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# 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

I1802ABC\_geo\_units\_RGBlut.txt  
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

## Date

Displays the local date and time

geo-shell> **date**



No parameters

geo-shell> **date**

Friday, January 1, 2021 10:06:06 PM 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/runner/work/geo-shell/geo-shell

file.encoding = UTF-8

file.encoding.pkg = sun.io

file.separator = /

# Version

Displays shell version



No parameters

```
geo-shell> version
```

0.9.0-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

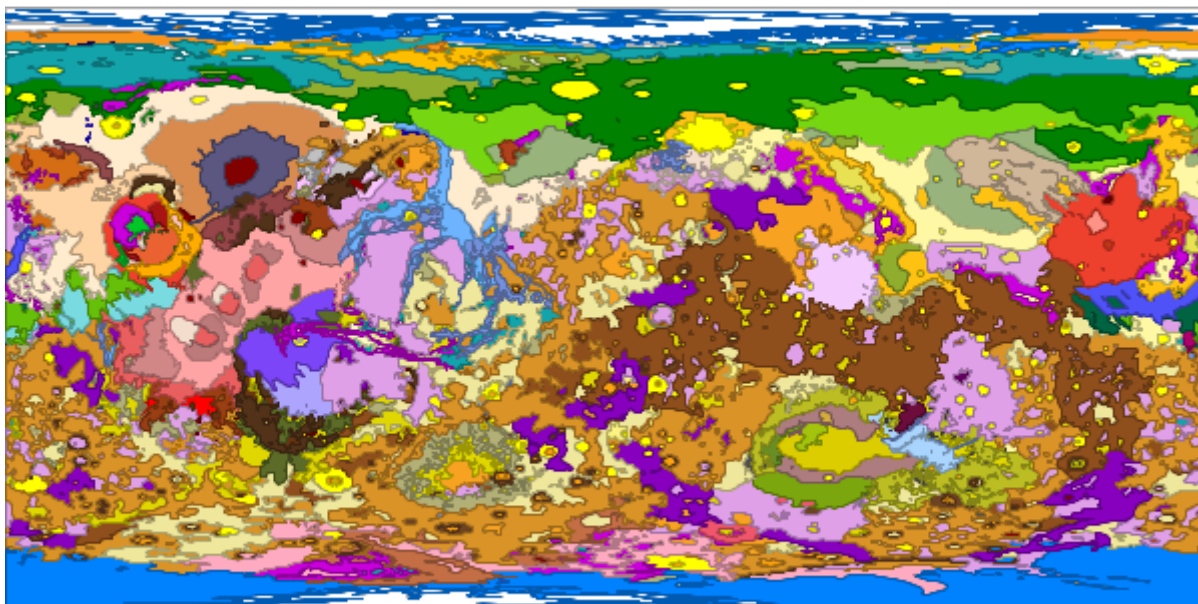
```
geo-shell> map open --name mars
Map mars opened!
```

```
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...