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## Map Commands

### Map Layers

Map layer is a simple string format that allows you to pass in information about a map layer.

It can contain the following properties:

- **layertype** = The type of layer (layer, raster, tile)
  - For layer layertype, you can use the same key value pairs used to specify a Workspace.
  - For raster layertype, you specify a source=file key value pair.
  - For tile layertype, you use the same key value pairs used to specify a Tile layer.
- **layername** = The name of the Layer/Raster/Tile
- **layerprojection** = The Projection
- **style** = The SLD, CSS, or other style

Examples:

- **Vector Layer**
  - **layertype**=layer      **dbtype**=geopkg      **database**=/Users/user/Desktop/countries.gpkg  
    **layername**=countries **style**=/Users/user/Desktop/countries.sld
  - **layertype**=layer      **file**=/Users/user/Desktop/geoc/polygons.csv      **layername**=polygons  
    **style**=/Users/user/Desktop/geoc/polygons.sld
  - **layertype**=layer      **file**=/Users/user/Desktop/geoc/points.properties  
    **style**=/Users/user/Desktop/geoc/points.sld
  - **layertype**=layer **file**=/Users/user/Projects/geoc/src/test/resources/polygons.shp
  - **layertype**=layer      **directory**=/Users/user/Projects/geoc/src/test/resources/points.properties  
    **layername**=points
- **Raster**
  - **layertype**=raster **source**=rasters/earth.tif
- **Tile**
  - **layertype**=tile **file**=world.mbtiles
  - **layertype**=tile **type**=geopackage **file**=states.gpkg

# Draw

Draw a map.

| Short Name | Long Name          | Description            |
|------------|--------------------|------------------------|
| -l         | --layer            | The map layer          |
| -f         | --file             | The output image file  |
| -t         | --type             | The type of document   |
| -w         | --width            | The width              |
| -h         | --height           | The height             |
| -b         | --bounds           | The bounds             |
| -g         | --background-color | The background color   |
| -p         | --projection       | The projection         |
|            | --help             | Print the help message |
|            | --web-help         | Open help in a browser |

```
geoc map draw -l "layertype=layer file=src/test/resources/data.gpkg layertype=layer  
style=src/test/resources/ocean.sld" -l "layertype=layer  
file=src/test/resources/data.gpkg layertype=layer  
style=src/test/resources/countries.sld" -f target/map.png
```



## Map Cube

Draw a map cube.

| Short Name | Long Name      | Description                                 |
|------------|----------------|---|
| -l         | --layer        | The map layer                               |
| -f         | --file         | The output image file                       |
| -o         | --draw-outline | The flag to whether to draw outlines or not |
| -t         | --draw-tabs    | The flag to whether to draw tabs or not     |
| -s         | --tab-size     | The tab size                                |
| -i         | --title        | The title                                   |
| -c         | --source       | The data source or credits                  |
|            | --help         | Print the help message                      |
|            | --web-help     | Open help in a browser                      |

```
geoc map cube -l "layertype=layer file=src/test/resources/data.gpkg layertype=layer  
style=src/test/resources/ocean.sld" -l "layertype=layer  
file=src/test/resources/data.gpkg layertype=layer  
style=src/test/resources/countries.sld" -o -f target/cube.png
```



Draw a blank map cube.

```
geoc map cube -o -f target/cube_blank.png
```

