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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**

Wednesday, November 9, 2022 at 4:47:49 PM Coordinated Universal Time

## 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.separator = /
java.awt.graphicsenv = sun.awt.X11GraphicsEnvironment
```

## Version

Displays shell version



No parameters

geo-shell> **version**

0.12.0-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...
```