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## Core Commands

### List

List all command names.

Short Name	Long Name	Description
-d	--description	Include the description
	--help	Print the help message
	--web-help	Open help in a browser

```
geoc list
```

```
carto map
filter cql2xml
geometry convert
geometry dd2pt
geometry geohash bounds
geometry geohash decode
geometry geohash encode
geometry geohash neighbors
geometry greatcirclearc
geometry offset
...
```

List all commands names with a short description.

```
geoc list -d
```

```
carto map = Create a cartographic map
filter cql2xml = Convert a CQL statement to an OCG XML Filter
geometry convert = Convert a geometry from one format to another
geometry dd2pt = Convert a decimal degrees formatted string into a Point
geometry geohash bounds = Calculate the geohashes for the given bounds
geometry geohash decode = Decode a GeoHash to a Geometry.
geometry geohash encode = Encode a Geometry as a GeoHash
geometry geohash neighbors = Get a geohash's neighbors
geometry greatcirclearc = Create a great circle arc.
geometry offset = Create a Geometry offset from the input Geometry
...
```

## Version

Get the current version.

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

```
geoc version
```

```
0.19.0-SNAPSHOT
```

## Help

You can get help from any subcommand.

```
geoc vector buffer --help
```

geoc vector buffer: Buffer the features of the input Layer and save them to the output Layer

```
--help          : Print the help message (default: true)
--web-help      : Open help in a browser (default: false)
-c (--capstyle) VAL      : The cap style (default: round)
-d (--distance) VAL      : The buffer distance
-i (--input-workspace) VAL : The input workspace
-l (--input-layer) VAL    : The input layer
-o (--output-workspace) VAL : The output workspace
-q (--quadrantsegments) N : The number of quadrant segments (default: 8)
-r (--output-layer) VAL   : The output layer
-s (--singlesided)       : Whether buffer should be single sided or not
                          (default: false)
```

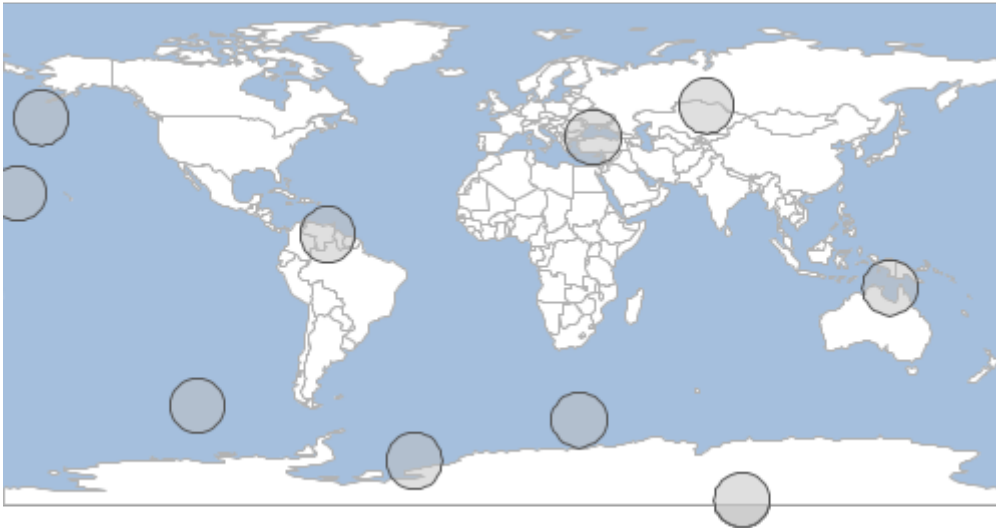
## Pipe

Combine multiple commands together with a pipe.

Short Name	Long Name	Description
-c	--commands	Commands separate by pipe
	--help	Print the help message
	--web-help	Open help in a browser

```
geoc pipe -c vector randompoints -n 10 -g -180,-90,180,90 | vector buffer -d 10
```

```
"id:Integer","the_geom:Polygon:EPSG:4326"
"0","POLYGON ((-22.189987312228823 -74.50276540884273, -22.38213450819652
-76.45366862900401, -22.951191987115955 -78.32959973249363, -23.87529118920337
-80.05846773903876, -25.118919500363347 -81.57383322070821, -26.6342849820328
-82.81746153186819, -28.363152988577923 -83.7415607339556, -30.23908409206754
-84.31061821287504, -32.18998731222882 -84.50276540884273, -34.1408905323901
-84.31061821287504, -36.01682163587972 -83.7415607339556, -37.74568964242484
-82.81746153186819, -39.2610551240943 -81.57383322070821, -40.50468343525428
-80.05846773903876, -41.42878263734169 -78.32959973249363, -41.99784011626113
-76.45366862900401, -42.18998731222882 -74.50276540884273, -41.99784011626113
-72.55186218868145, -41.42878263734169 -70.67593108519183, -40.50468343525428
-68.94706307864672, -39.2610551240943 -67.43169759697726, -37.74568964242484
-66.18806928581728, -36.01682163587972 -65.26397008372987, -34.14089053239011
-64.69491260481043, -32.18998731222882 -64.50276540884273, -30.23908409206754
-64.69491260481043, -28.363152988577923 -65.26397008372987, -26.634284982032803
-66.18806928581728, -25.118919500363347 -67.43169759697726, -23.87529118920337
-68.9470630786467, -22.95119198711596 -70.67593108519183, -22.382134508196522
-72.55186218868144, -22.189987312228823 -74.50276540884273)))"
...
```



## Shell

Run commands in an interactive shell.

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

geoc shell



```
jericks — java ◀ geoc shell — 80x24
~ — java ◀ geoc shell
Last login: Wed Oct 5 18:18:54 on ttys002
jericks@Jareds-MacBook-Pro-2 ~ % geoc shell

geoc

geoc> █
```

You can now type commands in the interactive shell.

If you hit the **tab** key you can get command line completion.

You can use the tab key again to cycle through the suggested values and hit the **return** key to select one.



```
jericks — java ◀ geoc shell — 80x24
~ — java ◀ geoc shell
Last login: Wed Oct 5 18:18:54 on ttys002
[jericks@Jareds-MacBook-Pro-2 ~ % geoc shell

geoc

geoc>
carto      geometry  map        proj        shell       tile       version
filter     list      pipe       raster     style      vector
```

In this example, we are looking for the vector contains command, so after typing vector c and hitting tab, we get a list of all vector commands that begin with the letter c.



Once we have found our command, the shell will also provide completion for options.



```
jericks — java ◀ geoc shell — 80x24
~ — java ◀ geoc shell
geoc> vector buffer -
--capstyle          --output-workspace  -i
--distance          --quadrantsegments  -l
--help              --singlesided       -o
--input-layer       --web-help          -q
--input-workspace   -c                  -r
--output-layer      -d                  -s
```