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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 23, 2020 4:39:13 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-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/crop/jt-crop/1.1.12/jt-crop-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/iterators/jt-iterators/1.1.12/jt-iterators-
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-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/rescale/jt-rescale/1.1.12/jt-rescale-
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-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/translate/jt-translate/1.1.12/jt-translate-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/utilities/jt-utilities/1.1.12/jt-utilities-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/warp/jt-warp/1.1.12/jt-warp-
1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/zonal/jt-zonal/1.1.12/jt-zonal-
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-
 colorconvert-1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/errordiffusion/jt-
 errordiffusion/1.1.12/jt-errordiffusion-
 1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/orderdither/jt-orderdither/1.1.12/jt-
 orderdither-1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/colorindexer/jt-
 colorindexer/1.1.12/jt-colorindexer-
 1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/imagefunction/jt-
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 1.1.12.jar:/home/travis/.m2/repository/it/geosolutions/jaiext/piecewise/jt-piecewise/1.1.12/jt-
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aop/4.2.4.RELEASE/spring-aop-
4.2.4.RELEASE.jar:/home/travis/.m2/repository/aopalliance/aopalliance/1.0/aopalliance-
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
```

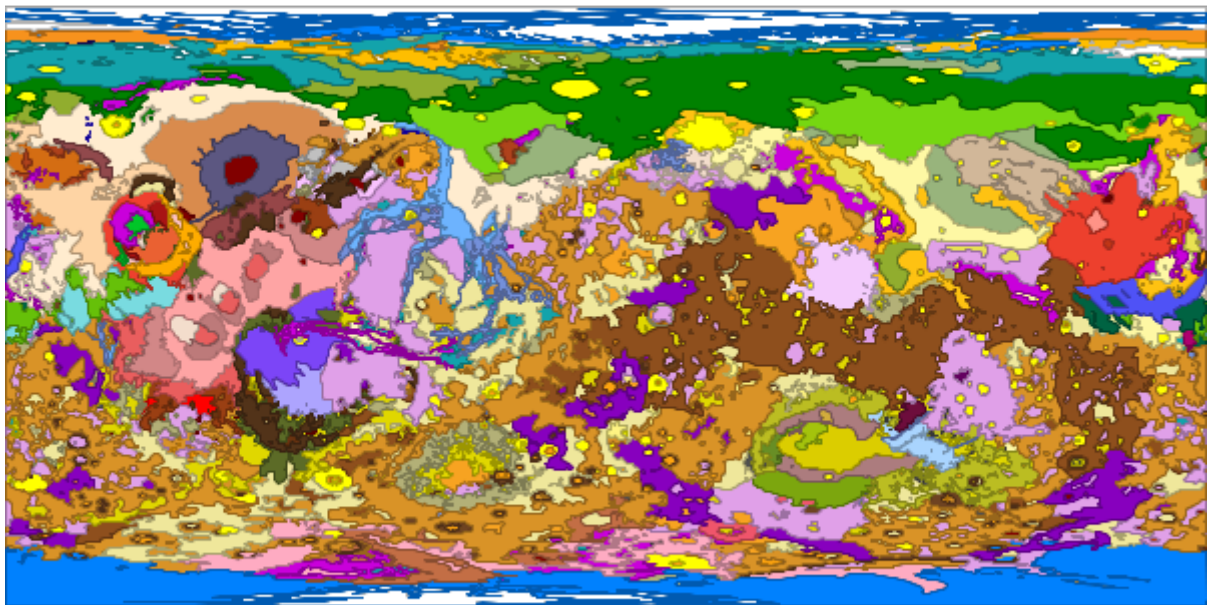
```
geo-shell> map open --name mars
Map mars opened!
```

```
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...