

Table of Contents

| | |
|-------------------------|---|
| Built in | 1 |
| Exit / Quit | 1 |
| Help | 1 |
| Run OS Command | 2 |
| Date | 2 |
| Script | 3 |
| System Properties | 3 |
| Version | 4 |
| Download | 4 |
| Unzip | 5 |
| Open | 6 |

Built in

Exit / Quit

Exits the shell

geo-shell> **exit**



No parameters

Help

List all commands usage

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------|----------------------------------|-----------|-------------------|---------------------|
| | Command name to provide help for | false | | |

View all commands

geo-shell> **help**

- * ! - Allows execution of operating system (OS) commands
- * // - Inline comment markers (start of line only)
- * ; - Inline comment markers (start of line only)
- * clear - Clears the console
- * cls - Clears the console
- * date - Displays the local date and time
- * download - Download a URL to a file.
- * exit - Exits the shell
- * format close - Close a Raster Format.
- * format list - List open Raster Formats.

Get help for a command

geo-shell> **help layer open**

Keyword: layer open

Description: Open a Layer.

Keyword: workspace

Help: The Workspace name

Mandatory: true

Default if specified: 'NULL'

Default if unspecified: 'NULL'

Keyword: layer

Help: The Layer name

Mandatory: true
Default if specified: 'NULL'
Default if unspecified: 'NULL'

Keyword: name
Help: The name
Mandatory: false
Default if specified: 'NULL'
Default if unspecified: 'NULL'

* layer open - Open a Layer.

Run OS Command

Allows execution of operating system (OS) commands

geo-shell> ! ls src/test/resources/mars

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------|------------------------|-----------|-------------------|---------------------|
| | The command to execute | false | | |

geo-shell> ! ls src/test/resources/mars

geo_units_oc_dd.dbf
geo_units_oc_dd.prj
geo_units_oc_dd.qix
geo_units_oc_dd.sbn
geo_units_oc_dd.sbx
geo_units_oc_dd.shp
geo_units_oc_dd.shp.xml
geo_units_oc_dd.shx
I1802ABC_geo_units_RGBlut.txt

Date

Displays the local date and time

geo-shell> **date**



No parameters

geo-shell> **date**

Thursday, February 20, 2020 4:40:38 AM UTC

Script

Parses the specified resource file and executes its commands

geo-shell> **script src/test/resources/layer_count.txt**

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|-------------|--|-----------|-------------------|---------------------|
| | The file to locate and execute | true | | |
| lineNumbers | Display line numbers when executing the script | false | true | false |

```
workspace open --name naturalearth --params src/test/resources/naturalearth.gpkg  
  
layer open --workspace naturalearth --layer countries --name countries  
  
layer count --name countries  
  
workspace close --name naturalearth
```

geo-shell> **script src/test/resources/layer_count.txt**

Workspace naturalearth opened!

Opened Workspace naturalearth Layer countries as countries

177

Workspace naturalearth closed!

System Properties

Shows the shell's properties

geo-shell> **system properties**



No parameters

geo-shell> **system properties**

```
awt.toolkit = sun.awt.X11.XToolkit  
basedir = /home/travis/build/jericks/geo-shell  
file.encoding = UTF-8  
file.encoding.pkg = sun.io  
file.separator = /
```

Version

Displays shell version



No parameters

```
geo-shell> version
```

0.7-SNAPSHOT

Download

Download a URL to a file.

```
geo-shell> download --url https://astropedia.astrogeology.usgs.gov/download/Mars/Geology/Mars15MGeologicGISRenovation.zip --file mars.zip --overwrite false
```

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|-----------|--------------------------------------|-----------|-------------------|---------------------|
| url | The url | true | | |
| file | The file | true | | |
| overwrite | Whether to overwrite the file or not | false | true | true |

```
geo-shell> download --url https://astropedia.astrogeology.usgs.gov/download/Mars/Geology/Mars15MGeologicGISRenovation.zip --file mars.zip --overwrite false
```

Downloading <https://astropedia.astrogeology.usgs.gov/download/Mars/Geology/Mars15MGeologicGISRenovation.zip> to /Users/jericks/Projects/geo-shell/mars.zip...

```
geo-shell> unzip --file mars.zip --directory mars
```

Unzipping /Users/jericks/Projects/geo-shell/mars.zip to /Users/jericks/Projects/geo-shell/mars

```
geo-shell> style vector uniquevaluesfromtext --field UnitSymbol --geometryType Polygon --styleFile mars/units.sld --textFile
```

mars/I1802ABC_Mars_global_geology/I1802ABC_geo_units_RGBlut.txt

Create a unique values style from /Users/jericks/Projects/geo-shell/mars/I1802ABC_Mars_global_geology/I1802ABC_geo_units_RGBlut.txt for UnitSymbol and Polygon to /Users/jericks/Projects/geo-shell/mars/units.sld

```
geo-shell> workspace open --name mars --params
```

mars/I1802ABC_Mars_global_geology/Shapefiles/I1802ABC_Mars2000_Sphere/geo_units_oc_dd.shp

Workspace mars opened!

```
geo-shell> layer open --workspace mars --layer geo_units_oc_dd
```

Opened Workspace mars Layer geo_units_oc_dd as mars:geo_units_oc_dd

```
geo-shell> layer style set --name mars:geo_units_oc_dd --style mars/units.sld
```

Style /Users/jericks/Projects/geo-shell/mars/units.sld set on mars:geo_units_oc_dd

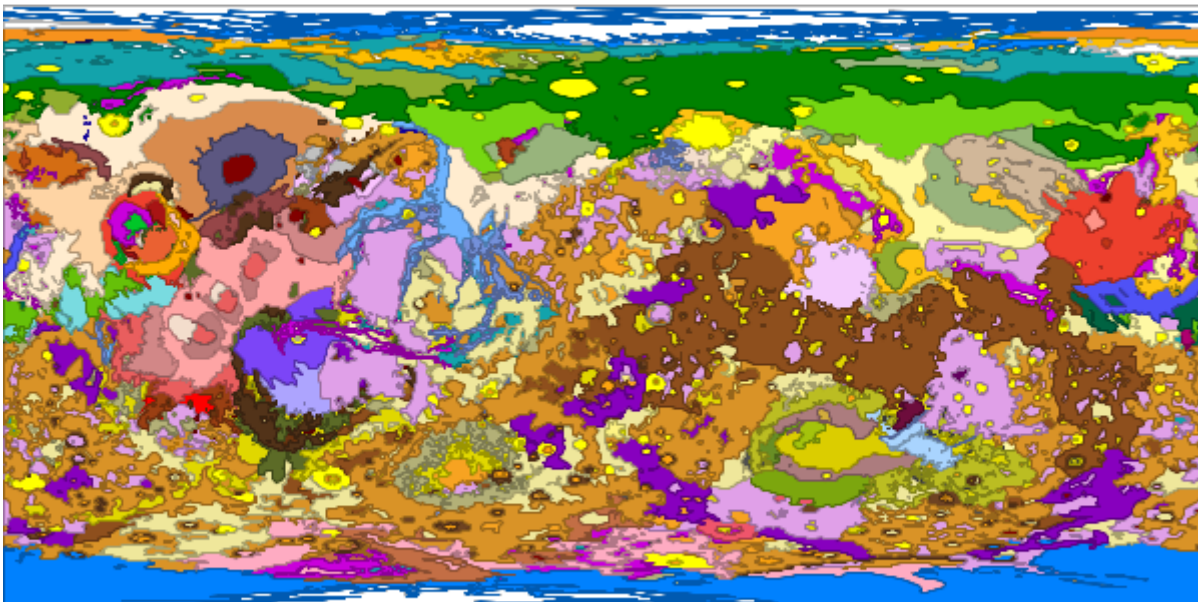
```
geo-shell> map open --name mars
Map mars opened!
```

```
geo-shell> map add layer --name mars --layer mars:geo_units_oc_dd
Added mars:geo_units_oc_dd layer to map mars
```

```
geo-shell> map draw --name mars
Done drawing /Users/jericks/Projects/geo-shell/image.png!
```

```
geo-shell> map close --name mars
Map mars closed!
```

```
geo-shell> open --file image.png
Opening /Users/jericks/Projects/geo-shell/image.png...
```



Unzip

Unzip a file

```
geo-shell> unzip --file mars.zip --directory mars
```

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|-----------|---------------|-----------|-------------------|---------------------|
| file | The zip file | true | | |
| directory | The directory | true | | |

```
geo-shell> unzip --file mars.zip --directory mars
```

Unzipping /Users/jericks/Projects/geo-shell/mars.zip to /Users/jericks/Projects/geo-shell/mars

Open

Open a File.

```
geo-shell> open --file image.png
```

| Name | Description | Mandatory | Specified Default | Unspecified Default |
|------|-------------|-----------|-------------------|---------------------|
| file | The File | true | | |

```
geo-shell> open --file image.png
```

Opening /Users/jericks/Projects/geo-shell/image.png...