Table of Contents

WMS Recipes .	 	 	 	
WWW Recipes.	 	 	 	

WMS Recipes

The WMS classes are in the **geoscript.layer** package.

Connect to a WMS Server and list properties

```
WMS wms = new WMS("https://lpdaacsvc.cr.usgs.gov/ogc/wms")
println "Name = ${wms.name}"
println "Title = ${wms.title}"
println "Abstract = ${wms.abstract}"
println "Keywords = ${wms.keywords.join(', ')}"
println "Online Resource = ${wms.onlineResource}"
println "Update Sequence = ${wms.updateSequence}"
println "Version = ${wms.version}"
println "Map Formats = ${wms.getMapFormats.join(', ')}"
```

```
Name = WMS

Title = GeoServer Web Map Service

Abstract = A compliant implementation of WMS plus most of the SLD extension (dynamic styling). Can also generate PDF, SVG, KML, GeoRSS

Keywords = WFS, WMS, GEOSERVER

Online Resource = http://geoserver.sourceforge.net/html/index.php

Update Sequence = 35327

Version = 1.3.0

Map Formats = image/png, application/atom+xml, application/pdf, application/rss+xml, application/vnd.google-earth.kml+xml; mode=networklink, application/vnd.google-earth.kmz, image/geotiff, image/geotiff8, image/gif, image/jpeg, image/png; mode=8bit, image/svg+xml, image/tiff, image/tiff8, text/html; subtype=openlayers
```

Get a list of Layers

```
WMS wms = new WMS("https://lpdaacsvc.cr.usgs.gov/ogc/wms")
wms.layers.subList(0,10).each { WMS.Layer layer ->
    println layer
}
```

```
MODIS:MCD12Q1.2016001.006.LandCover
MODIS:MOD09A1.2018073.006.SurRefl
MODIS:MOD09A1.2018081.006.SurRefl
MODIS:MOD09A1.2018089.006.SurRefl
MODIS:MOD09A1.2018097.006.SurRefl
MODIS:MOD09A1.2018105.006.SurRefl
MODIS:MOD09A1.2018113.006.SurRefl
MODIS:MOD09A1.2018121.006.SurRefl
MODIS:MOD09A1.2018121.006.SurRefl
MODIS:MOD09A1.2018127.006.SurRefl
```

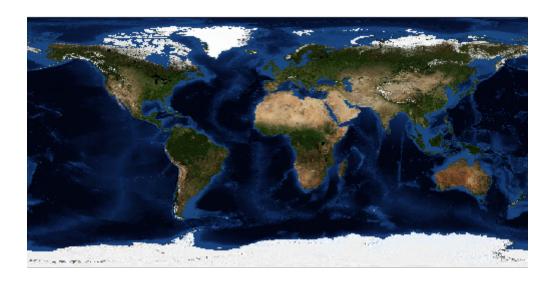
Get a Layer

```
WMS wms = new WMS("https://lpdaacsvc.cr.usgs.gov/ogc/wms")
WMS.Layer layer = wms.getLayer("MODIS:MODO9A1.2018185.006.SurRefl")
println "Name = ${layer.name}"
println "Title = ${layer.title}"
println "Bounds = ${layer.bounds}"
println "Lat/Lon Bounds = ${layer.latLonBounds}"
println "Queryable = ${layer.queryable}"
println "Min Scale = ${layer.minScale}"
println "Max Scale = ${layer.maxScale}"
```

```
Name = MODIS:MOD09A1.2018185.006.SurRefl
Title = MOD09A1.2018185.006.SurRefl
Bounds = [(-90.00000143999999, -180.0,90.0,180.00000287999998,EPSG:4326), (-180.0,-90.00000143999999,180.00000287999998,90.0,EPSG:4326)]
Lat/Lon Bounds = (-180.0,-90.00000143999999,180.00000287999998,90.0,EPSG:4326)
Queryable = true
Min Scale = NaN
Max Scale = NaN
```

Get a Raster

```
WMS wms = new WMS("https://lpdaacsvc.cr.usgs.gov/ogc/wms")
Raster raster = wms.getRaster(["MODIS:MOD14A2.2018209.006.Fire"])
```



Get an Image

```
WMS wms = new WMS("https://lpdaacsvc.cr.usgs.gov/ogc/wms")
BufferedImage image = wms.getImage(["MODIS:MOD17A2H.2019041.006.GPP"])
```

