short Name | Long Name         | Description            |
|------------|-------------------|------------------------|
| -W         | width             | The width              |
| -h         | height            | The height             |
| -S         | sld-file          | The sld file           |
| -b         | bounds            | The bounds             |
| -m         | layer             | The map layer          |
| -g         | background-color  | The background color   |
| -i         | input-raster      | The input raster       |
| -1         | input-raster-name | The input raster name  |
| -р         | input-projection  | The input projection   |
|            | help              | Print the help message |
|            | web-help          | Open help in a browser |

geoc raster display -i src/test/resources/pc.tif



# Divide

Divide one Raster by another Raster.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -k         | other-raster         | The other raster         |
| -у         | other-raster-name    | The other raster name    |
| -j         | other-projection     | The other projection     |
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -1         | input-raster-name    | The input raster name    |
| -р         | input-projection     | The input projection     |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

geoc raster divide -i src/test/resources/high.tif -k src/test/resources/low.tif -o target/divided.tif

Low

| 13.00 | 14.00 | 15.00 | 16.00 |
|-------|-------|-------|-------|
| 9.00  | 10.00 | 11.00 | 12.00 |
| 5.00  | 6.00  | 7.00  | 8.00  |
| 1.00  | 2.00  | 3.00  | 4.00  |

High

| 17.00 | 18.00 | 19.00 | 20.00 |
|-------|-------|-------|-------|
| 13.00 | 14.00 | 15.00 | 16.00 |
| 9.00  | 10.00 | 11.00 | 12.00 |
| 5.00  | 6.00  | 7.00  | 8.00  |

High / Low

| 1.31 | 1.29 | 1.27 | 1.25 |
|------|------|------|------|
| 1.44 | 1.40 | 1.36 | 1.33 |
| 1.80 | 1.67 | 1.57 | 1.50 |
| 5.00 | 3.00 | 2.33 | 2.00 |

## **Divide Constant**

Divide a Raster by a constant value.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -V         | value                | The value                |
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -1         | input-raster-name    | The input raster name    |
| -p         | input-projection     | The input projection     |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

geoc raster divide constant -i src/test/resources/high.tif -v 2.1 -o target/divided.tif

Raster

| 17.00 | 18.00 | 19.00 | 20.00 |
|-------|-------|-------|-------|
| 13.00 | 14.00 | 15.00 | 16.00 |
| 9.00  | 10.00 | 11.00 | 12.00 |
| 5.00  | 6.00  | 7.00  | 8.00  |

Raster / 2.1

| 8.10 | 8.57 | 9.05 | 9.52 |
|------|------|------|------|
| 6.19 | 6.67 | 7.14 | 7.62 |
| 4.29 | 4.76 | 5.24 | 5.71 |
| 2.38 | 2.86 | 3.33 | 3.81 |

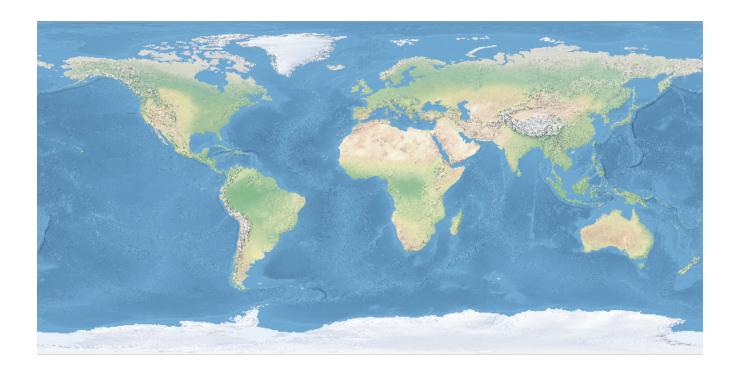
### **Draw**

Draw a Raster to an image.

| Short Name | Long Name | Description          |
|------------|-----------|----------------------|
| -f         | file      | The output file      |
| -t         | type      | The type of document |
| -W         | width     | The width            |
| -h         | height    | The height           |
| -S         | sld-file  | The sld file         |
| -b         | bounds    | The bounds           |
| -m         | layer     | The map layer        |

| Short Name | Long Name         | Description            |
|------------|-------------------|------------------------|
| -i         | input-raster      | The input raster       |
| -1         | input-raster-name | The input raster name  |
| -р         | input-projection  | The input projection   |
|            | help              | Print the help message |
|            | web-help          | Open help in a browser |

geoc raster draw -i src/test/resources/earth.tif -f target/image.png



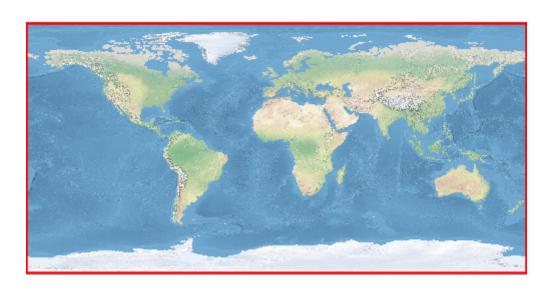
# **Envelope**

Get the Envelope of a Raster as a Vector Layer.

| Short Name | Long Name         | Description           |
|------------|-------------------|-----------------------|
| -0         | output-workspace  | The output workspace  |
| -r         | output-layer      | The output layer      |
| -i         | input-raster      | The input raster      |
| -1         | input-raster-name | The input raster name |

| Short Name | Long Name        | Description            |
|------------|------------------|------------------------|
| -p         | input-projection | The input projection   |
|            | help             | Print the help message |
|            | web-help         | Open help in a browser |

geoc raster envelope -i src/test/resources/earth.tif -o target/earth\_envelope.shp



# **Exponent**

Calculate the exponent for each cell..

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -1         | input-raster-name    | The input raster name    |
| -р         | input-projection     | The input projection     |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

geoc raster exp -i src/test/resources/pc.tif -o target/pc\_exp.tif



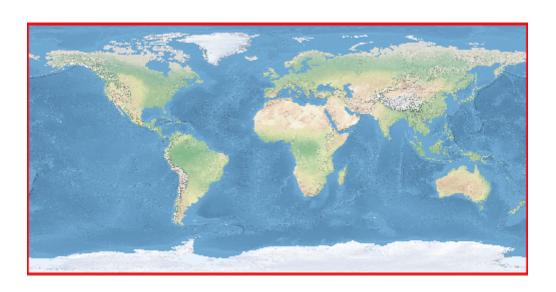
# **Extract Footprint**

Extract the footprint of the Raster as a Vector Layer.

| Short Name | Long Name                    | Description   |
|------------|------------------------------|---|
| -е         | exclusion-range              | A comma delimited range of values to exclude from the search.             |
| -t         | threshold-area               | A number used to exclude small Polygons. The default is 5.                |
| -f         | compute-simplified-footprint | Whether to compute a simplified footprint or not. The default is false.   |
| -S         | simplifier-factor            | A number used to simplify the geometry. The default is 2.                 |
| -c         | remove-collinear             | Whether to remove collinear coordinates. The default is true.             |
| -v         | force-valid                  | Whether to force creation of valid polygons. The default is true.         |
| -у         | loading-type                 | The image loading type (Deferred or Immediate). Immediate is the default. |
| -0         | output-workspace             | The output workspace  |
| -r         | output-layer                 | The output layer  |
| -i         | input-raster                 | The input raster  |
| -1         | input-raster-name            | The input raster name   |

| Short Name | Long Name        | Description            |
|------------|------------------|------------------------|
| -p         | input-projection | The input projection   |
|            | help             | Print the help message |
|            | web-help         | Open help in a browser |

geoc raster extractfootprint -i src/test/resources/earth.tif -o
target/earth\_footprint.shp



# Info

Get information about a Raster.

| Short Name | Long Name         | Description            |
|------------|-------------------|------------------------|
| -i         | input-raster      | The input raster       |
| -1         | input-raster-name | The input raster name  |
| -p         | input-projection  | The input projection   |
|            | help              | Print the help message |
|            | web-help          | Open help in a browser |

geoc raster info -i src/test/resources/earth.tif

```
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
```

### **Get Projection**

Get the Raster Projection.

| Short Name | Long Name         | Description                          |
|------------|-------------------|--------------------------------------|
| -t         | type              | The output type (epsg, id, srs, wkt) |
| -i         | input-raster      | The input raster                     |
| -1         | input-raster-name | The input raster name                |
| -p         | input-projection  | The input projection                 |
|            | help              | Print the help message               |
|            | web-help          | Open help in a browser               |

geoc raster projection -i src/test/resources/earth.tif

EPSG:4326

### **Get Size**

Get the Raster size (width,height).

| Short Name | Long Name         | Description            |
|------------|-------------------|------------------------|
| -i         | input-raster      | The input raster       |
| -1         | input-raster-name | The input raster name  |
| -p         | input-projection  | The input projection   |
|            | help              | Print the help message |
|            | web-help          | Open help in a browser |

geoc raster size -i src/test/resources/earth.tif

800,400

### **Get Value**

Get a value from a Raster

| Short Name | Long Name         | Description                    |
|------------|-------------------|--------------------------------|
| -X         | x-coordinate      | The x coordinate               |
| -у         | y-coordinate      | The y coordinate               |
| -t         | type              | The type can be point or pixel |
| -b         | band              | The band to get a value from   |
| -i         | input-raster      | The input raster               |
| -1         | input-raster-name | The input raster name          |
| -р         | input-projection  | The input projection           |
|            | help              | Print the help message         |
|            | web-help          | Open help in a browser         |

geoc raster get value -i src/test/resources/pc.tif -x -121.799927 -y 46.867703

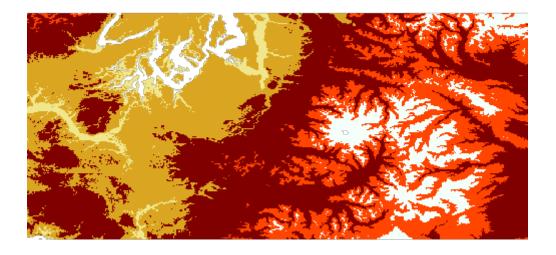
3069.0

# Reclassify

Reclassify a Raster.

| Short Name | Long Name            | Description                          |
|------------|----------------------|--------------------------------------|
| -b         | band                 | The band                             |
| -n         | nodata               | The NODATA value                     |
| -r         | range                | A range: from-to=value or 1-<br>10=5 |
| -0         | output-raster        | The output raster                    |
| -f         | output-raster-format | The output raster format             |
| -i         | input-raster         | The input raster                     |
| -1         | input-raster-name    | The input raster name                |
| -p         | input-projection     | The input projection                 |
|            | help                 | Print the help message               |
|            | web-help             | Open help in a browser               |

geoc raster reclassify -i src/test/resources/pc.tif -o target/pc\_reclass.tif -r 0-0=1 -r 0-50=2 -r 50-200=3 -r 200-1000=5 -r 1000-1500=4 -r 1500-4000=6



# **Style Default**

Create a default Style for a Raster.

| Short Name | Long Name | Description            |
|------------|-----------|------------------------|
| -0         | opacity   | The opacity            |
|            | help      | Print the help message |
|            | web-help  | Open help in a browser |

geoc raster style default

```
<?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor xmlns=</pre>
"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:RasterSymbolizer>
            <sld:Geometry>
              <ogc:Literal>grid</ogc:Literal>
            </sld:Geometry>
            <sld:ContrastEnhancement/>
          </sld:RasterSymbolizer>
       </sld:Rule>
      </sld:FeatureTypeStyle>
    </sld:UserStyle>
 </sld:UserLayer>
</sld:StyledLayerDescriptor>
```

### **Subtract Constant**

Subtract a constant value from a Raster.

| Short Name | Long Name            | Description  |
|------------|----------------------|--|
| -v         | value                | The value  |
| -m         | from                 | Whether to subtract the Raster from the constant or vice verse |
| -0         | output-raster        | The output raster  |
| -f         | output-raster-format | The output raster format                                       |
| -i         | input-raster         | The input raster   |
| -1         | input-raster-name    | The input raster name  |
| -p         | input-projection     | The input projection   |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

Get original value

geoc raster get value -i src/test/resources/pc.tif -x -121.799927 -y 46.867703

3069.0

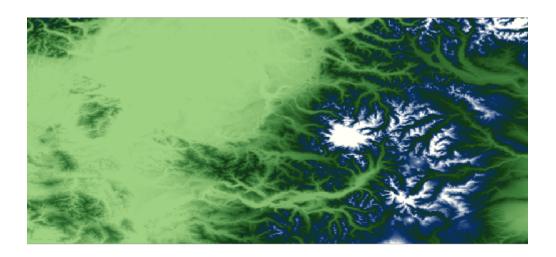
#### Subtract 100 from all cells

geoc raster subtract constant -i src/test/resources/pc.tif -v 100 -o
target/pc\_subtract.tif

#### Get new value

geoc raster get value -i target/pc\_subtract.tif -x -121.799927 -y 46.867703

2969.0



## **Subtract**

Subtract one Raster from another.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -k         | other-raster         | The other raster         |
| -у         | other-raster-name    | The other raster name    |
| -j         | other-projection     | The other projection     |
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |

| Short Name | Long Name         | Description            |
|------------|-------------------|------------------------|
| -i         | input-raster      | The input raster       |
| -1         | input-raster-name | The input raster name  |
| -p         | input-projection  | The input projection   |
|            | help              | Print the help message |
|            | web-help          | Open help in a browser |

geoc raster subtract -i src/test/resources/high.tif -k src/test/resources/low.tif -o
target/highMinusLow.tif

High

| 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  |

Low

| 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  |

High - Low



**To**Convert a Raster from one format to another.

| Short Name | Long Name            | Description              |
|------------|----------------------|--------------------------|
| -0         | output-raster        | The output raster        |
| -f         | output-raster-format | The output raster format |
| -i         | input-raster         | The input raster         |
| -1         | input-raster-name    | The input raster name    |
| -р         | input-projection     | The input projection     |
|            | help                 | Print the help message   |
|            | web-help             | Open help in a browser   |

geoc raster to -i src/test/resources/raster.tif -o target/raster.png -f worldimage



## **World File**

Create a Raster world file

| Short Name | Long Name | Description            |
|------------|-----------|------------------------|
| -b         | bounds    | The bounds             |
| -S         | size      | The size               |
| -f         | file      | The world file         |
|            | help      | Print the help message |
|            | web-help  | Open help in a browser |

geoc raster worldfile -b 10,11,20,21 -s 800,751

0.0125

0.0

0.0

-0.013315579227696404

10.00625

20.993342210386153