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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

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, January 16, 2020 1:49:01 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 = /  
java.awt.graphicsenv = sun.awt.X11GraphicsEnvironment  
java.awt.printerjob = sun.print.PSPrinterJob
```

```

java.class.path = /home/travis/build/jericks/geo-shell/target/test-
classes:/home/travis/build/jericks/geo-
shell/target/classes:/home/travis/.m2/repository/org/geoscript/geoscript-groovy/1.15-
SNAPSHOT/geoscript-groovy-1.15-SNAPSHOT.jar:/home/travis/.m2/repository/com/wdtinc/mapbox-
vector-tile/3.0.0/mapbox-vector-tile-3.0.0.jar:/home/travis/.m2/repository/org/slf4j/slf4j-
api/1.7.25/slf4j-api-1.7.25.jar:/home/travis/.m2/repository/org/geotools/gt-main/23-SNAPSHOT/gt-
main-23-SNAPSHOT.jar:/home/travis/.m2/repository/org/geotools/gt-referencing/23-SNAPSHOT/gt-
referencing-23-SNAPSHOT.jar:/home/travis/.m2/repository/org/ejml/ejml-ddense/0.34/ejml-ddense-
0.34.jar:/home/travis/.m2/repository/org/ejml/ejml-core/0.34/ejml-core-
0.34.jar:/home/travis/.m2/repository/commons-pool/commons-pool/1.5.4/commons-pool-
1.5.4.jar:/home/travis/.m2/repository/jgridshift/jgridshift-core/1.2/jgridshift-core-
1.2.jar:/home/travis/.m2/repository/javax/javaee-api/7.0/javaee-api-
7.0.jar:/home/travis/.m2/repository/com/sun/mail/javax.mail/1.5.0/javax.mail-
1.5.0.jar:/home/travis/.m2/repository/javax/activation/activation/1.1/activation-
1.1.jar:/home/travis/.m2/repository/net/sf/geographiclib/GeographicLib-Java/1.49/GeographicLib-
Java-1.49.jar:/home/travis/.m2/repository/org/locationtech/jts/jts-core/1.16.1/jts-core-
1.16.1.jar:/home/travis/.m2/repository/org/apache/commons/commons-text/1.6/commons-text-
1.6.jar:/home/travis/.m2/repository/com/fasterxml/jackson/core/jackson-core/2.10.1/jackson-core-
2.10.1.jar:/home/travis/.m2/repository/javax/media/jai_core/1.1.3/jai_core-
1.1.3.jar:/home/travis/.m2/repository/org/geotools/gt-epsg-hsql/23-SNAPSHOT/gt-epsg-hsql-23-
SNAPSHOT.jar:/home/travis/.m2/repository/org/hsqldb/hsqldb/2.4.1/hsqldb-
2.4.1.jar:/home/travis/.m2/repository/org/geotools/gt-epsg-extension/23-SNAPSHOT/gt-epsg-
extension-23-SNAPSHOT.jar:/home/travis/.m2/repository/org/geotools/gt-render/23-SNAPSHOT/gt-
render-23-SNAPSHOT.jar:/home/travis/.m2/repository/org/geotools/gt-coverage/23-SNAPSHOT/gt-
coverage-23-SNAPSHOT.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/affine/jt-
affine/1.1.12/jt-affine-1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/algebra/jt-
algebra/1.1.12/jt-algebra-1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/bandmerge/jt-
bandmerge/1.1.12/jt-bandmerge-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/bandselect/jt-bandselect/1.1.12/jt-
bandselect-1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/bandcombine/jt-
bandcombine/1.1.12/jt-bandcombine-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/border/jt-border/1.1.12/jt-border-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/buffer/jt-buffer/1.1.12/jt-buffer-
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1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/lookup/jt-lookup/1.1.12/jt-lookup-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/mosaic/jt-mosaic/1.1.12/jt-mosaic-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/nullop/jt-nullop/1.1.12/jt-nullop-
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1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/scale/jt-scale/1.1.12/jt-scale-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/scale2/jt-scale2/1.1.12/jt-scale2-
1.1.12.jar:/home/travis/.m2/repository/org/huldra/math/bigint/0.7.1/bigint-
0.7.1.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/stats/jt-stats/1.1.12/jt-stats-
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1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/binarize/jt-binarize/1.1.12/jt-binarize-

```

1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/format/jt-format/1.1.12/jt-format-  
 1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/colorconvert/jt-colorconvert/1.1.12/jt-  
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1.0.jar:/home/travis/.m2/repository/org/springframework/spring-expression/4.2.4.RELEASE/spring-
expression-4.2.4.RELEASE.jar:/home/travis/.m2/repository/commons-io/commons-io/2.4/commons-
io-2.4.jar:/home/travis/.m2/repository/org/springframework/spring-core/4.2.4.RELEASE/spring-core-
4.2.4.RELEASE.jar:/home/travis/.m2/repository/commons-logging/commons-logging/1.2/commons-
logging-1.2.jar:/home/travis/.m2/repository/junit/junit/4.12/junit-
4.12.jar:/home/travis/.m2/repository/org/hamcrest/hamcrest-core/1.3/hamcrest-core-1.3.jar:
java.class.version = 52.0
java.endorsed.dirs = /usr/lib/jvm/java-8-oracle/jre/lib/endorsed

```

## 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
```

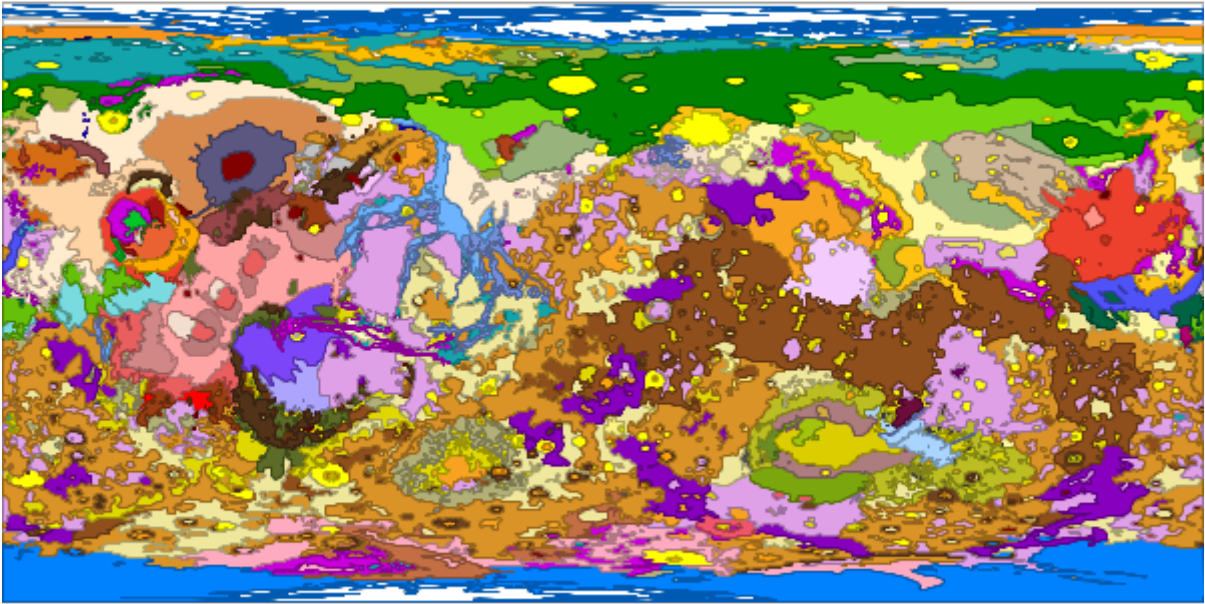
```
geo-shell> map open --name mars
Map mars opened!
```

```
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...
```