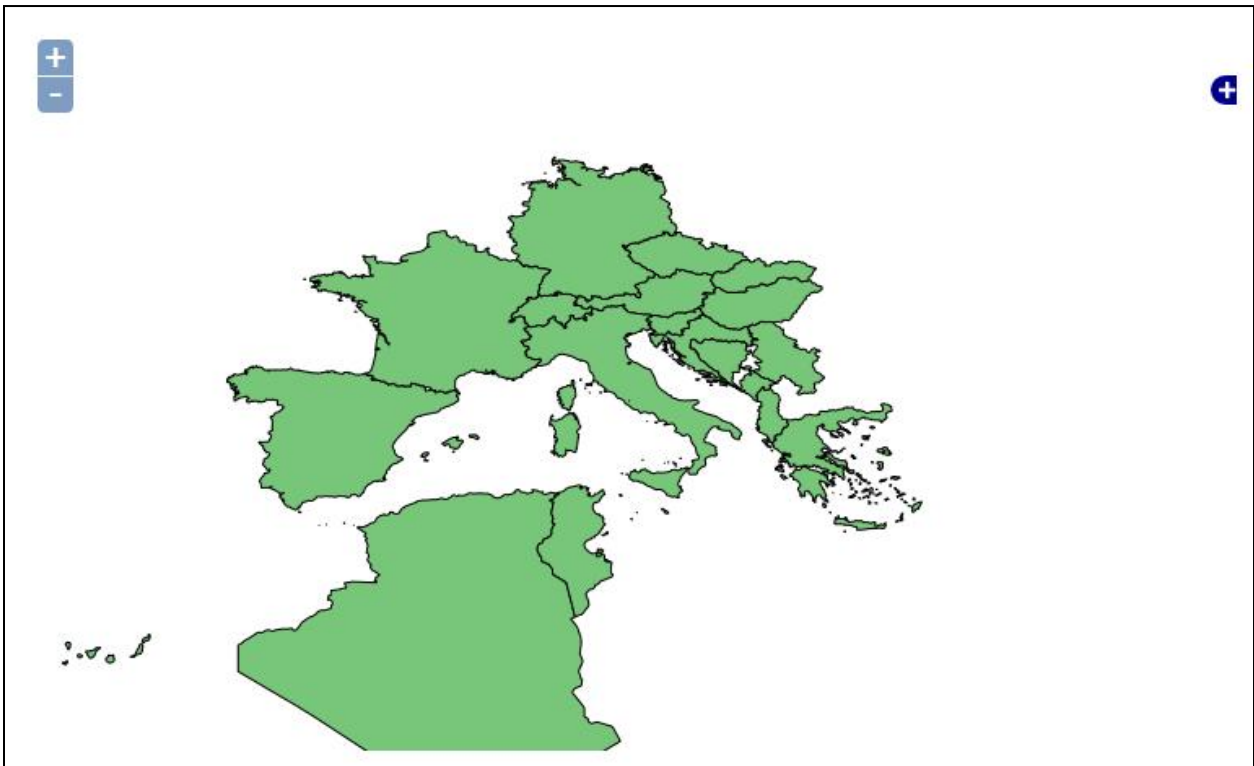
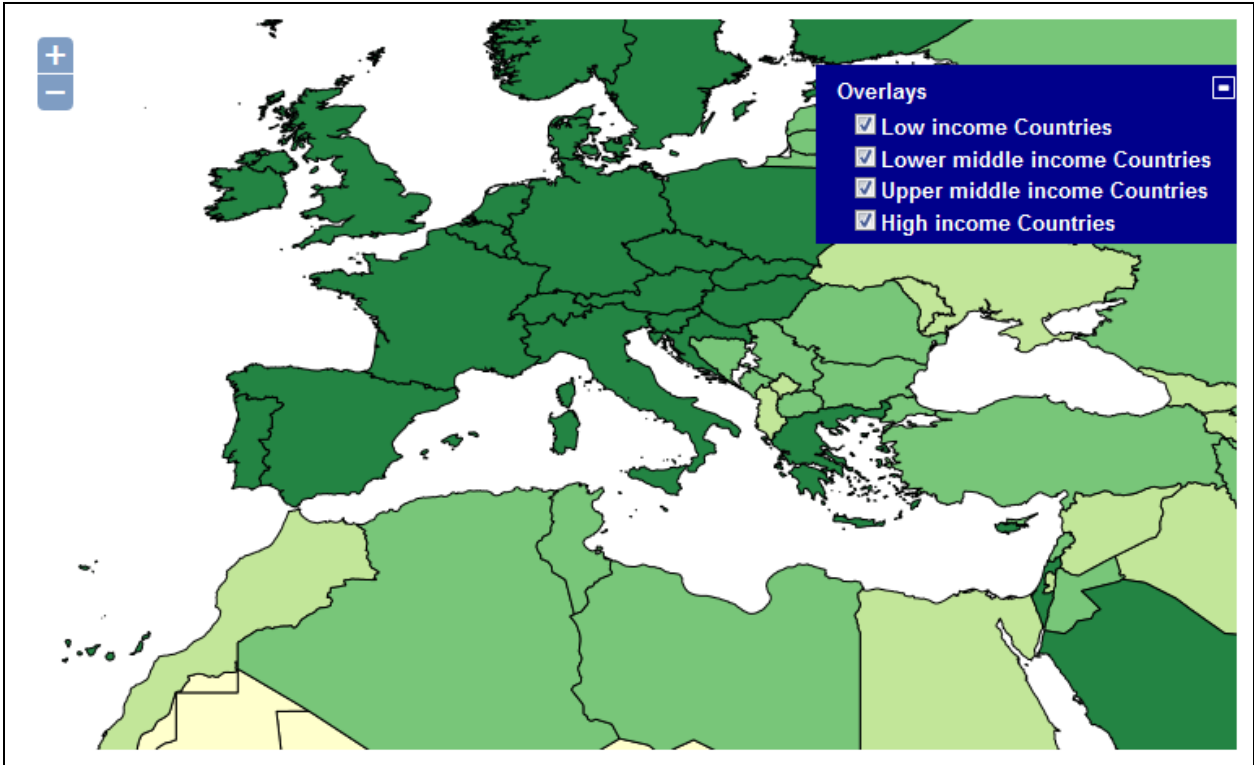


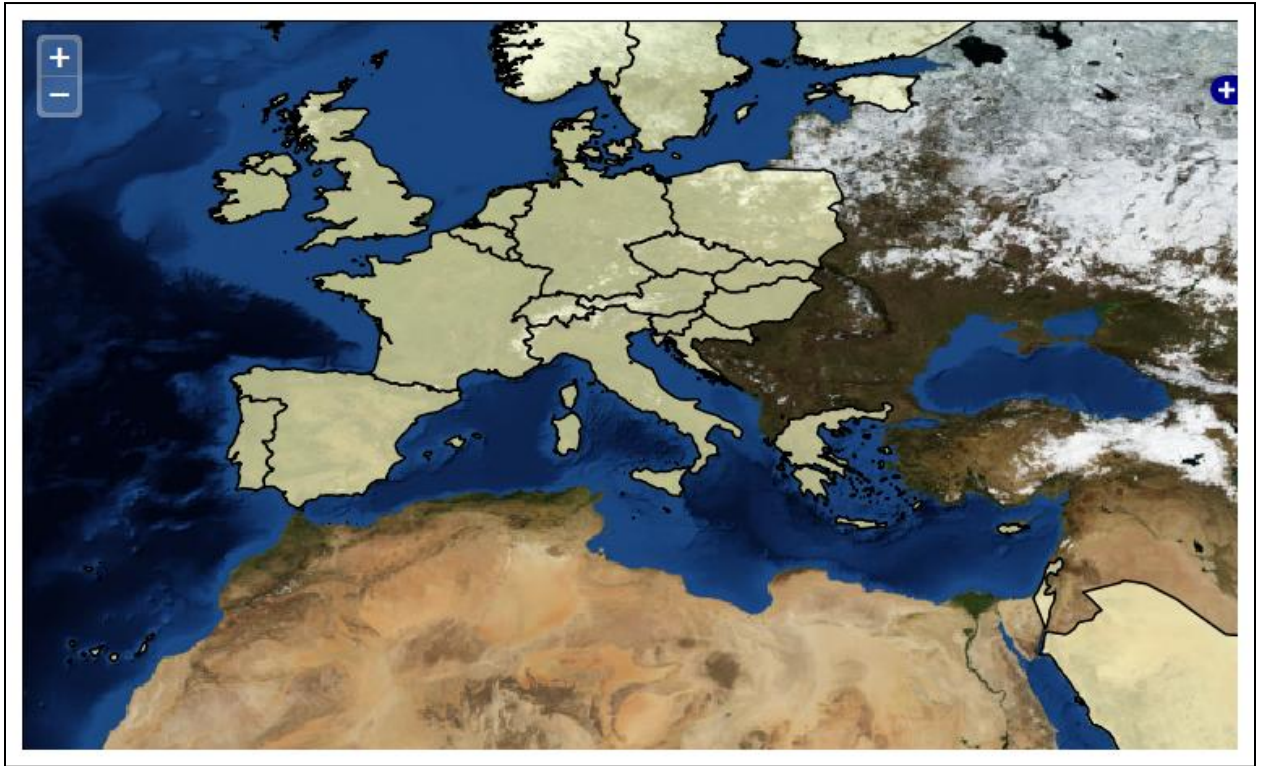
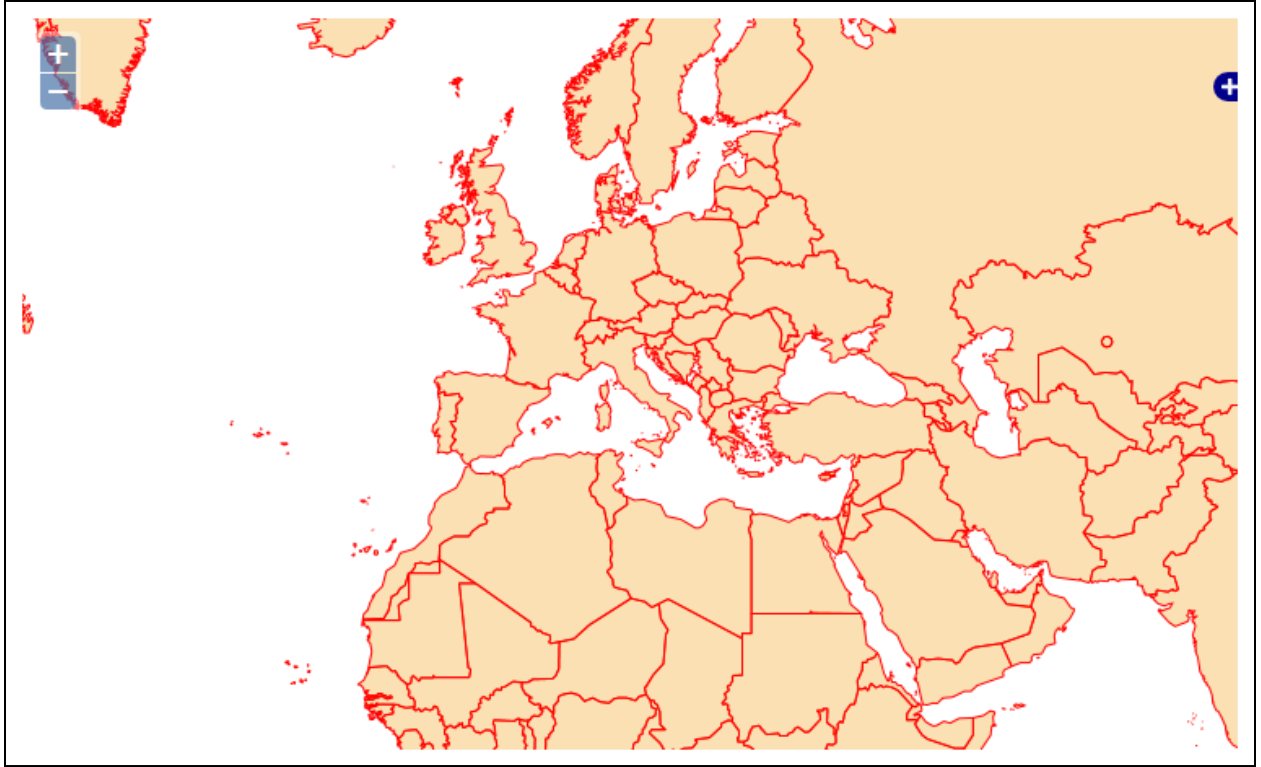
GeoServer Cookbook

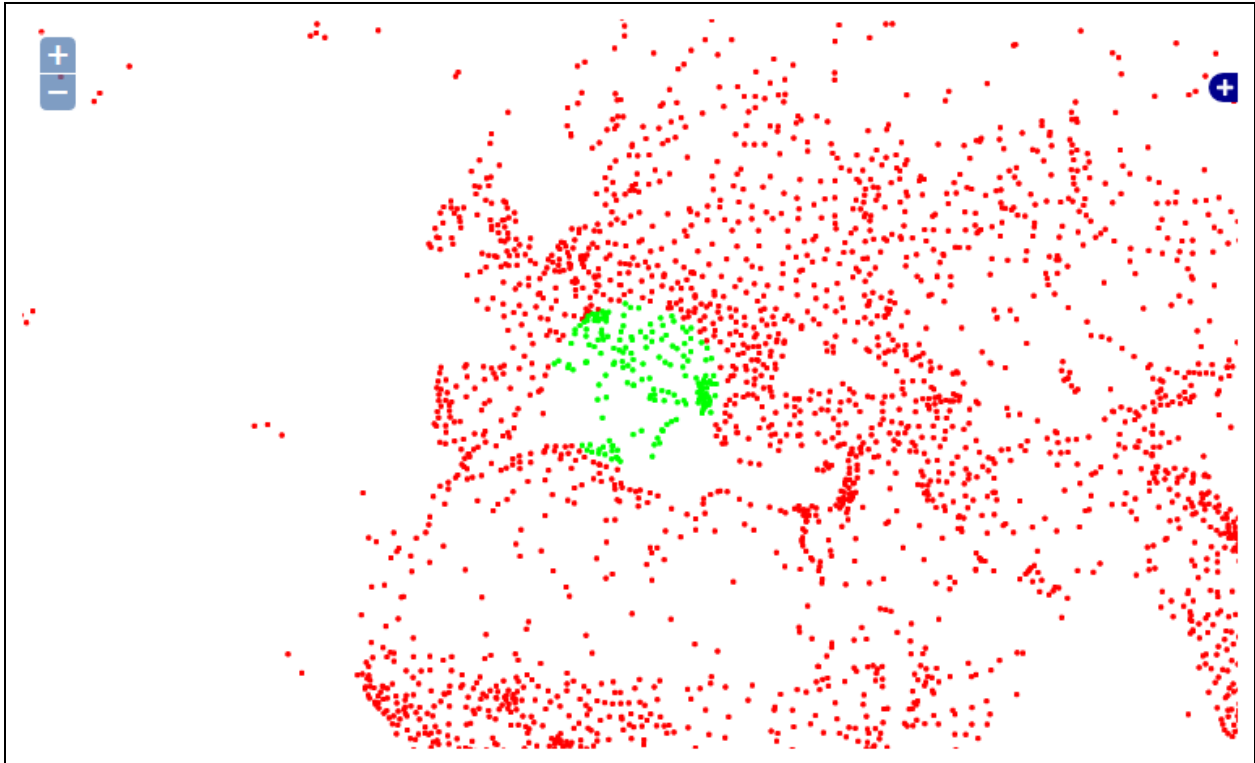
Chapter 1: Working with Vectors



```
POST wfs 200 OK ubuntu1204x64vm:8080 3,3 MB 192.168.150.11:8080 13,8
Intestazioni Post Risposta XML Cache Cookie
XML
<wfs:GetFeature xmlns:wfs="http://www.opengis.net/wfs" service="WFS" version="1.0.0" xsi:schemaLocation="http://www.opengis.net/wfs http://schemas.opengis.net/wfs/1.0.0/WFS-transaction.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <wfs:Query typeName="feature:countries" xmlns:feature="http://www.naturalearthdata.com/">
    <ogc:Filter xmlns:ogc="http://www.opengis.net/ogc">
      <ogc:BBOX>
        <ogc:PropertyName>geom</ogc:PropertyName>
        <gml:Box xmlns:gml="http://www.opengis.net/gml" srsName="EPSG:4326">
          <gml:coordinates decimal="." cs="," ts=" " >-53.43796875,3.04921875
            78.39796875,82.15078125</gml:coordinates>
        </gml:Box>
      </ogc:BBOX>
    </ogc:Filter>
  </wfs:Query>
</wfs:GetFeature>
```







Layers

Manage the layers being published by GeoServer

- + Add a new resource
- Remove selected resources

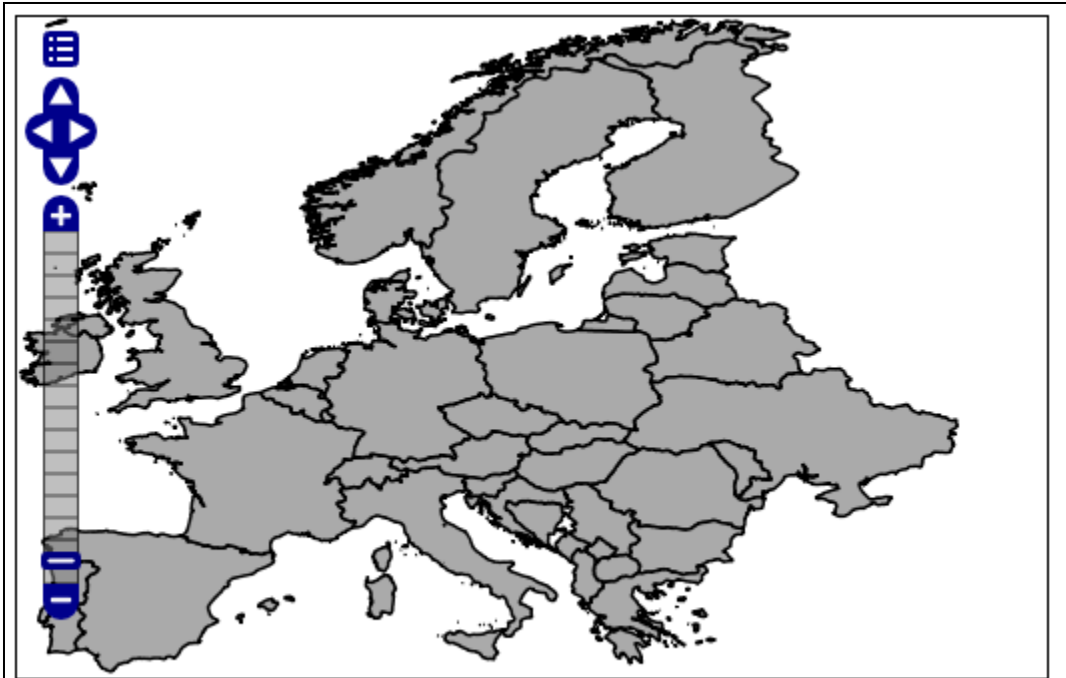
Add layer from NaturalEarth:PostGISLocal ▾

You can create a new feature type by manually configuring the attribute names and types. [Create new feature type...](#)
 On databases you can also create a new feature type by configuring a native SQL statement. [Configure new SQL view...](#)
 Here is a list of resources contained in the store 'PostGISLocal'. Click on the layer you wish to configure

Attributes

[Refresh](#) Guess geometry type and srid

Name	Type	SRID
admin	String	
geom	MultiPolygon ▾	<input type="text" value="4326"/>



Scale = 1 : 43M

10.73966, 48.01890

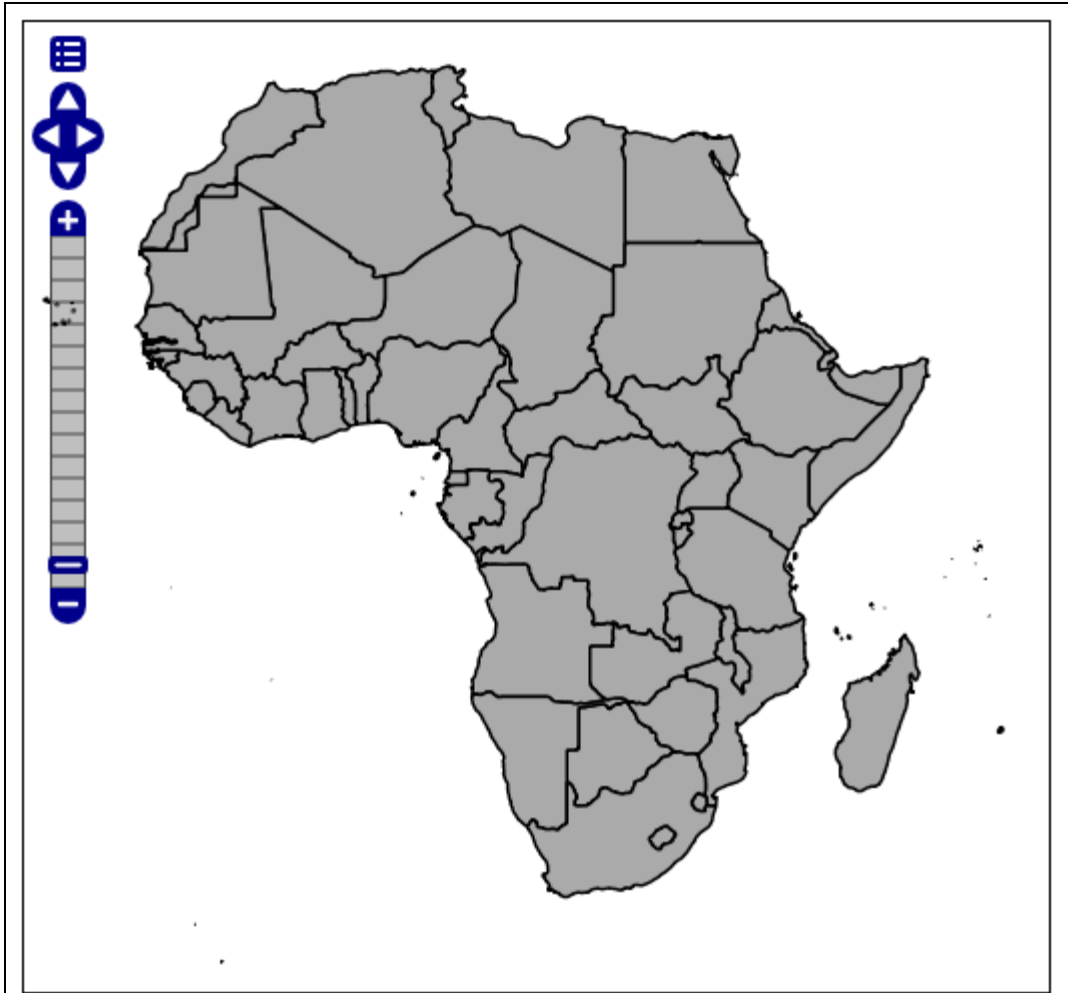
Click on the map to get feature info

SQL view parameters

[Guess parameters from SQL](#) [Add new parameter](#) [Remove selected](#)

<input type="checkbox"/> Name	Default value
<input type="checkbox"/> continent	Africa

Escape special SQL characters



Scale = 1 : 69M

4.31554, 17.02498

Click on the map to get feature info



Vector Data Sources

- Directory of spatial files (shapefiles) - Takes a directory of shapefiles and exposes it as a data store
- Generalizing data store - Data store supporting generalized geometries
- PostGIS - PostGIS Database
- PostGIS (JNDI) - PostGIS Database (JNDI)

Connection Parameters

RepositoryClassName *

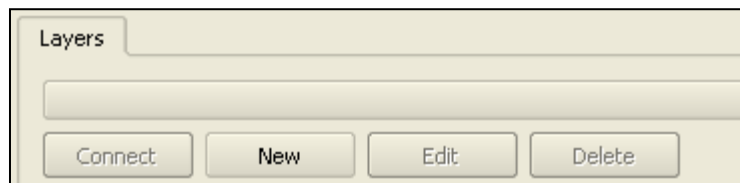
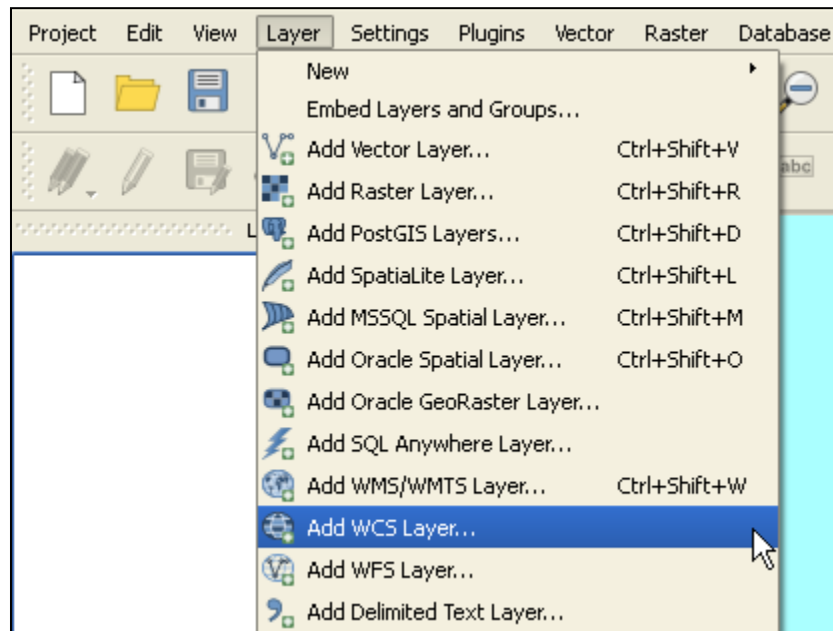
GeneralizationInfosProviderClassName *

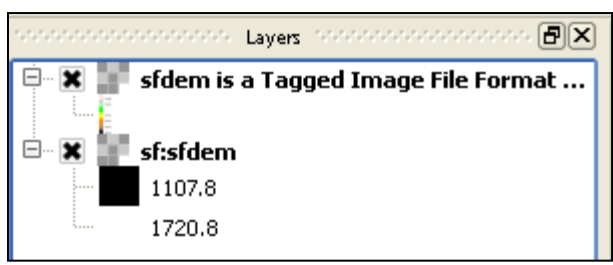
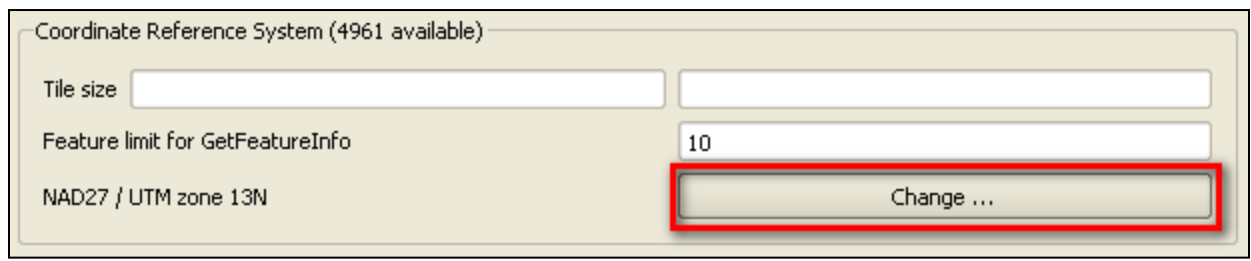
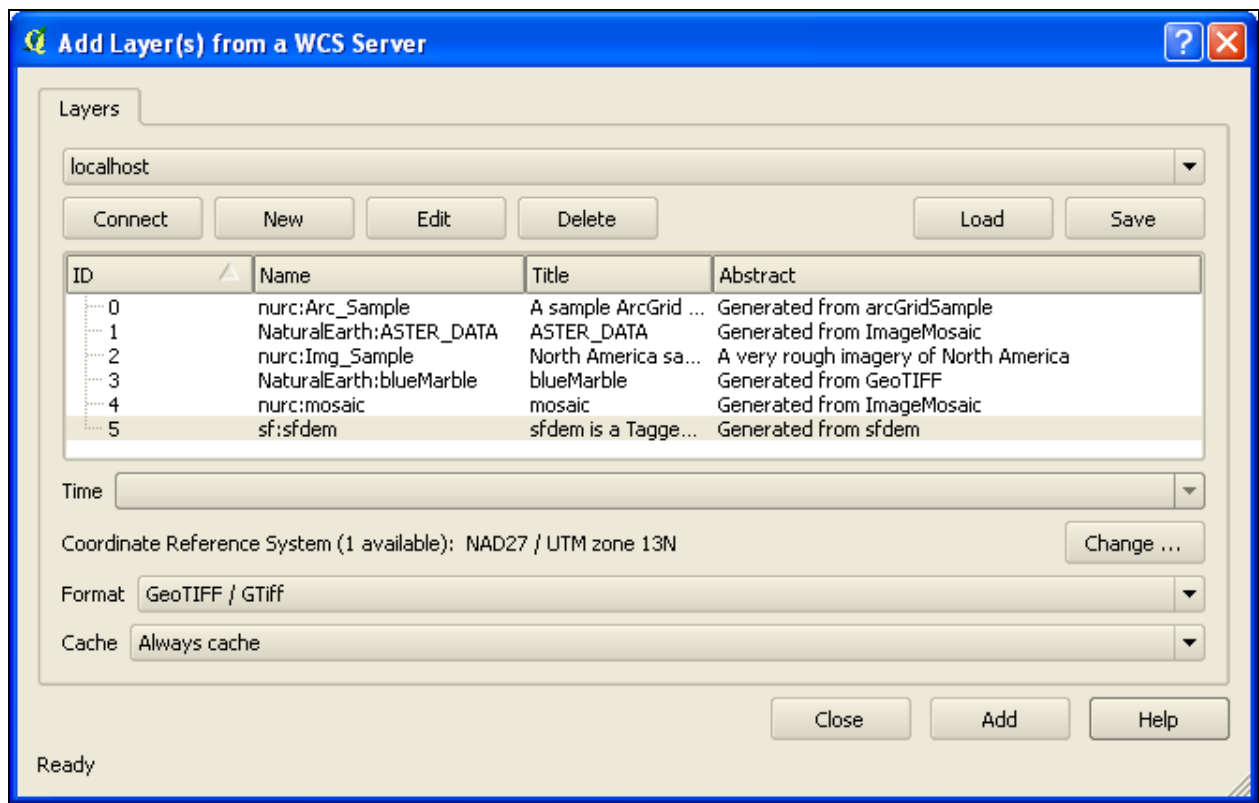
GeneralizationInfosProviderParam

Namespace *

<http://www.naturalearthdata.com/>

Chapter 2: Working with Rasters





Output mode Raw data Rendered image

Format: GTiff Create VRT

Save as: /opt/test/WMS.tiff

CRS: Layer (WGS 84, EPSG:4326)

▶ Extent (current: layer) _____

▶ Resolution (current: layer) _____

Time: _____

Coordinate Reference System (1 available): NAD27 / UTM zone 13N

Format: GeoTIFF / GTiff

Cache: **GeoTIFF / GTiff**
 ARCGRID
 GIF / BIGGIF
 GTOPO30
 IMAGEMOSAIC
 JPEG
 PNG
 TIFF / GTiff

Ready

Formats

Native Format

Supported Formats

Available Formats	Selected Formats
	ARCGRID IMAGEMOSAIC GTOPO30 GEOTIFF GIF PNG JPEG TIFF

Search Criteria | Data Sets | Additional Criteria | Results

1. Enter Search Criteria

To narrow your search area, type in an address or place name, enter coordinates or click the map to define your search area (for advanced map tools, view the [help documentation](#)), and/or choose a date range.

Address/Place | Path/Row | Feature | Circle

Show Clear

Coordinates | Predefined Area | Shapefile | KML

Degree/Minute/Second | Decimal

- Lat: 44° 07' 08" N, Lon: 009° 39' 25" E
- Lat: 43° 26' 41" N, Lon: 010° 16' 59" E
- Lat: 42° 55' 27" N, Lon: 010° 25' 04" E
- Lat: 41° 38' 24" N, Lon: 012° 07' 44" E
- Lat: 40° 20' 47" N, Lon: 014° 35' 23" E
- Lat: 41° 32' 29" N, Lon: 016° 20' 51" E
- Lat: 44° 49' 28" N, Lon: 012° 40' 01" E

Use Map | Add Coordinate | Clear Coordinates

Date Range | Result Options

Search from: 01/01/1920 to: 07/16/2014

Search months: (all)

Data Sets > | Additional Criteria > | Results >

Search Criteria Summary (Show) | Clear Criteria

43° 35' 15" N, 017° 21' 30" E

The up-to-date Google map is not for purchase or for download; it is to be used as a guide for reference and search purposes only.

Digital Elevation

- ASTER GLOBAL DEM
- GMTED2010
- GTOPO30
- SRTM
- SRTM Void Filled
- SRTM Water Body Data

1

Entity ID: ASTGDENV2_ON40E015
Acquisition Date: 17-OCT-11
Coordinates: 40.5 , 15.5

Map | Layers | Search | Home | Refresh | Stop

Bulk Download | Clear All

Note: Data sets may contain items with multiple product options. Expand a data set to view your list of ordered scenes including metadata and product options.

▼ **ASTER GLOBAL DEM (10)**

Save Changes | Proceed To Checkout >>

ImageMosaic
Image mosaicking plugin

Basic Store Info

Workspace *
NaturalEarth

Data Source Name *
ASTER_Mosaic

Description
An auto generated mosaic of ASTER data

Enabled

Connection Parameters

URL *
file:///opt/ASTER_DATA [Browse...](#)

[Save](#) [Cancel](#)

<< < 1 > >> Results 1 to 1 (out of 1 items)

Published	Layer name	Action
	ASTER_DATA	Publish

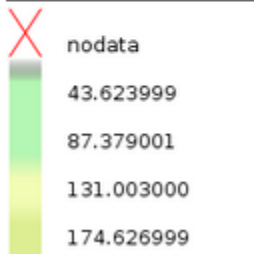
<< < 1 > >> Results 1 to 1 (out of 1 items)

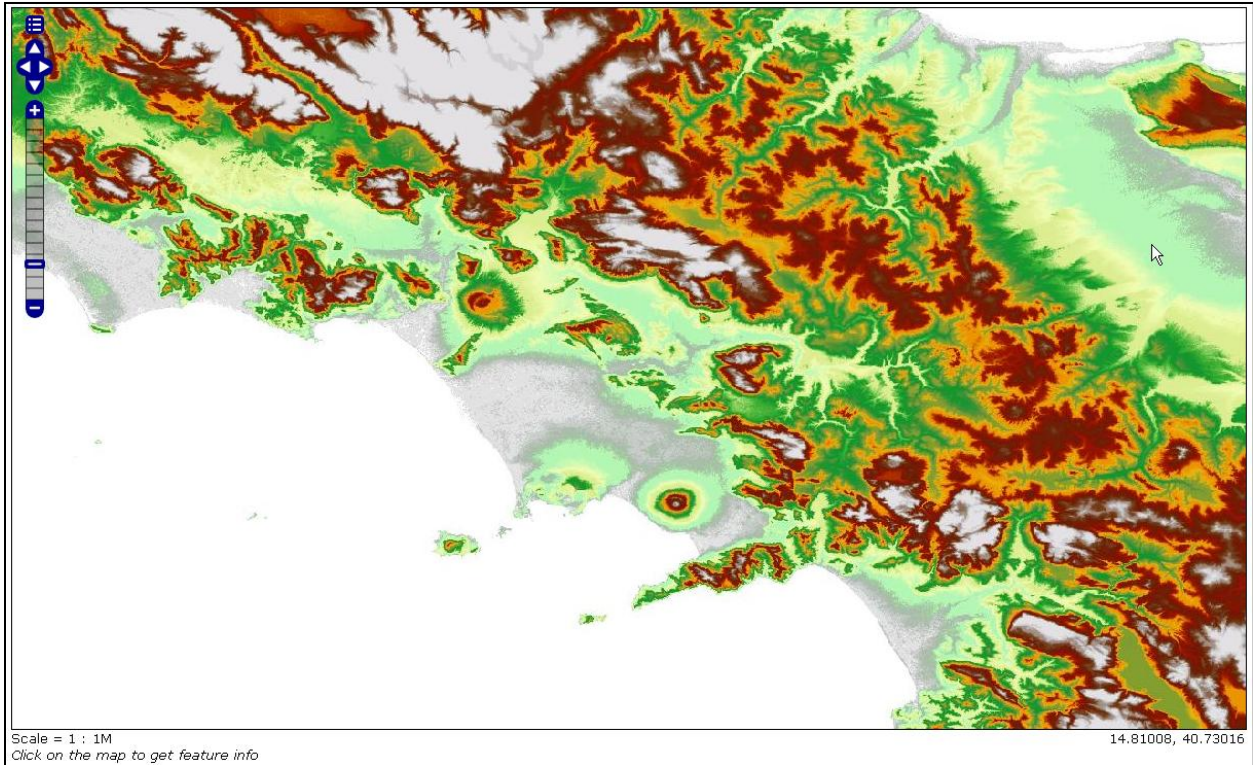
WMS Settings

Queryable

Opaque

Default Style
Aster_terrain





- ### Coverage Formats
- GDAL
 - Image Pyramid
 - JPEG2K
 - JDBC Image Mosaic

Basic Store Info

Workspace *

NaturalEarth ▼

Data Source Name *

atser_pyramid

Description

Enabled






Connection Parameters

URL *




file:/opt/pyramid_aster/pyramids

Save Cancel

Raster Data Sources

-  [ArcGrid](#) - Arc Grid Coverage Format
-  [GeoTIFF](#) - Tagged Image File Format with Geographic information
-  [Gtopo30](#) - Gtopo30 Coverage Format
-  [ImageMosaic](#) - Image mosaicking plugin
-  [WorldImage](#) - A raster file accompanied by a spatial data file














 Parent Directory		-
	gdal-1.9.2-MSVC2010-x64.zip	11-Aug-2013 21:10 17M
	gdal-1.9.2-MSVC2010.zip	11-Aug-2013 21:09 15M
	gdal-19-1600-ecw.msi	11-Aug-2013 21:09 1.2M
	gdal-19-1600-mrsid.msi	11-Aug-2013 21:10 2.3M
	gdal-19-1600-x64-ecw.msi	11-Aug-2013 21:10 1.3M
	gdal-19-1600-x64-mrsid.msi	11-Aug-2013 21:10 2.6M
	msi-installer-license.txt	11-Aug-2013 21:10 1.1K

 Parent Directory		-
	ECWEULA.txt	11-Aug-2013 21:11 21K
	gdal192-CentOS5.8-gcc4.1.2-i386.tar.gz	11-Aug-2013 21:11 16M
	gdal192-CentOS5.8-gcc4.1.2-x86_64.tar.gz	11-Aug-2013 21:11 16M
	gdal192-Redhat6.0-gcc4.4.4-x86_64.tar.gz	11-Aug-2013 21:12 18M
	gdal192-Ubuntu11-gcc4.5.2-i386.tar.gz	11-Aug-2013 21:12 17M
	gdal192-Ubuntu11-gcc4.5.2-x86_64.tar.gz	11-Aug-2013 21:11 17M
	gdal192-Ubuntu12-gcc4.6.3-i386.tar.gz	11-Aug-2013 21:11 17M
	gdal192-Ubuntu12-gcc4.6.3-x86_64.tar.gz	11-Aug-2013 21:12 18M
	notes on ECW and JP2ECW.txt	11-Aug-2013 21:12 612

Coverage Formats

- GDAL
- Image Pyramid
- JPEG2K
- JDBC Image Mosaic

Raster Data Sources

-  **AIG** - Arc/Info Binary Grid (AIG) Coverage Format
-  **ArcGrid** - Arc Grid Coverage Format
-  **DTED** - DTED Coverage Format
-  **EHdr** - EHdr Coverage Format
-  **ENVIHdr** - ENVIHdr Coverage Format
-  **ERDASImg** - Erdas Imagine Coverage Format
-  **GeoTIFF** - Tagged Image File Format with Geographic information
-  **Gtopo30** - Gtopo30 Coverage Format
-  **ImageMosaic** - Image mosaicking plugin
-  **NITF** - NITF Coverage Format
-  **RPFTOC** - RPFTOC Coverage Format
-  **RST** - IDRIS (RST) Coverage Format
-  **WorldImage** - A raster file accompanied by a spatial data file

Add Raster Data Source

Description

ImageMosaicJDBC
Image mosaicking/pyramidal jdbc plugin

Basic Store Info

Workspace *

NaturalEarth ▼

Data Source Name *

asterJDBCmosaic

Description

Enabled

Connection Parameters

URL *


file:coverages/aster.postgis.xml

Save

Cancel

Chapter 3: Advanced Styling

Extensions

 [Extensions](#)
GeoServer Extension downloads.

- Vector Formats**
 - [App Schema](#)
 - [ArcSDE](#)
 - [DB2](#)
 - [H2](#)
 - [MySQL](#)
 - [Oracle](#)
 - [Pregeneralized Features](#)
 - [SQL Server](#)
 - [Teradata](#)
 - [VPF](#)
- Output Formats**
 - [Excel](#)
 - [Image Map](#)
 - [OGR](#)
 - [XSLT](#)
 - [DXF](#)
 - [JPEG Turbo](#)
- Miscellaneous**
 - [Chart Symbolizer](#)
 - [Control Flow](#)
 - [Cross Layer Filtering](#)
 - [CSS Styling](#)
 - [GeoSearch](#)
 - [CAS](#)
 - [Monitor \(Core, Hibernate\)](#)
 - [Importer \(Core, BDB Backend\)](#)
 - [INSPIRE](#)
- Coverage Formats**
 - [GDAL](#)
 - [Image Pyramid](#)
 - [JPEG2K](#)
 - [JDBC Image Mosaic](#)
- Services**
 - [CSW](#)
 - [WCS 2.0](#)
 - [WCS 2.0 EO](#)
 - [WPS](#)

[CSS Styles](#)

[Demos](#)

[Tools](#)

CSS Styles

Create and modify CSS styles. This is an alternative to editing SLD styles.

Currently editing style **population** and previewing with data from **states**. Edit the style here, or:

- [Edit a different style.](#)
- [Choose a different layer](#) to preview this style.
- [Create a new style](#) and preview with this layer.
- [Change layer associations](#) for this style.

Generated SLD					
Generated SLD	Map	Data	CSS Reference		
For reference, here is a listing of the attributes in this data set.					
Name	Type	Sample value	Min	Max	Compute stats
the_geom	MultiPolygon	MULTIPOLYGON (((-88.071564 37.51099000000001, -88.087883 37.476273000000006, -88.311707 37.442852, -88.359177 37.409308999999999, -88.419853 37.420292, -88.467644 37.400757, -88.511322 37.296852, -8...			Compute
STATE_NAME	String	Illinois			Compute
STATE_FIPS	String	17	01	56	Compute
SUB_REGION	String	E N Cen			Compute
STATE_ABBR	String	IL	AL	WY	Compute
LAND_KM	Double	143986.61	159.055	688219.07	Compute
WATER_KM	Double	1993.335	17.991	30456.797	Compute
PERSONS	Double	1.1430602E7	453588.0	2.9760021E7	Compute

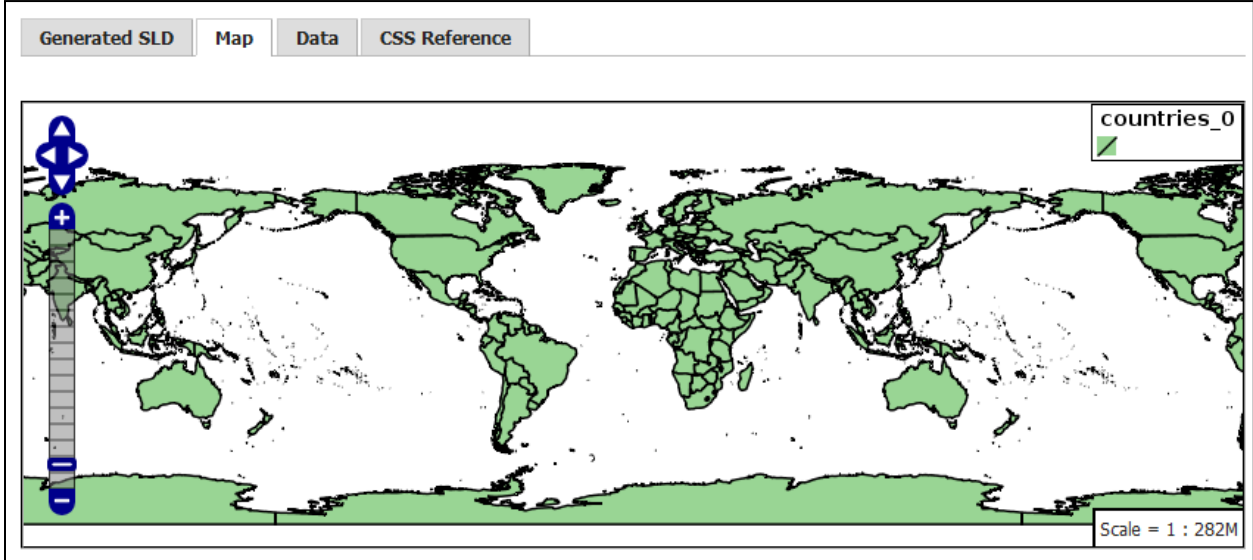
Choose name for new style ✕

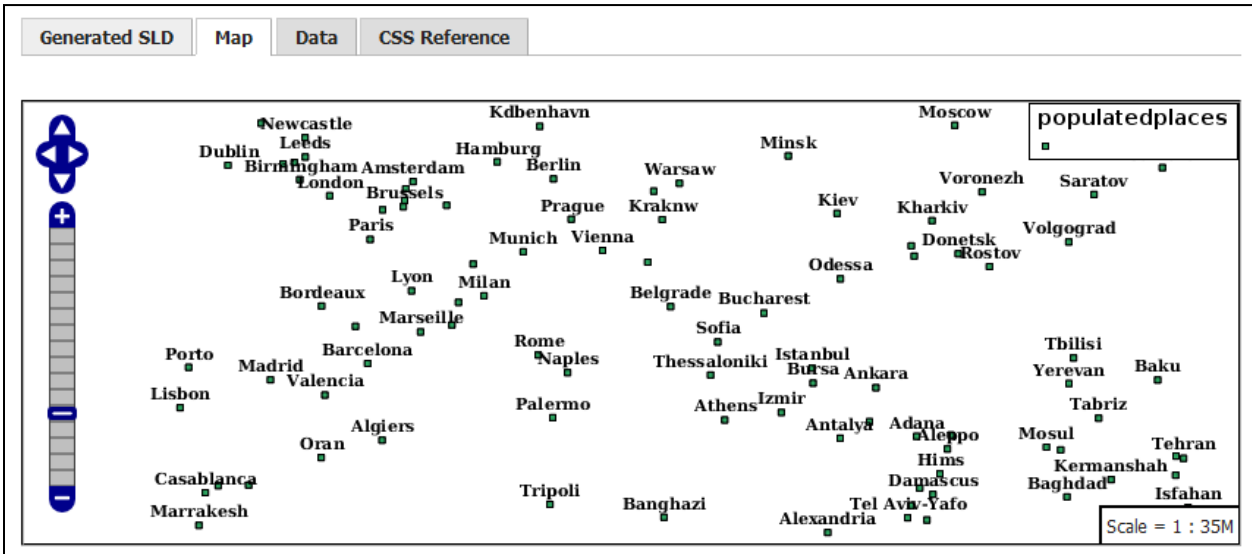
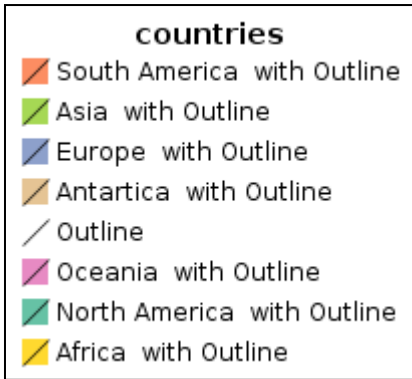
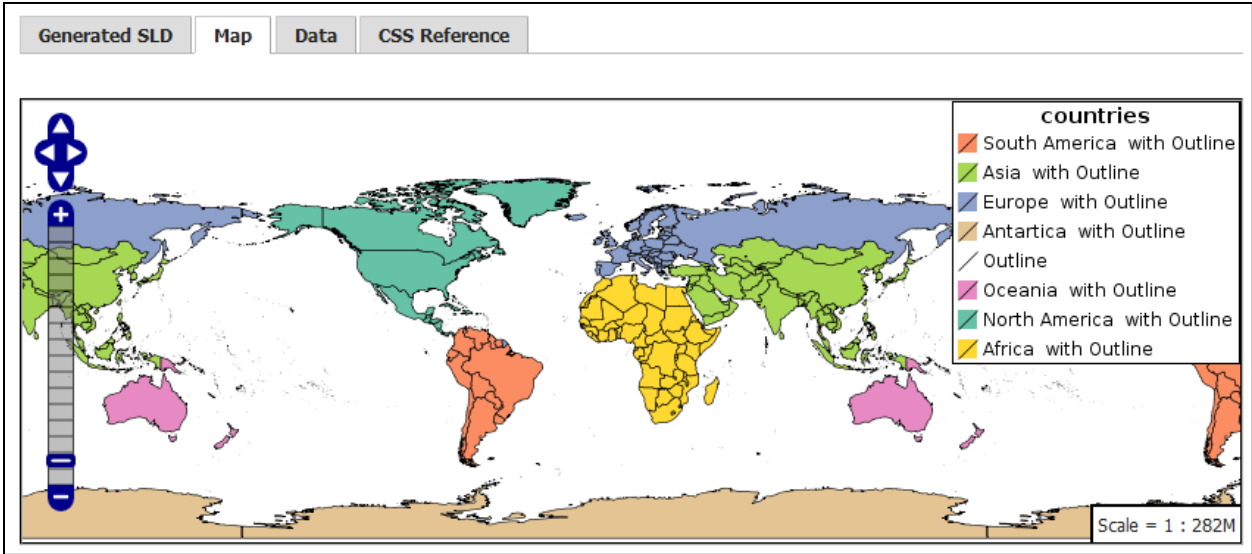
Workspace for new layer

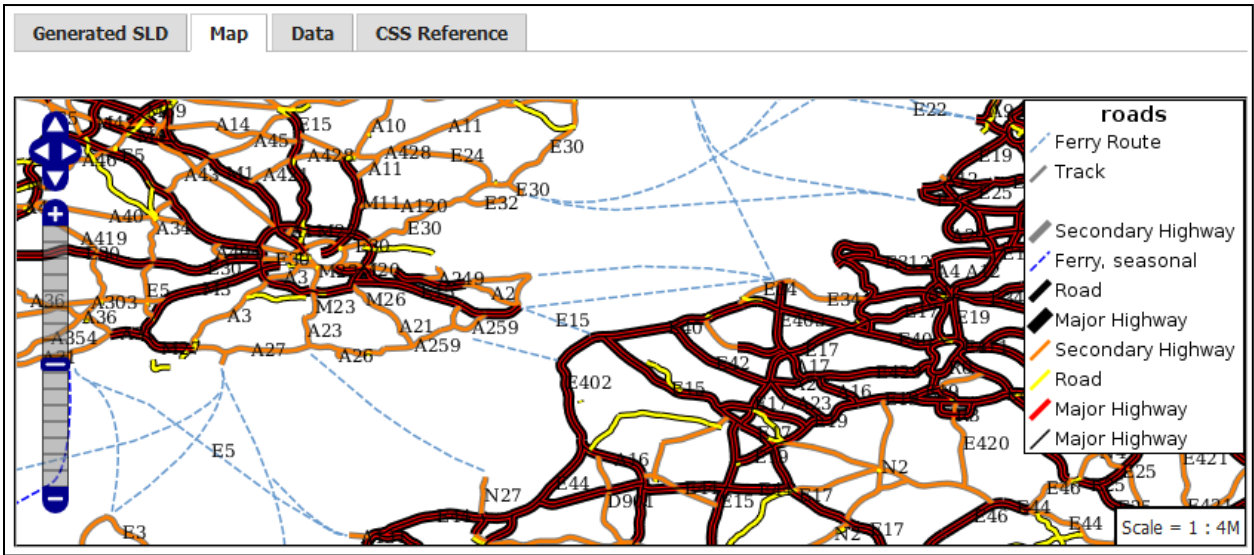
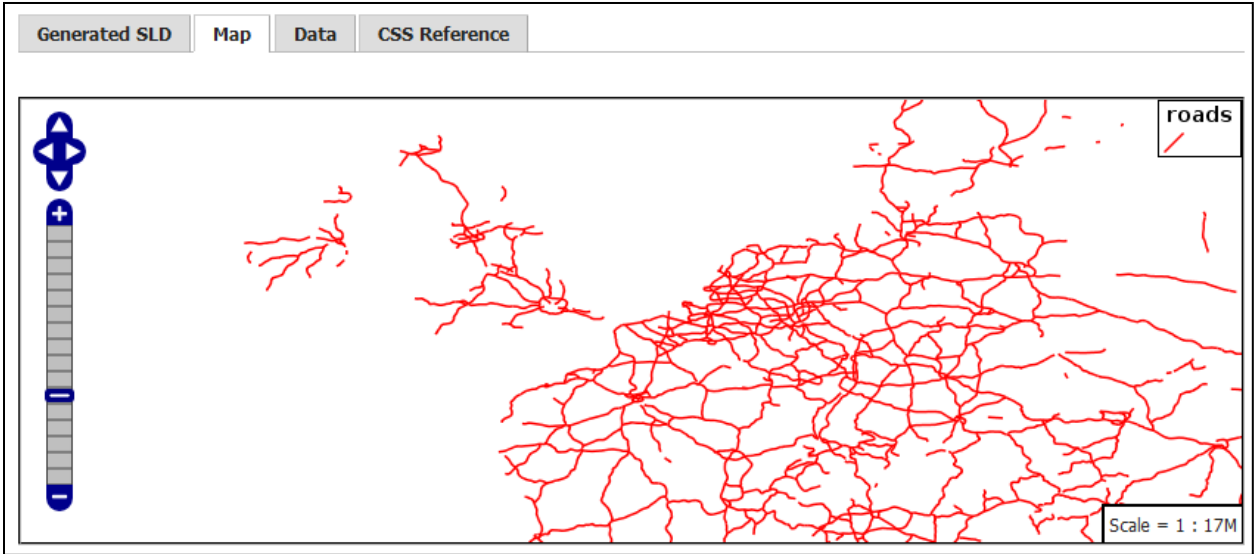
NaturalEarth ▼

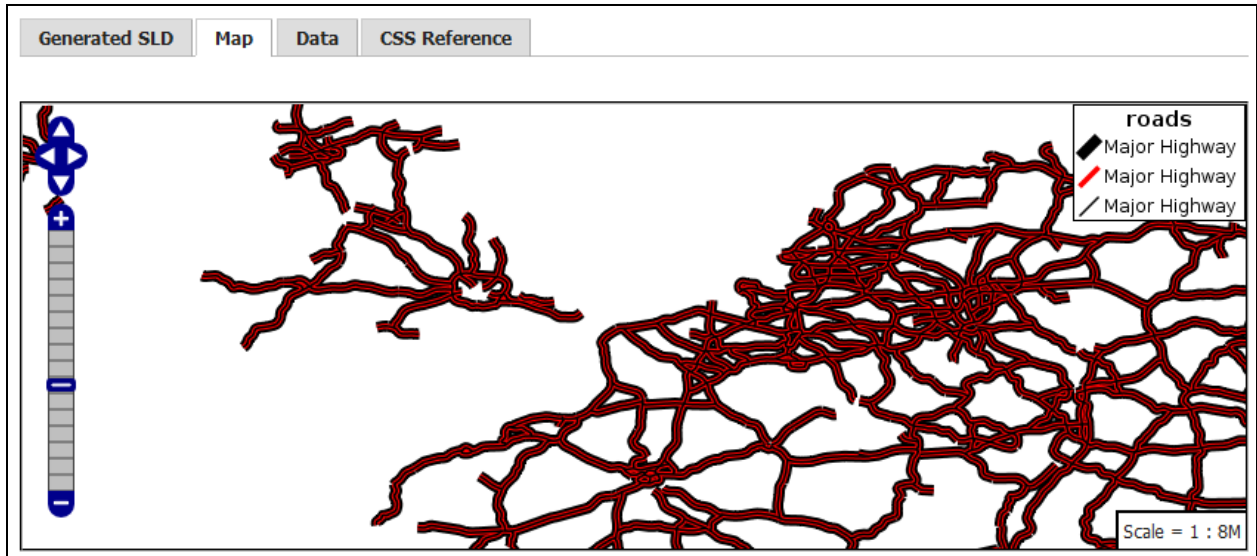
New style name

GeneralizedCountries Create









Spatial Search [?]

Bounding Box 41.615, 13.162, 42.028, 11.926

Satellite 42.107, 12.866

Drag the corners to adjust their location

Google Immagini ©2013 TerraMetrics - Termini e condizioni d'uso Segnala un errore nella mappa

Search by ESRI shape file [\[?\]](#)

Search Terms [?]

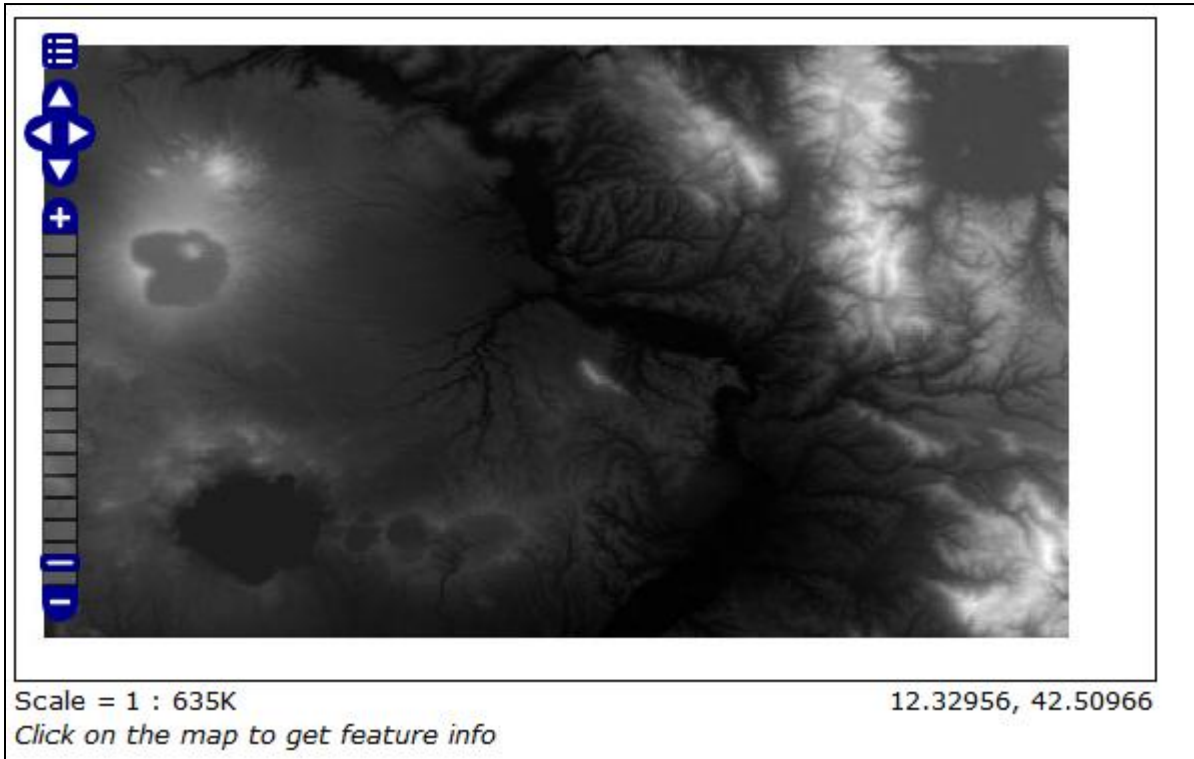
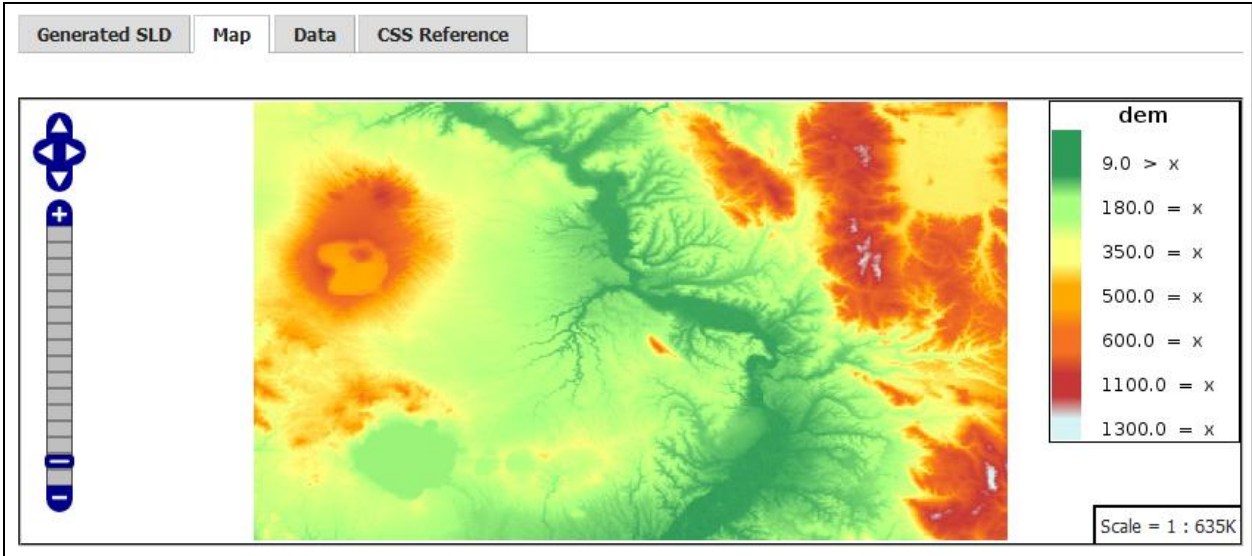
ASTER

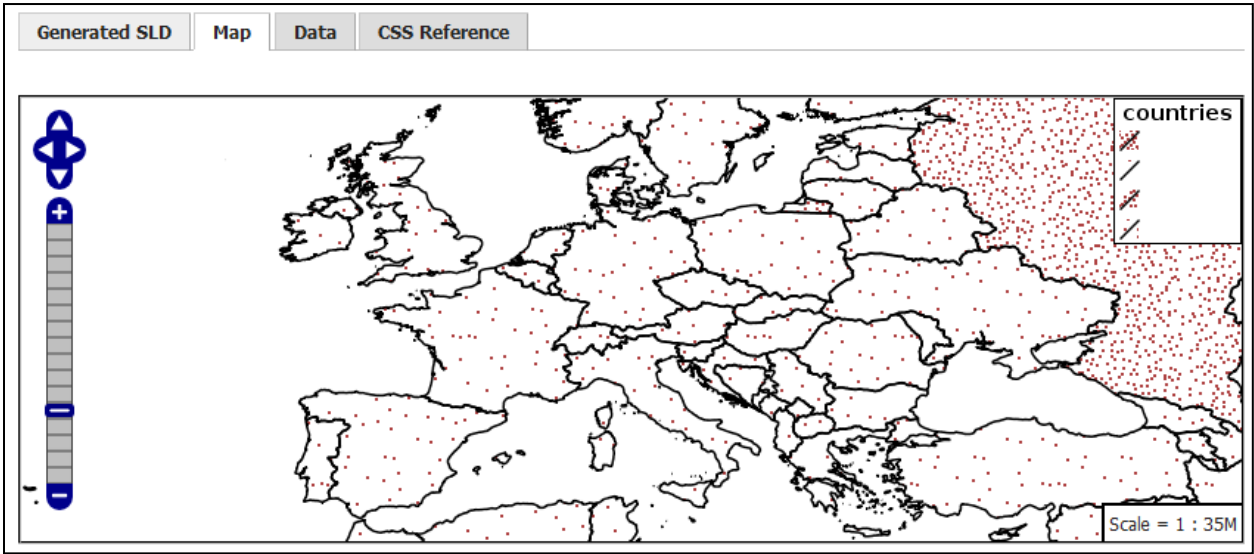
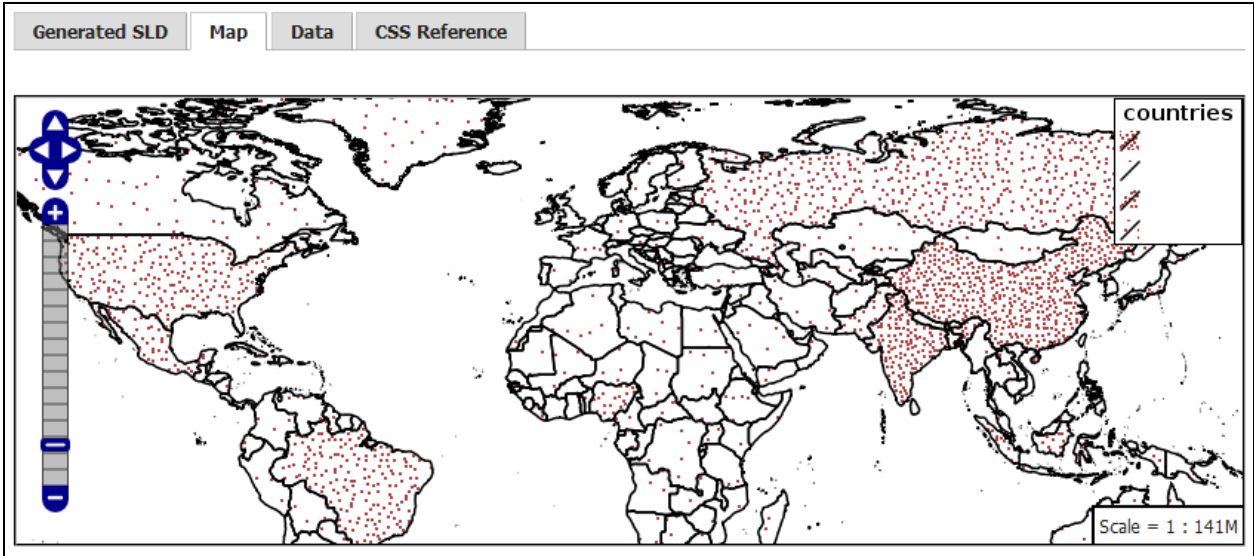
Temporal Search [?]

START

END

* all times must be specified in GMT





Chapter 4: Geoprocessing

About GeoServer

General information about GeoServer

Build Information

Version

2.5.2

Git Revision

878d05129d090db388d1717ec136010ce104b2e3

Build Date

22-Jul-2014 09:05

GeoTools Version

11.2 (rev 59edb005ac690fabd8a0e02b898a82fac1618468)

GeoWebCache Version

1.5.3 (rev 1.5.x/a648922b85343e0181131725764da833997ffa9e)

Service Capabilities

WCS

1.0.0

1.1.0

1.1.1

1.1

WFS

1.0.0

1.1.0

2.0.0

WMS

1.1.1

1.3.0

WPS

1.0.0

TMS

1.0.0

WMS-C

1.1.1

WMTS

1.0.0

GeoServer Demos

Collection of GeoServer demo applications

- [Demo requests](#) Example requests for GeoServer (using the TestServlet).
- [SRS List](#) List of all SRS known to GeoServer
- [Reprojection console](#) Simple coordinate reprojection tool
- [WCS request builder](#) Step by step WCS GetCoverage request builder
- [WPS request builder](#) Step by step WPS request builder

WPS request builder

Step by step WPS request builder.

Choose process

Choose One 

Authentication

Authenticate (will run the request as anonymous otherwise)

Execute process

Generate XML from process inputs/outputs

WPS request builder

Step by step WPS request builder.

Choose process

- gs:PointBuffers
- JTS:area
- JTS:boundary
- JTS:buffer
- JTS:centroid
- JTS:contains**
- JTS:convexHull
- JTS:crosses
- JTS:densify
- JTS:difference
- JTS:dimension
- JTS:disjoint
- JTS:distance
- JTS:endPoint
- JTS:envelope
- JTS>equalsExact
- JTS>equalsExactTolerance
- JTS:exteriorRing

Process inputs

geom* - Geometry
Input geometry

TEXT

POINT (12.33 42.24)

distance* - Double
Distance to buffer the input geometry, in the units of the geometry

```

- <gml:Polygon srsDimension="2">
  - <gml:exterior>
    - <gml:LinearRing srsDimension="2">
      - <gml:posList>
        12.34 42.24 12.339807852804032 42.23804909677984
        12.339238795325112 42.23617316567635 12.338314696123026
        42.2344442976698 12.337071067811866 42.23292893218814
        12.335555702330197 42.23168530387698 12.33382683432365
        42.23076120467489 12.33195090322016 42.23019214719597 12.33
        42.230000000000004 12.32804909677984 42.23019214719597
        12.32617316567635 42.23076120467489 12.324444297669803
        42.23168530387698 12.322928932188134 42.23292893218814
        12.321685303876974 42.2344442976698 12.320761204674888
        42.23617316567635 12.320192147195968 42.23804909677984 12.32
        42.24 12.320192147195968 42.241950903220165 12.320761204674888
        42.243826834323656 12.321685303876974 42.2455557023302
        12.322928932188134 42.247071067811866 12.324444297669803
        42.248314696123025 12.32617316567635 42.24923879532511
        12.32804909677984 42.24980785280403 12.33 42.25
        12.33195090322016 42.24980785280403 12.33382683432365
        42.24923879532511 12.335555702330197 42.248314696123025
        12.337071067811866 42.247071067811866 12.338314696123026
        42.2455557023302 12.339238795325112 42.243826834323656
        12.339807852804032 42.241950903220165 12.34 42.24
      </gml:posList>
    </gml:LinearRing>
  </gml:exterior>
</gml:Polygon>

```

Step by step WPS request builder.

Choose process

gs:Clip

Clips (crops) features to a given geometry ([WPS DescribeProcess](#))

Process inputs

features* - SimpleFeatureCollection

Input feature collection

VECTOR_LAYER NaturalEarth:populatedplaces

clip* - Geometry

Geometry to use for clipping (in same CRS as input features)

SUBPROCESS **Choose process**gs:CollectGeometries Collects the default geometries of the input features and combines them into a single geometry collection ([WPS DescribeProcess](#))**Process inputs****features* - FeatureCollection**

Input feature collection

SUBPROCESS [Define/Edit](#)**Choose process**gs:Query Queries a feature collection using an optional filter and an optional list of attributes to include. Can also be used to convert feature collection format. ([WPS DescribeProcess](#))**Process inputs****features* - SimpleFeatureCollection**

Input feature collection

VECTOR_LAYER NaturalEarth:EuropeCountries **attribute - String(0-2147483647)**

Attribute to include in output

filter - Filter

The filter to apply

TEXT text/plain; subtype=cql

```
admin = 'Switzerland'
```

clip* - Geometry

Geometry to use for clipping (in same CRS as input features)

SUBPROCESS

```
http://schemas.opengis.net/wps/1.0.0/wpsAll.xsd">
  <ows:Identifier>gs:CollectGeometries</ows:Identifier>
  <wps:DataInputs>
    <wps:Input>
      <ows:Identifier>features</ows:Identifier>
      <wps:Reference mimeType="text/xml"
xlink:href="http://geoserver/wps" method="POST">
      <wps:Body>
        <wps:Execute version="1.0.0" service="WPS">
          <ows:Identifier>gs:Query</ows:Identifier>
          <wps:DataInputs>
            <wps:Input>
              <ows:Identifier>features</ows:Identifier>
```

```
<wfs:FeatureCollection>
- <gml:boundedBy>
- <gml:Box srsName="http://www.opengis.net/gml/srs/epsg.xml#4326">
- <gml:coord>
  <gml:X>6.03000890974238</gml:X>
  <gml:Y>45.8999747915411</gml:Y>
</gml:coord>
- <gml:coord>
  <gml:X>9.76670158807428</gml:X>
  <gml:Y>47.7504044790487</gml:Y>
</gml:coord>
</gml:Box>
</gml:boundedBy>
- <gml:featureMember>
- <feature:populatedplaces fid="populatedplaces.106">
  <gml:name>Delemont</gml:name>
- <gml:boundedBy>
- <gml:Box srsName="http://www.opengis.net/gml/srs/epsg.xml#4326">
- <gml:coord>
  <gml:X>7.3449994876432925</gml:X>
  <gml:Y>47.36999712580081</gml:Y>
</gml:coord>
- <gml:coord>
  <gml:X>7.3449994876432925</gml:X>
  <gml:Y>47.36999712580081</gml:Y>
</gml:coord>
</gml:Box>
```

Step by step WPS request builder.

Choose process

gs:Query

Queries a feature collection using an optional filter and an optional list of attributes to include. Can also be used to convert feature collection format. ([WPS DescribeProcess](#))

Process inputs

features* - SimpleFeatureCollection

Input feature collection

VECTOR_LAYER NaturalEarth:roads

attribute - String(0-2147483647)

Attribute to include in output

filter - Filter

The filter to apply

TEXT text/plain; subtype=cql

`routeraw = 'M11'`

Chapter 5: Advanced Configurations

/geoserver	<i>None specified</i>	GeoServer	true	1	Start <input type="button" value="Stop"/> <input type="button" value="Reload"/> <input type="button" value="Undeploy"/> <input type="button" value="Expire sessions"/> with idle ≥ 30 <input type="text" value=""/> minutes
----------------------------	-----------------------	-----------	------	---	--

New Vector Data Source

Add a new vector data source

PostGIS (JNDI)
PostGIS Database (JNDI)

Basic Store Info

Workspace *
NaturalEarth

Data Source Name *
PostGIS|JNDI

Description

Enabled

Connection Parameters

jndiReferenceName *
java:comp/env/jdbc/postgis

schema

Namespace *
<http://www.naturearthdata.com/>

fetch size
1000

Results 1 to 8 (out of 8 items)

Published	Layer name	Action
	countries	Publish
	countries_0	Publish
	countries_01	Publish
	countries_05	Publish
	countries_1	Publish
	populatedplaces	Publish
	populatedplaceswm	Publish
	roads	Publish

Results 1 to 8 (out of 8 items)

2013 TIGER/Line® Shapefiles

Select the layer you are interested in from the dropdown menu and click 'submit' for a list of the available geographic areas.

Select a layer type

Source: US Census Bureau, Geography Division

Coordinate Reference Systems

Native SRS

Declared SRS

...

SRS handling

Reprojection console

Simple coordinate reprojection tool

Source CRS

Find...

...

Target CRS

Find...

...

[Show transformation details](#)

Geometry of Source CRS (x y, or a WKT geometry)

[Forward Transform \(source to target\)](#)

Geometry of Target CRS (x y, or a WKT geometry)

[Backward Transform \(target to source\)](#)

Reprojection console

Simple coordinate reprojection tool

Source CRS

Find...

EPSG:WGS 84...

Target CRS

Find...

EPSG:NAD83...

[Show transformation details](#)

Geometry of Source CRS (x y, or a WKT geometry)

[Forward Transform \(source to target\)](#)

Geometry of Target CRS (x y, or a WKT geometry)

[Backward Transform \(target to source\)](#)

Source CRS
 [EPSG:WGS 84...](#)

Target CRS
 [EPSG:ED50...](#)

[Show transformation details](#)

Geometry of Source CRS (x y, or a WKT geometry)

Forward Transform (source to target)

Geometry of Target CRS (x y, or a WKT geometry)

[Backward Transform \(target to source\)](#)

Source CRS
 [EPSG:WGS 84...](#)

Target CRS
 [EPSG:NAD83...](#)

[Show transformation details](#)

```
DATUM["North American Datum 1983",
  SPHEROID["GRS 1980", 6378137.0, 298.257222101, AUTHORITY["EPSG","7019"]],
  TOWGS84[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0],
  AUTHORITY["EPSG","6269"]],
```

```
DATUM["European Datum 1950",
  SPHEROID["International 1924", 6378388.0, 297.0, AUTHORITY["EPSG","7022"]],
  TOWGS84[-116.641, -56.931, -110.559, 0.893, 0.921, -0.917, -3.52],
  AUTHORITY["EPSG","6230"]],
```

Geometry of Source CRS (x y, or a WKT geometry)

Forward Transform (source to target)

Geometry of Target CRS (x y, or a WKT geometry)

[Backward Transform \(target to source\)](#)

Geometry of Source CRS (x y, or a WKT geometry)

POINT (510071 4340827)

Forward Transform (source to target)

Geometry of Target CRS (x y, or a WKT geometry)

1510102.1184072776 4340892.124602812

Backward Transform (target to source)

Aliases

Operation Version: EPSG-Ita Sar
 Operation is Reversible: yes
 Accuracy: 4 metre

Area of Use [Italy - Sardinia onshore] [metadata](#)

Source CRS [Monte Mario] [metadata](#)

Target CRS [WGS 84] [metadata](#)

Parameter Values

Warning: CARE! Ensure application uses this method! See Guidance Note 7-1

Parameter Name	Parameter Value or Parameter File	Unit of Measure	Sign Reversible
X-axis translation	-168.6	metre	Yes
Y-axis translation	-34	metre	Yes
Z-axis translation	38.6	metre	Yes
X-axis rotation	-0.374	arc-second	Yes
Y-axis rotation	-0.679	arc-second	Yes
Z-axis rotation	-1.379	arc-second	Yes
Scale difference	-9.48	parts_per_million	Yes

Method [Position Vector transformation (geog2D domain)] [metadata](#)

Monte Mario to WGS 84 (2)[VALID]

Remarks: Parameter values from Monte Mario to ETRS89 (2) (code 1661). Assumes ETRS89 and WGS 84 can be considered the same to within the accuracy of the transformation.

Scope: Accuracy: 4 metres
 Information Source: OGP
 Data Source: OGP
 Revision Date: 2004-01-20
 Change ID: EPSG-2004.080

/geoserver	None specified	GeoServer	true	1	<input type="button" value="Start"/> <input type="button" value="Stop"/> <input type="button" value="Reload"/> <input type="button" value="Undeploy"/>
					<input type="button" value="Expire sessions"/> with idle > 30 minutes

Message: OK - Reloaded application at context path /geoserver

NaturalEarth:populatedplaces N/A N/A [Seed/Truncate](#) | [Empty](#)

NaturalEarth:populatedplaces N/A 4.33 MB [Seed/Truncate](#) | [Empty](#)


Index of /geoserver/2.5.x/community-latest

Name	Last modified	Size	Description
 Parent Directory		-	
 geoserver-2.5-SNAPSHOT-aggregate-plugin.zip	14-Apr-2014 16:34	65K	
 geoserver-2.5-SNAPSHOT-authkey-plugin.zip	14-Apr-2014 16:34	28K	
 geoserver-2.5-SNAPSHOT-colormap-plugin.zip	14-Apr-2014 16:34	17K	
 geoserver-2.5-SNAPSHOT-dds-plugin.zip	14-Apr-2014 16:34	6.1M	
 geoserver-2.5-SNAPSHOT-ftp-plugin.zip	14-Apr-2014 16:34	868K	
 geoserver-2.5-SNAPSHOT-geopkg-plugin.zip	14-Apr-2014 16:34	4.9M	
 geoserver-2.5-SNAPSHOT-groovy-plugin.zip	14-Apr-2014 16:34	20M	
 geoserver-2.5-SNAPSHOT-javascript-plugin.zip	14-Apr-2014 16:34	1.8M	
 geoserver-2.5-SNAPSHOT-jdbcconfig-plugin.zip	14-Apr-2014 16:34	96K	
 geoserver-2.5-SNAPSHOT-mbtiles-plugin.zip	14-Apr-2014 16:34	4.9M	

10 Layers


 Add layers

4 Stores

 Add stores

1 Workspaces

 Create workspaces

 JDBCConfig using jdbc:postgresql://localhost:5432/gscatalog

Object browser

Server Groups

- Servers (4)
 - ubuntu1204x64vm_GISUSER_USER (ubuntu1204x64vm:5432)
 - ubuntu1204x64vm_POSTGRES_USER (ubuntu1204x64vm:5432)
- Databases (3)
 - gisdata
 - gscatalog
 - Catalogs (2)
 - Event Triggers (0)
 - Extensions (2)
 - Schemas (1)
 - public
 - Collations (0)
 - Domains (0)
 - FTS Configurations (0)
 - FTS Dictionaries (0)
 - FTS Parsers (0)
 - FTS Templates (0)
 - Functions (0)
 - Sequences (3)
 - Tables (5)
 - Trigger Functions (0)
 - Views (16)
 - Slony Replication (0)
 - postgres
 - Tablespaces (2)
 - Group Roles (0)
 - Login Roles (2)

Properties

View	Owner	Comment
coverage	postgres	
coveragestore	postgres	
datastore	postgres	
featuretype	postgres	
global	postgres	
layer	postgres	
layer_style	postgres	
layergroup	postgres	
layergroup_layer	postgres	
layergroup_style	postgres	
service	postgres	
settings	postgres	
style	postgres	
wmslayer	postgres	
wmsstore	postgres	
workspace	postgres	

SQL pane

Chapter 6: Automating GeoServer Configurations

Name

Namespace URI

 The namespace uri associated with this workspace

<input type="checkbox"/>		NaturalEarth	PostGISLocal	PostGIS	✓
<input type="checkbox"/>		MyOrganization	myPostGIS	PostGIS	✓

<< < | I | > >> Results 1 to 6 (out of 6 items)

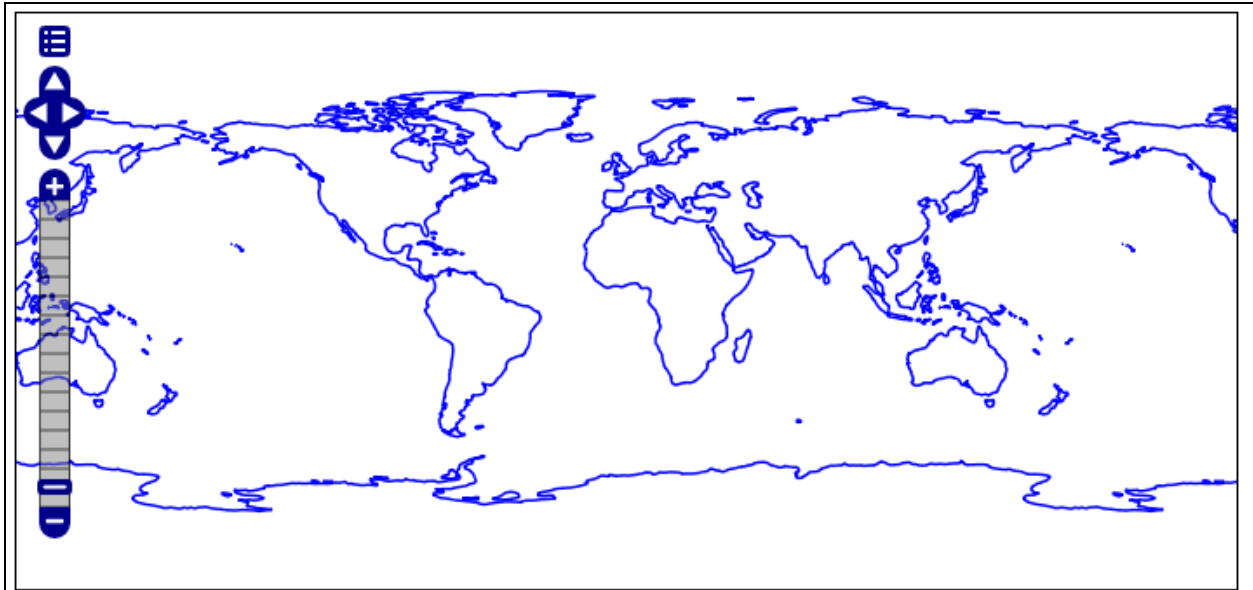
<< < | I | > >> Results 1 to 6 (out of 6 items)

<input type="checkbox"/>	Data Type	Workspace	Store Name	Type	Enabled?
<input type="checkbox"/>		NaturalEarth	DEM	GeoTIFF	✓
<input type="checkbox"/>		NaturalEarth	BlueMarble	GeoTIFF	✓
<input type="checkbox"/>		NaturalEarth	ShapeData	Directory of spatial files (shapefiles)	✓
<input type="checkbox"/>		NaturalEarth	GeneralizedCountries	Generalizing data store	✓
<input type="checkbox"/>		NaturalEarth	PostGISLocal	PostGIS	✓
<input type="checkbox"/>		NaturalEarth	Coastline	Shapefile	✓

<< < | I | > >> Results 1 to 6 (out of 6 items)

<input type="checkbox"/>		NaturalEarth	BlueMarble	blueMarble	✓	EPSG:4326
<input type="checkbox"/>		NaturalEarth	Coastline	ne_110m_coastline	✓	EPSG:4326

<< < | I | > >> Results 1 to 10 (out of 10 items)



Scale = 1 : 279M

-246.44531, 74.15294

Click on the map to get feature info

WMS Settings

Queryable

Opaque

Default Style

simple_roads ▾



Available gridsets

Gridset	Published zoom levels	Cached zoom levels	Grid subset bounds
EPSG:4326	Min ▾ / Max ▾	Min ▾ / Max ▾	Dynamic
Add grid subset:	Scaglierne uno ▾		

Edit Layer

Edit layer data and publishing

NaturalEarth:Coastline

Configure the resource and publishing information for the current layer

Data

Publishing

Dimensions

Tile Caching

Tile cache configuration

Create a cached layer for this layer

Save

Cancel



GeoWebCache

List this Layer tasks (there are no tasks for other Layers)

Kill all Tasks for Layer 'NaturalEarth:Coastline'. Submit

List of currently executing tasks:

Id	Layer	Status	Type	Estimated # of tiles	Tiles completed	Time elapsed	Time remaining	Tasks
3	NaturalEarth:Coastline	RUNNING	SEED	167,596	464	29 seconds	43 minutes 10 s	(Task 1 of 4) Kill Task
4	NaturalEarth:Coastline	RUNNING	SEED	167,596	560	29 seconds	35 minutes 41 s	(Task 2 of 4) Kill Task
5	NaturalEarth:Coastline	RUNNING	SEED	167,596	496	29 seconds	40 minutes 21 s	(Task 3 of 4) Kill Task
6	NaturalEarth:Coastline	RUNNING	SEED	167,596	528	29 seconds	37 minutes 52 s	(Task 4 of 4) Kill Task

[Refresh list](#)

Chapter 7: Advanced Visualizations

Configure the resource and publishing information for the current layer

Data **Publishing** **Dimensions** **Tile Caching**

Time

Enabled

Attribute

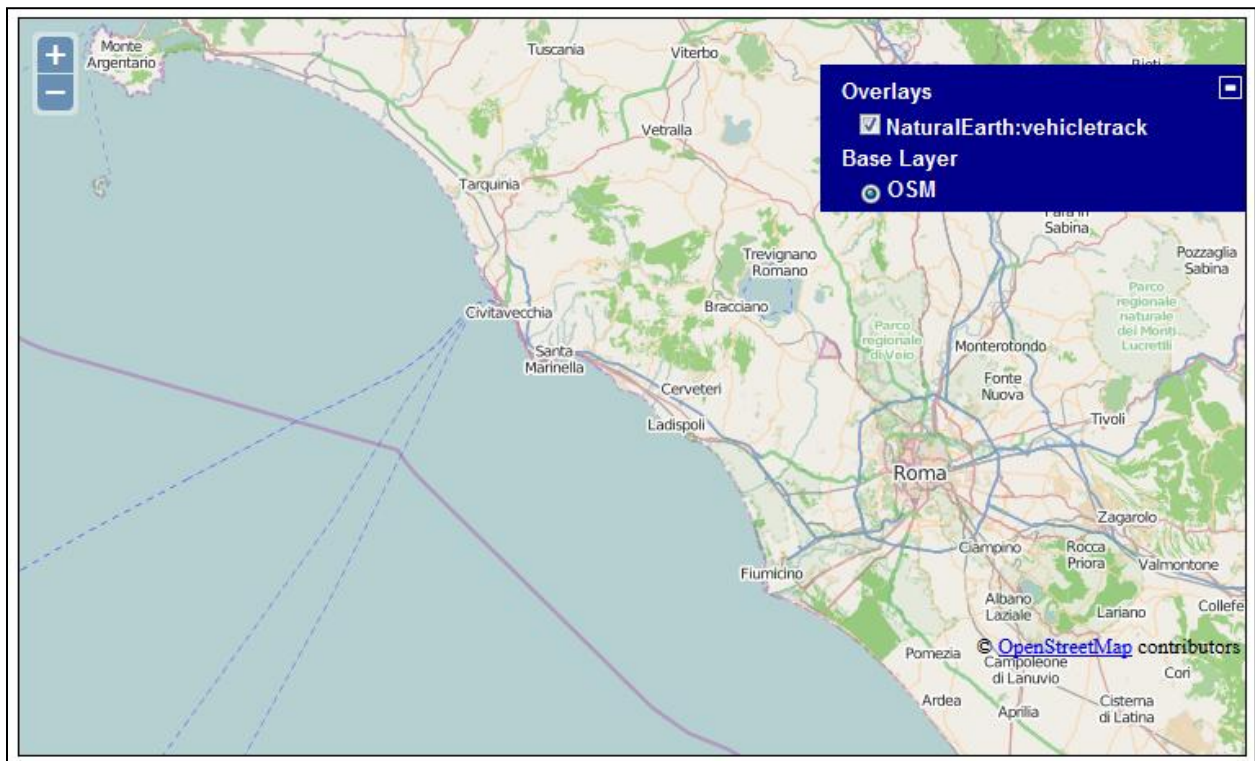
time

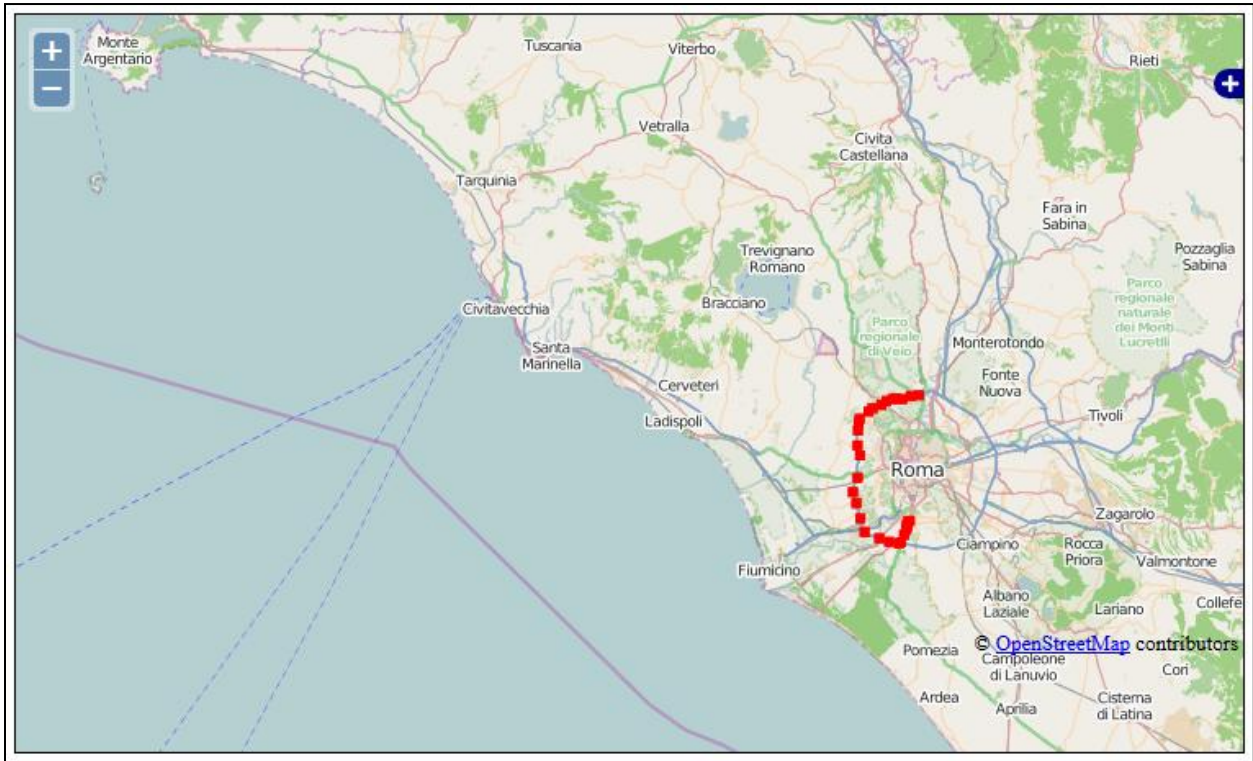
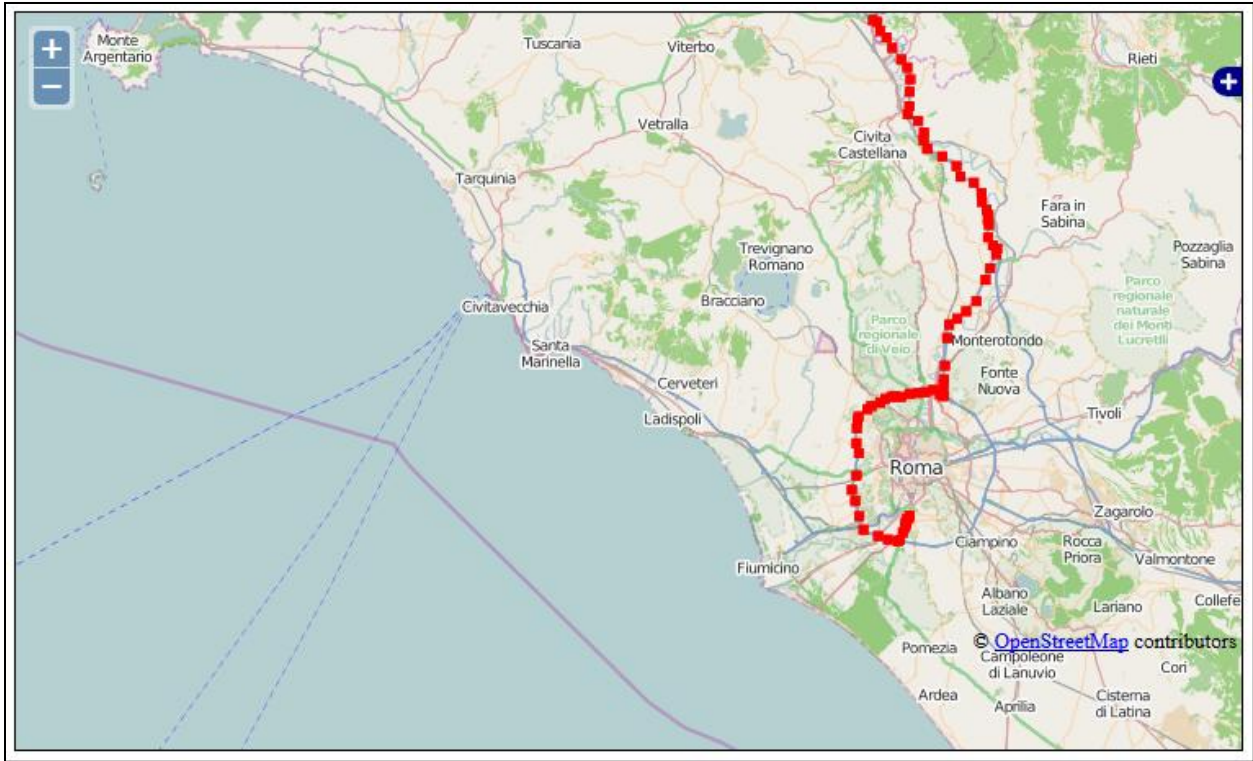
End Attribute (Optional)

Sceglierne uno

Presentation





List







Services

-  WCS
-  WFS
-  WMS
-  WPS

WMS-Animator Options

Max allowed frames

Max rendering time (ms)

Max rendering size (bytes)

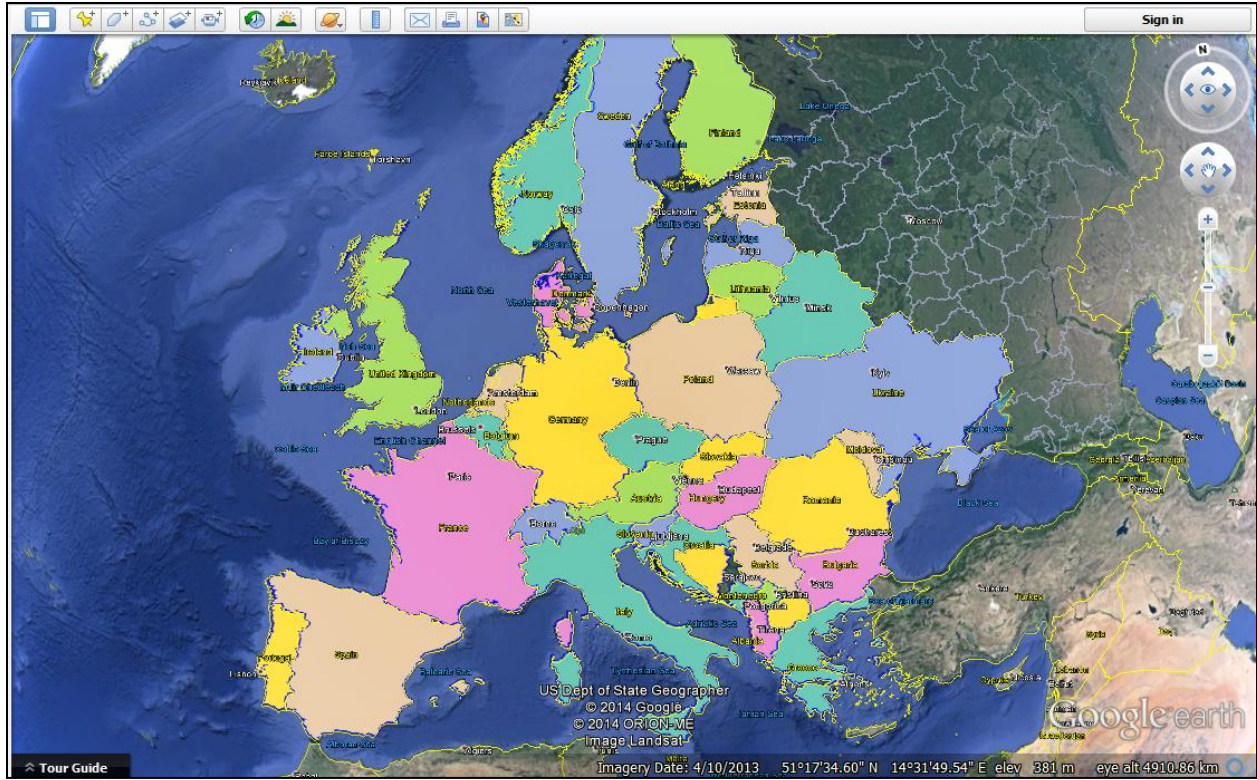
Frames Delay (ms, default 1s)

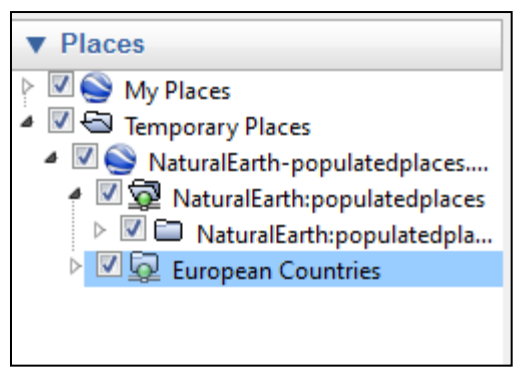
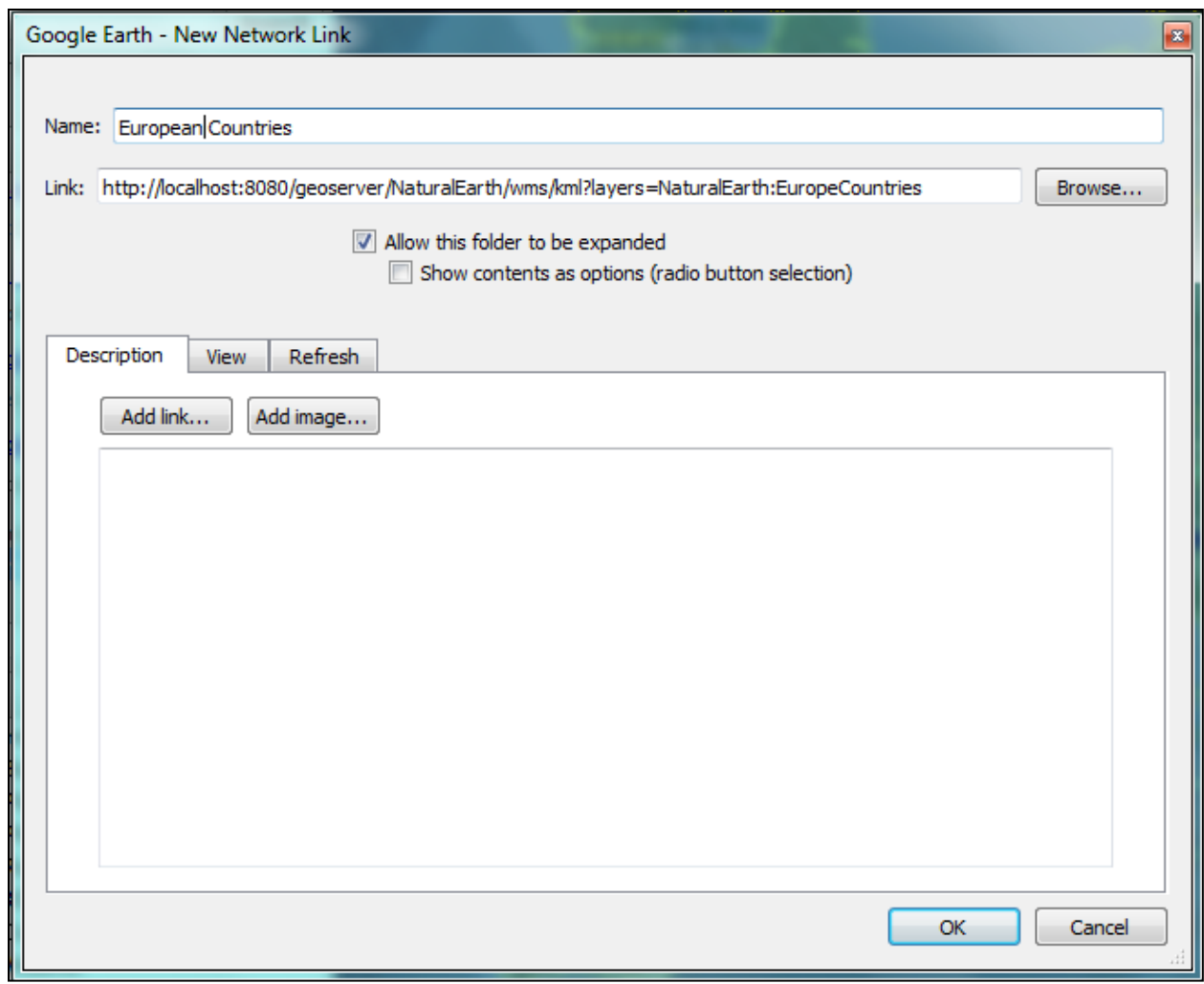
 Loop Continuously

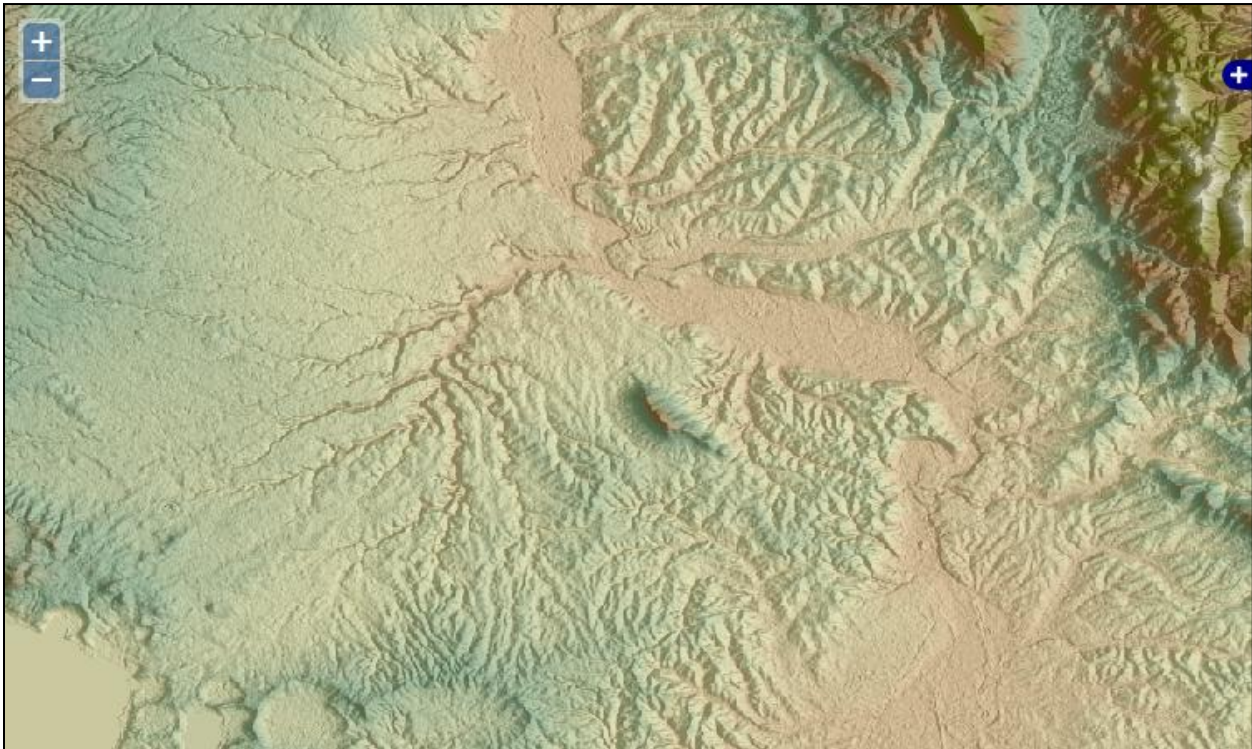
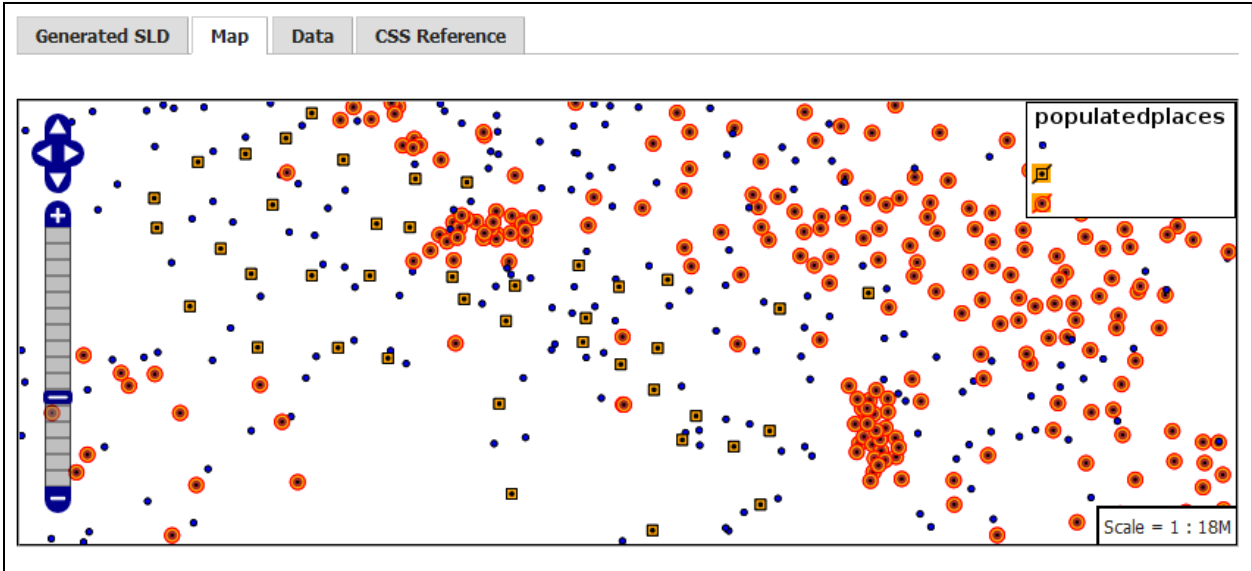
Styles

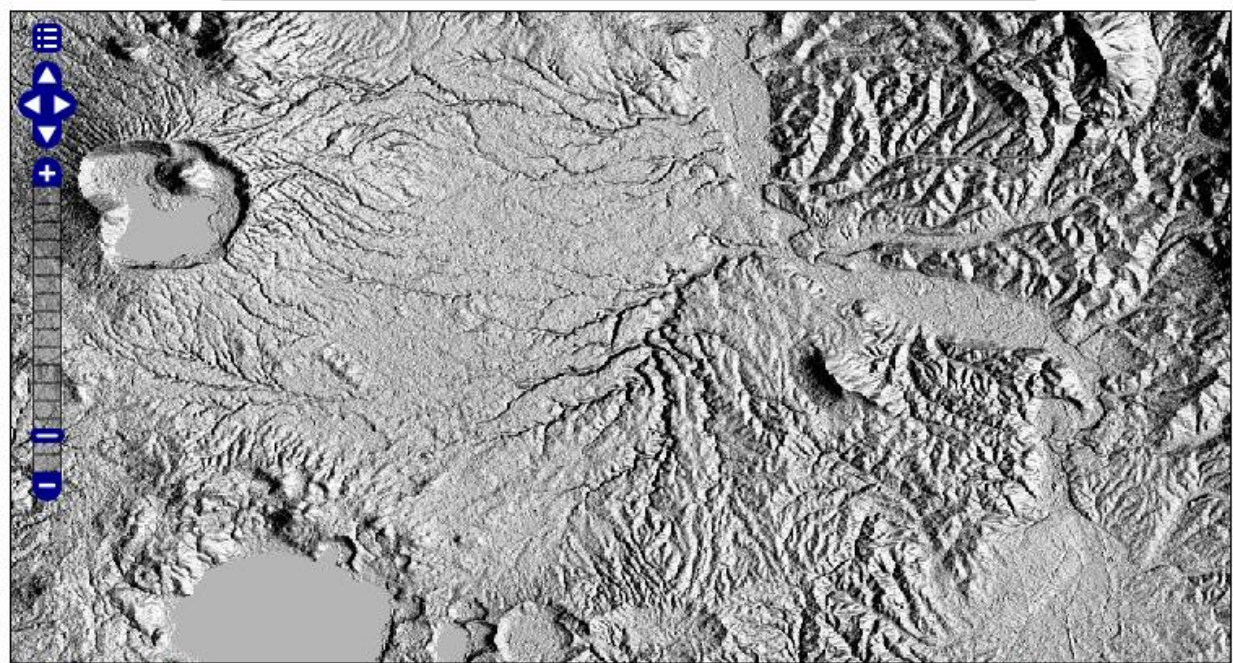
Manage the Styles published by GeoServer

- [+ Add a new style](#)
- [- Removed selected style\(s\)](#)









Scale = 1 : 317K

12.40473, 42.32514

Click on the map to get feature info



Scale = 1 : 317K

12.48550, 42.09803

Click on the map to get feature info

Name

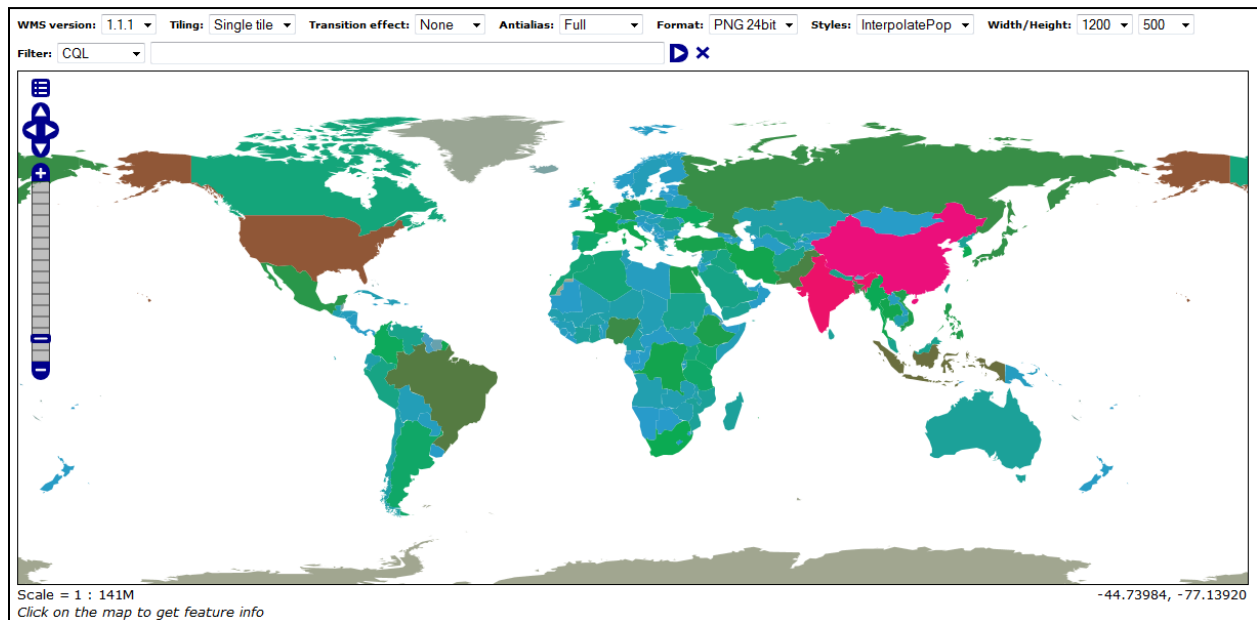
Workspace

Copy from existing style
 [Copy ...](#)

Default Style

Additional Styles

Available Styles	Selected Styles
<ul style="list-style-type: none"> EuropeanCountries GeneralizedCountries giant_polygon grass green KMLEurope line pippo poi point 	<ul style="list-style-type: none"> InterpolatePop



Chapter 8: Monitoring and Tuning

HTTP Status 403 - This IP has been blocked. Please contact the server administrator

type Status report



message This IP has been blocked. Please contact the server administrator

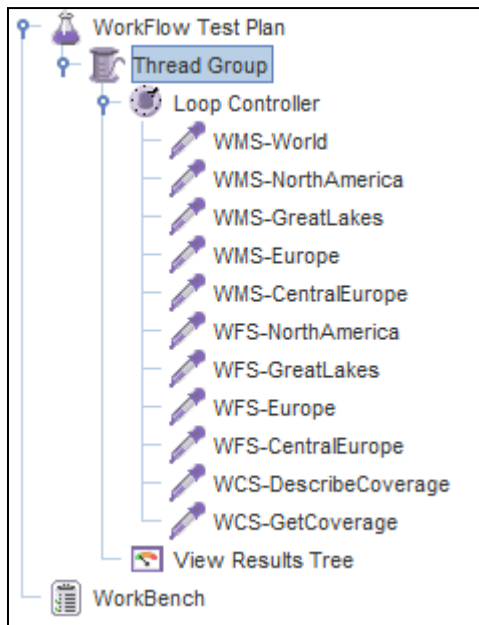
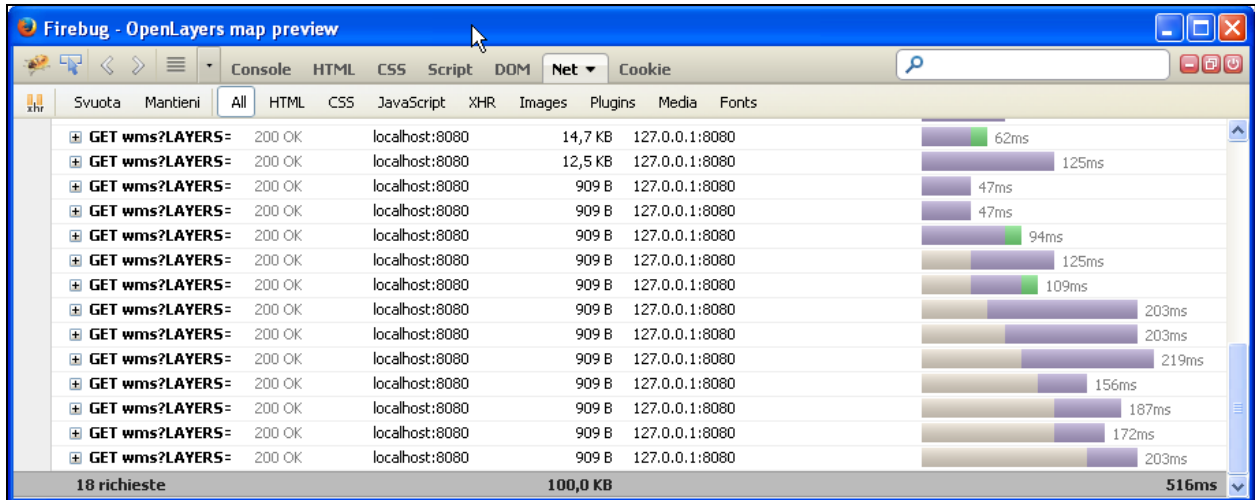
description Access to the specified resource has been forbidden.

Apache Tomcat/7.0.41

The screenshot shows the Firebug interface for an OpenLayers map preview. The title bar reads "Firebug - OpenLayers map preview". The interface includes a toolbar with navigation and zoom icons, and a menu bar with options: "Cons...", "HTML", "CSS", "Script", "DOM", "Net", and "Cookie". Below the menu bar is a sub-menu with "All", "HTML", "CSS", "JavaScript", "XHR", "Images", "Plugins", "Media", and "Fonts". The main content area is currently empty.

WMS version: 1.1.1 ▼ Tiling: Tiled ▼ Transition effect: None ▼ Antialias: Full ▼ Format: JPEG ▼

Filter: CQL ▼  



Thread Group

Name:

Comments:

Action to be taken after a Sampler error

Continue
 Start Next Thread Loop
 Stop Thread
 Stop Test
 Stop Test Now

Thread Properties

Number of Threads (users):

Ramp-Up Period (in seconds):

Loop Count: Forever

Delay Thread creation until needed
 Scheduler

0  0 / 10

User Defined Variables

Name:

Comments:

User Defined Variables	
Name:	Value
hostname	localhost
port	8080

Web Server

Server Name or IP: Port Number:

HTTP Request

Implementation: Protocol [http]: Method: Content encoding:

Path:

Redirect Automatically
 Follow Redirects
 Use KeepAlive
 Use multipart/form-data for POST
 Browser-compatible headers

Parameters Body Data

Send Parameters With the Request:	
Name:	Value
service	WMS
version	1.1.0
request	GetMap

Write results to file / Read from file

Filename Log/Display Only:

	Sampler result	Request	Response data
<ul style="list-style-type: none"> WMS-World WMS-NorthAmerica WMS-GreatLakes WMS-World WMS-Europe WMS-NorthAmerica WMS-World WMS-CentralEurope WMS-GreatLakes WMS-NorthAmerica WMS-Europe WMS-GreatLakes WMS-CentralEurope WMS-Europe WMS-CentralEurope WMS-World WMS-NorthAmerica WMS-GreatLakes WFS-NorthAmerica WFS-NorthAmerica WMS-Europe WMS-World WFS-GreatLakes WMS-CentralEurope WMS-NorthAmerica WFS-GreatLakes WFS-NorthAmerica WMS-GreatLakes 			<p>Thread Name: Thread Group 1-1 Sample Start: 2014-06-25 00:00:07 CEST Load time: 706 Latency: 640 Size in bytes: 389902 Headers size in bytes: 280 Body size in bytes: 389622 Sample Count: 1 Error Count: 0 Response code: 200 Response message: OK</p> <p>Response headers: HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Set-Cookie: GS_FLOW_CONTROL="GS_CFLOW_66ca9c4:146cfb76ab9:-7ec8"; Version=1 Content-Disposition: inline; filename=NaturalEarth-blueMarble.png Content-Type: image/png Transfer-Encoding: chunked Date: Tue, 24 Jun 2014 22:00:39 GMT</p> <p>HTTPSampleResult fields: ContentType: image/png DataEncoding: null</p>

Text

Miscellaneous

- [Chart Symbolizer](#)
- [Control Flow](#)
- [Cross Layer Filtering](#)
- [CSS Styling](#)
- [GeoSearch](#)
- [CAS](#)
- [Monitor \(Core, Hibernate\)](#)
- [Importer \(Core, BDB Backend\)](#)
- [INSPIRE](#)

Monitor

-  [Activity](#)
-  [Reports](#)



Reports

Monitoring Reports

[OWS Request Summary](#)

Overview

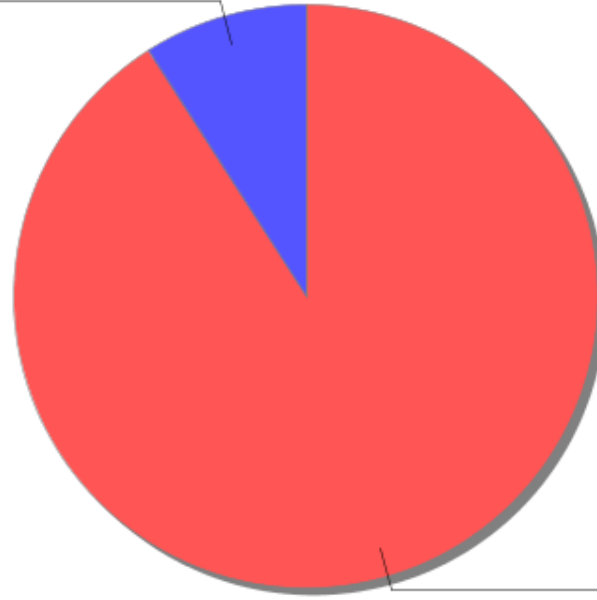
WFS

WMS

WCS

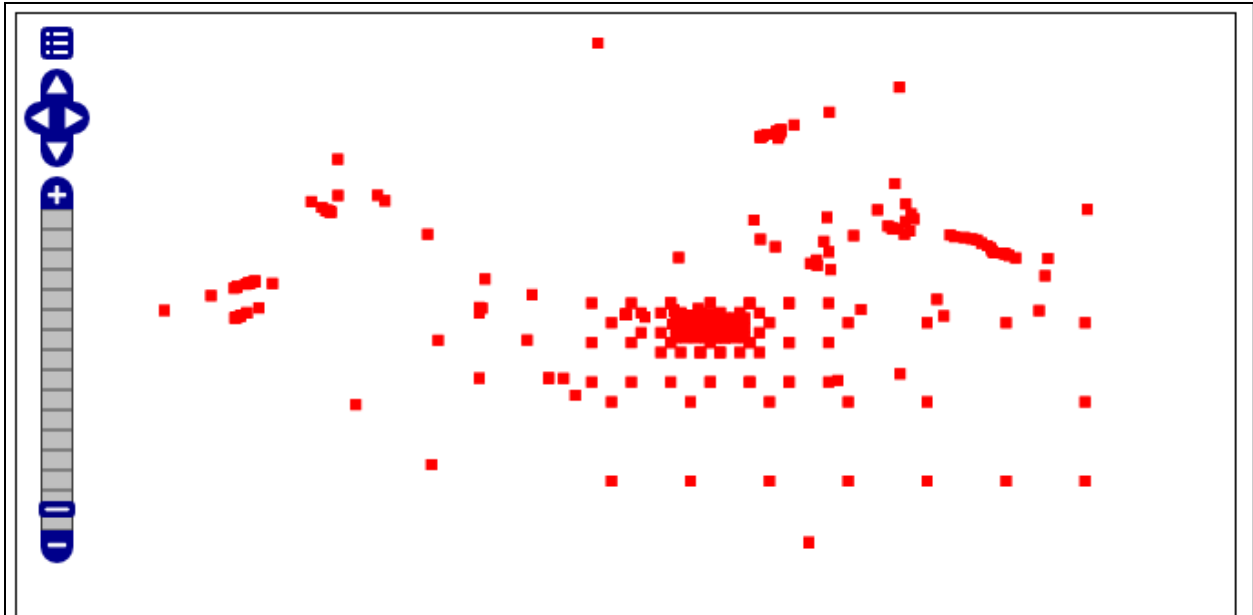
WMS Request Summary

getfeatureinfo



getmap

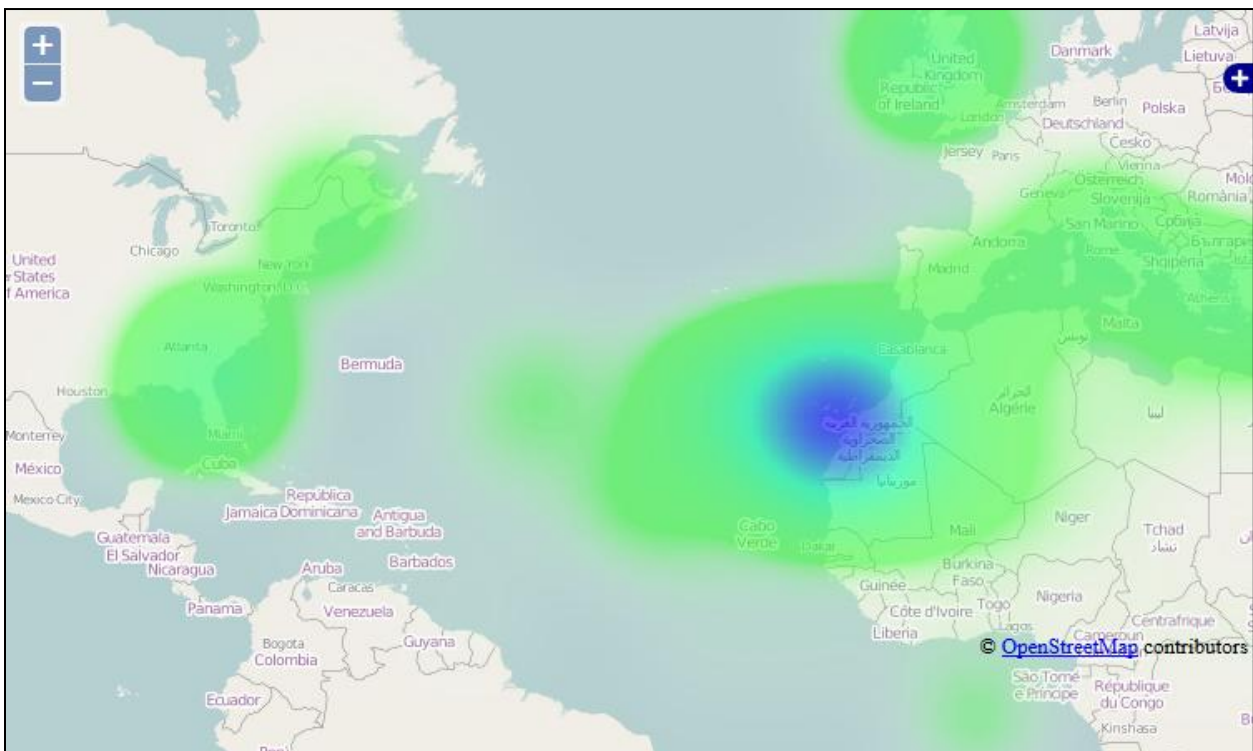
● getmap ● getfeatureinfo



Scale = 1 : 104M

-99.35177, 72.46326

Click on the map to get feature info



© OpenStreetMap contributors

Id	Status	Server	Method	Path	Query
1	FINISHED	localhost	GET	/NaturalEarth/wms	service=WMS&version=1.1.0&request=GetMap&layers=Na
2	FINISHED	localhost	GET	/openlayers/theme/default/style.css	null
3	FINISHED	localhost	GET	/openlayers/OpenLayers.js	null
4	FINISHED	localhost	GET	/openlayers/img/east-mini.png	null
5	FINISHED	localhost	GET	/openlayers/img/cancel.png	null
6	FINISHED	localhost	GET	/options.png	null
9	FINISHED	localhost	GET	/openlayers/img/west-mini.png	null
10	FINISHED	localhost	GET	/openlayers/img/zoom-minus-mini.png	null
7	FINISHED	localhost	GET	/openlayers/img/horth-mini.png	null
13	FINISHED	localhost	GET	/openlayers/img/zoom-plus-mini.png	null
11	FINISHED	localhost	GET	/openlayers/img/zoombar.png	null
12	FINISHED	localhost	GET	/openlayers/img/slider.png	null
8	FINISHED	localhost	GET	/openlayers/img/south-mini.png	null
14	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
15	FINISHED	localhost	GET	/NaturalEarth/wms	REQUEST=GetFeatureInfo&EXCEPTIONS=application/vnd.
16	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
17	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F

Id	Status	Server	Method	Path	Query
14	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
15	FINISHED	localhost	GET	/NaturalEarth/wms	REQUEST=GetFeatureInfo&EXCEPTIONS=application/vnd.
16	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
17	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
18	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
19	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
20	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
21	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
22	FINISHED	localhost	GET	/NaturalEarth/wms	LAYERS=NaturalEarth:GeneralizedCountries&STYLES=&F
23	FINISHED	localhost	GET	/NaturalEarth/wms	REQUEST=GetFeatureInfo&EXCEPTIONS=application/vnd.

Tile Caching

-  Tile Layers
-  Caching Defaults
-  Gridsets
-  Disk Quota

Disk Quota

Configure the disk quota limits and expiration policy for the tile cache

Disk Quota

Enable disk quota

Disk block size:

4096 Bytes

Disk quota check frequency:

10 Seconds

(Quota limit has not been exceeded since server start up)

Maximum tile cache size

500 MiB

Using 0,0 B of a maximum 500,0 MB

When enforcing disk quota limits, remove tiles that are:

- Least frequently used
- Least recently used

Disk quota store type

In process database (H2)

Submit

Cancel

<input type="checkbox"/>		NaturalEarth:GeneralizedCountries	N/A	0,0 B	✓	Select One	Seed/Truncate Empty
<input type="checkbox"/>		sf:sfdem	N/A	0,0 B	✓	Select One	Seed/Truncate Empty
<input type="checkbox"/>		sf:restricted	N/A	0,0 B	✓	EPSG:4326 / jpeg EPSG:4326 / png EPSG:900913 / jpeg EPSG:900913 / png	Seed/Truncate Empty

<input type="checkbox"/>		NaturalEarth:GeneralizedCountries	N/A	7,3 MB	✓	Select One	Seed/Truncate Empty
--------------------------	--	-----------------------------------	-----	--------	---	------------	-----------------------

Maximum tile cache size

5 MiB

Using 7,3 MB of a maximum 5,0 MB

Maximum tile cache size

5 MiB 

 Using 2,86 MB of a maximum 5,0 MB

When enforcing disk quota limits, remove tiles that are:

Disk block size:

4096 Bytes

When enforcing disk quota limits, remove tiles that are:

- Least frequently used
- Least recently used

Appendix: OGC for ESRI Professionals

Select and configure capabilities

<input checked="" type="checkbox"/> Mapping (always enabled)	<input type="checkbox"/> WCS
<input type="checkbox"/> WMS	<input type="checkbox"/> Feature Access
<input type="checkbox"/> Schematics	<input type="checkbox"/> Mobile Data Access
<input type="checkbox"/> Network Analysis	<input checked="" type="checkbox"/> KML
<input type="checkbox"/> WFS	

Select and configure capabilities

- | | |
|--|--|
| <input checked="" type="checkbox"/> Mapping (always enabled) | <input type="checkbox"/> WCS |
| <input type="checkbox"/> WMS | <input checked="" type="checkbox"/> Feature Access |
| <input type="checkbox"/> Schematics | <input type="checkbox"/> Mobile Data Access |
| <input type="checkbox"/> Network Analysis | <input checked="" type="checkbox"/> KML |
| <input type="checkbox"/> WFS | |

Feature Access Configuration

URLs

REST URL: `http://localhost/arcgis/rest/services/SampleWorldCities/FeatureServer`

SOAP URL: `http://localhost/arcgis/services/SampleWorldCities/MapServer/FeatureServer`

Operations Allowed

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Create | <input checked="" type="checkbox"/> Query | <input checked="" type="checkbox"/> Update |
| <input type="checkbox"/> Sync | <input checked="" type="checkbox"/> Delete | |

Properties

Allow Geometry Updates

Allow update of true curves

Apply default to features with z-values

Default z-value when inserting or updating features:

Enable ownership-based access control on features

Operations allowed on features created by other users

- | | | |
|---|---------------------------------|---------------------------------|
| <input checked="" type="checkbox"/> Query | <input type="checkbox"/> Update | <input type="checkbox"/> Delete |
|---|---------------------------------|---------------------------------|

Enable Transactions

Enable feature locking

Enable maximum number of features

Maximum number of features:

Force axis order for WFS 1.0.0:

Longitude, Latitude

Latitude, Longitude

Force axis order for WFS 1.1.0:

Longitude, Latitude

Latitude, Longitude