# Table of Contents

# 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 ((-40.599234219041165 88.78238953816066, -40.79138141500886
86.83148631799938, -41.3604388939283 84.95555521450976, -42.28453809601571
83.22668720796463, -43.52816640717569 81.71132172629518, -45.043531888845145
80.4676934151352, -46.772399895390265 79.54359421304778, -48.648330998879885
78.97453673412835, -50.599234219041165 78.78238953816066, -52.550137439202445
78.97453673412835, -54.426068542692065 79.54359421304778, -56.154936549237185
80.4676934151352, -57.67030203090664 81.71132172629518, -58.91393034206662
83.22668720796463, -59.83802954415403 84.95555521450976, -60.40708702307347
86.83148631799938, -60.599234219041165 88.78238953816066, -60.40708702307347
90.73329275832194, -59.83802954415403 92.60922386181156, -58.91393034206662
94.33809186835668, -57.67030203090664 95.85345735002613, -56.154936549237185
97.09708566118611, -54.426068542692065 98.02118486327352, -52.55013743920245
98.59024234219297, -50.599234219041165 98.78238953816066, -48.648330998879885
98.59024234219297, -46.772399895390265 98.02118486327352, -45.043531888845145
97.09708566118611, -43.52816640717569 95.85345735002613, -42.28453809601571
94.33809186835668, -41.360438893928304 92.60922386181156, -40.791381415008864
90.73329275832195, -40.599234219041165 88.78238953816066))"
...
```
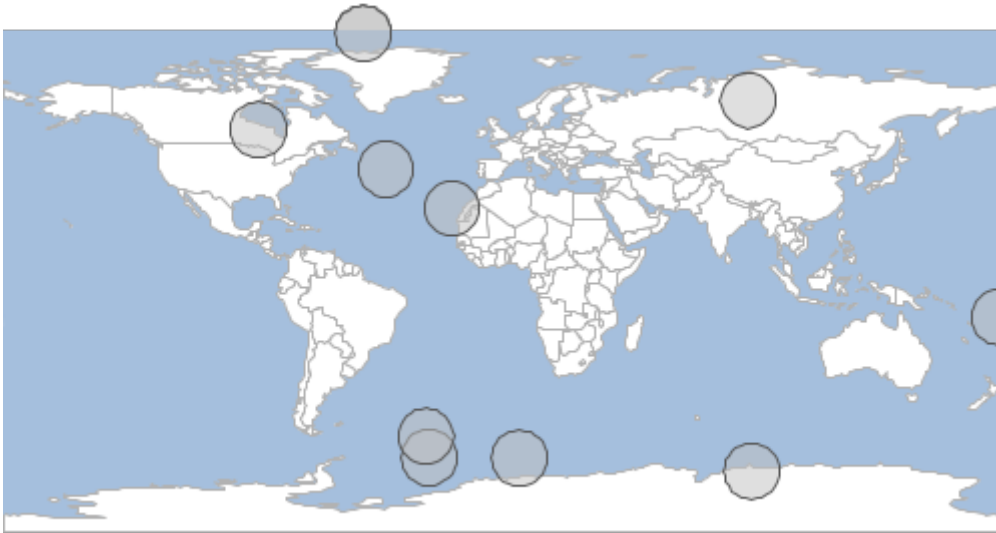
# Shell

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
```

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.

```
Last login: Wed Oct  5 18:18:54 on ttys002
[jericks@Jareds-MacBook-Pro-2 ~ % 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.

```
[geoc> vector c                                                              ]
centroid          contains          coordinates       create
clip              convexhull        copy
compareschemas    convexhulls       count
```

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

```
[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
```