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Raster Commands

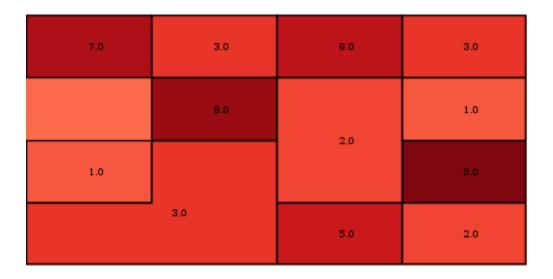
Absolute

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
-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	2.0	-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
-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

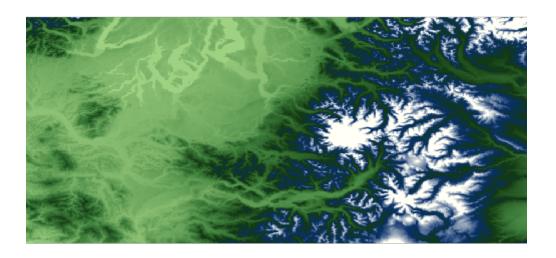
Add 100 to all cells

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

Short Name	Long Name	Description
-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 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

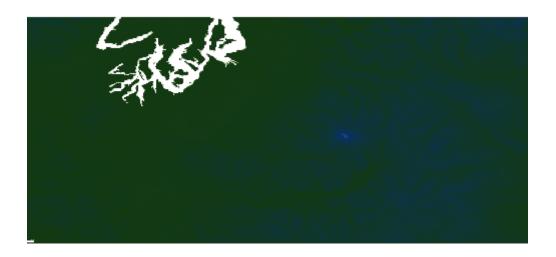
30.0	32.0	34.0	36.0
22.0	24.0	26.0	28.0
14.0	16.0	18.0	20.0
6.0	8.0	10.0	12.0

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
-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

 $geoc\ raster\ convolve\ \hbox{-i}\ src/test/resources/pc.tif}\ \hbox{-o}\ target/pc_convolve.tif}\ \hbox{-w}\ 2\ \hbox{-h}\ 2$



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
```

Convolved

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

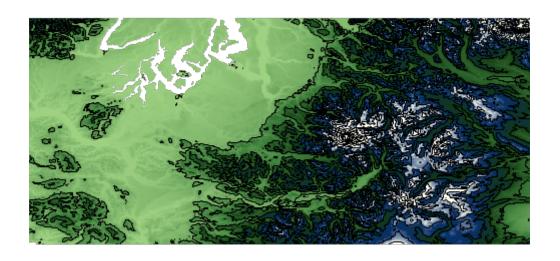
```
Format: GeoTIFF
Size: 800, 400
Projection ID: EPSG:4326
Projection WKT: GEOGCS["WGS 84",
  DATUM["World Geodetic System 1984",
    SPHEROID["WGS 84", 6378137.0, 298.257223563, AUTHORITY["EPSG","7030"]],
    AUTHORITY["EPSG","6326"]],
  PRIMEM["Greenwich", 0.0, AUTHORITY["EPSG", "8901"]],
  UNIT["degree", 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
-р	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
```

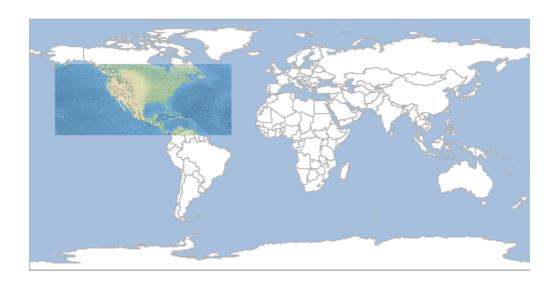


Crop

Crop a Raster.

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
-p	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

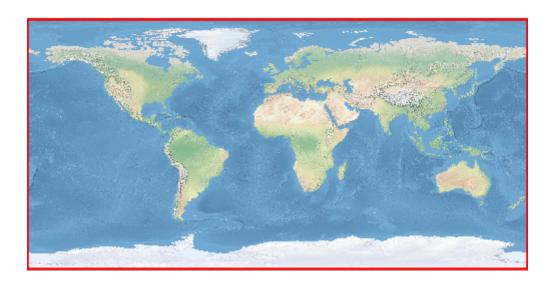


Envelope

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
-р	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



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

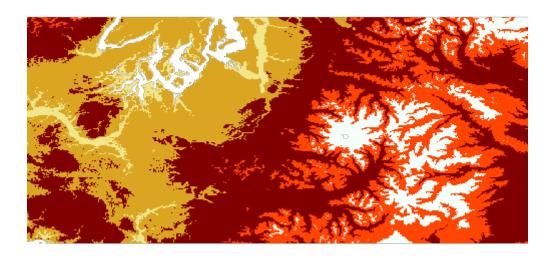
800,400

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- 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
-р	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



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