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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
```

```
0.20.0-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

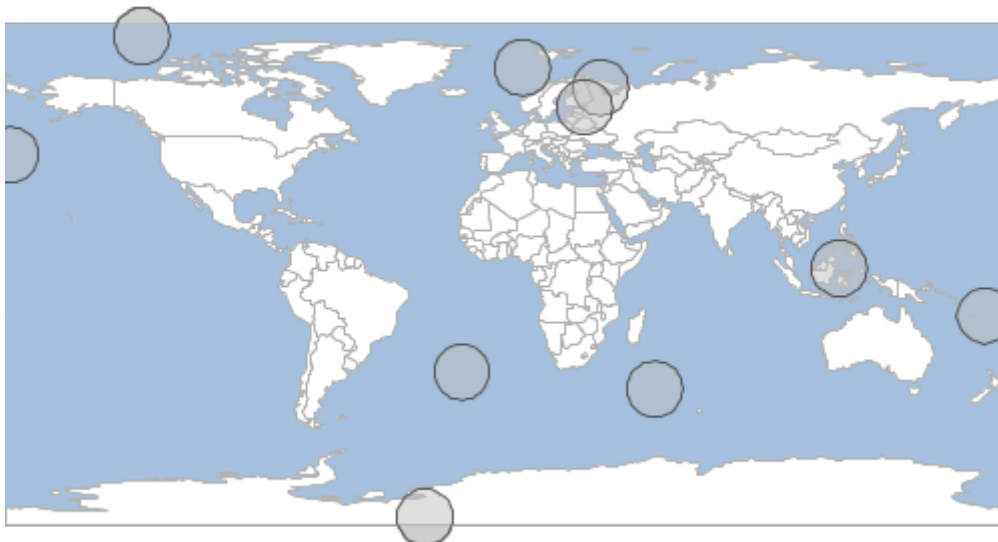
Combine multiple commands together with a pipe.

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 ((-168.16534732955304 42.71029105529013, -168.35749452552074
40.75938783512885, -168.92655200444017 38.88345673163923, -169.8506512065276
37.15458872509411, -171.09427951768757 35.63922324342465, -172.60964499935702
34.39559493226467, -174.33851300590214 33.47149573017726, -176.21444410939176
32.90243825125782, -178.16534732955304 32.71029105529013, -180.11625054971432
32.90243825125782, -181.99218165320394 33.47149573017726, -183.72104965974907
34.39559493226467, -185.23641514141852 35.63922324342465, -186.48004345257849
37.15458872509411, -187.40414265466592 38.88345673163923, -187.97320013358535
40.75938783512884, -188.16534732955304 42.71029105529013, -187.97320013358535
44.661194275451415, -187.40414265466592 46.53712537894103, -186.48004345257849
48.26599338548615, -185.23641514141852 49.7813588671556, -183.72104965974907
51.024987178315584, -181.99218165320394 51.94908638040299, -180.11625054971432
52.51814385932243, -178.16534732955304 52.71029105529013, -176.21444410939176
52.518143859322436, -174.33851300590214 51.949086380402996, -172.60964499935702
51.024987178315584, -171.09427951768757 49.7813588671556, -169.8506512065276
48.26599338548615, -168.92655200444017 46.537125378941035, -168.35749452552074
44.661194275451415, -168.16534732955304 42.71029105529013)))"
```

...



## 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 shell

[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
```