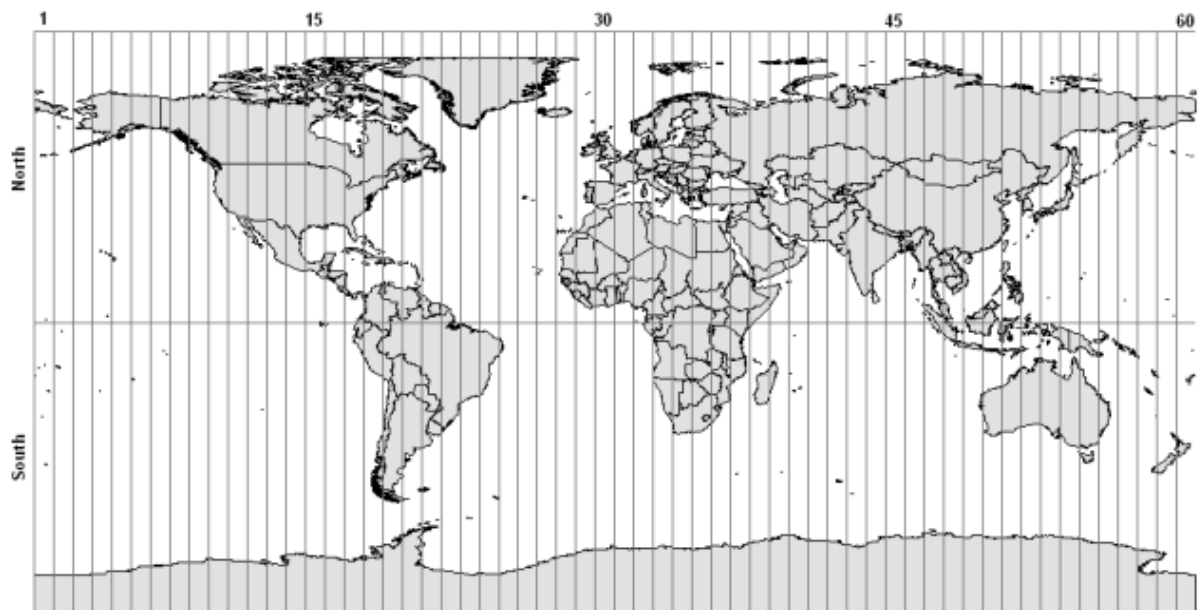
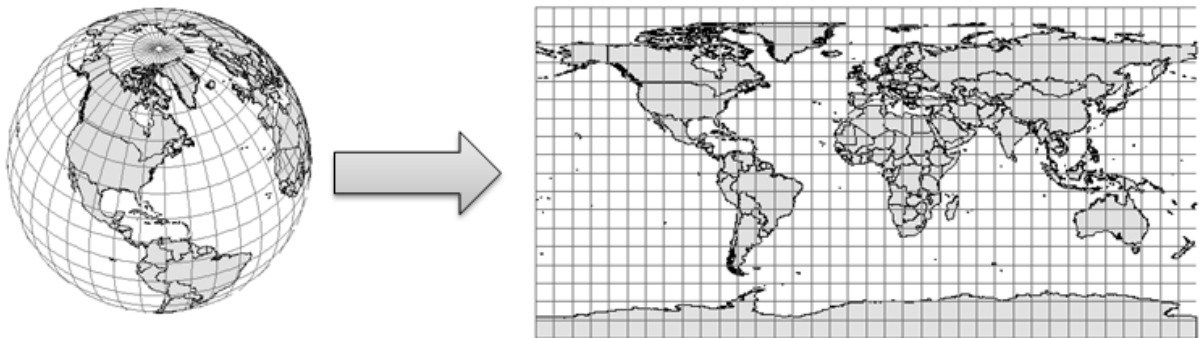
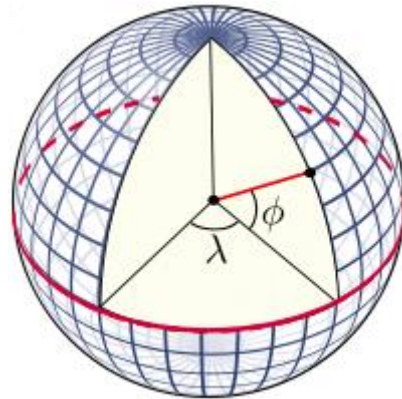
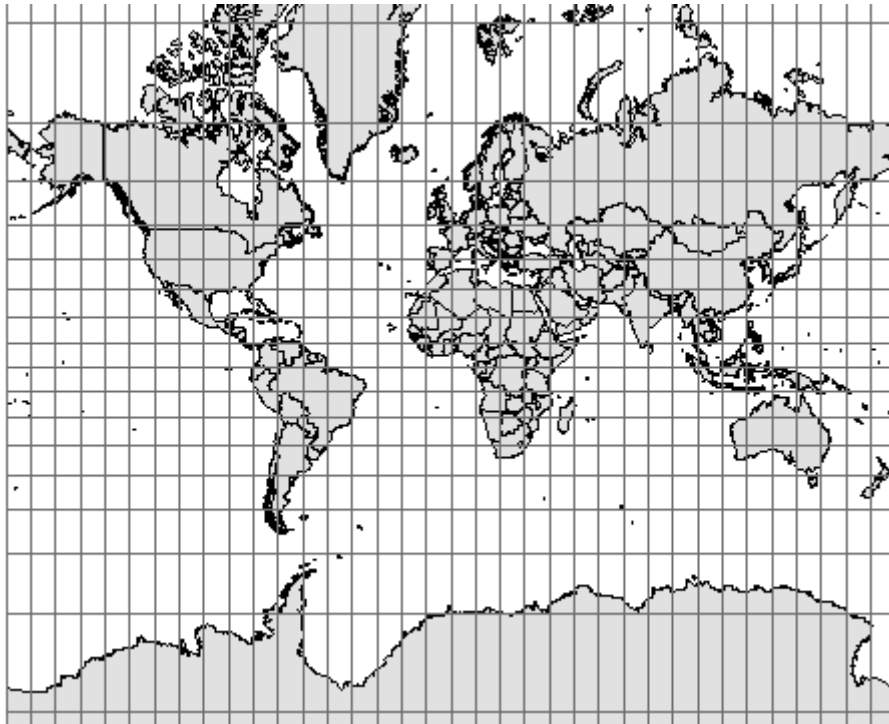


Chapter 1: GIS Fundamentals





Name:

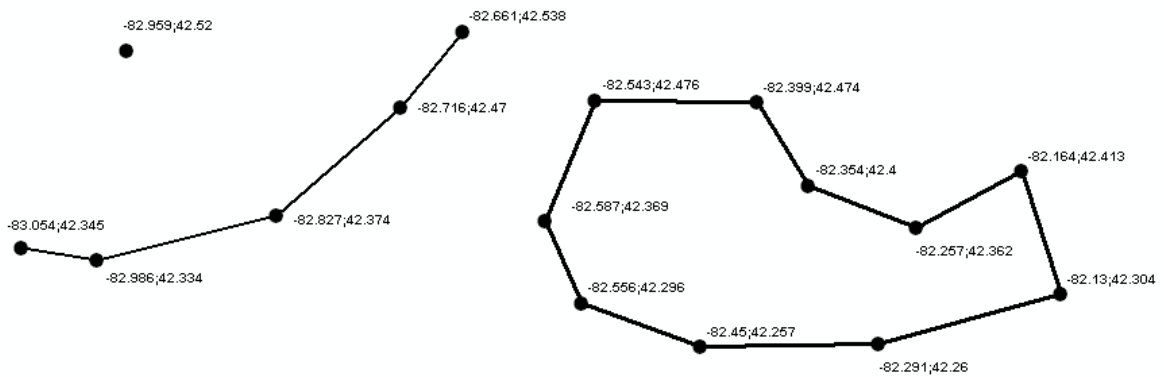
Type:

Area:

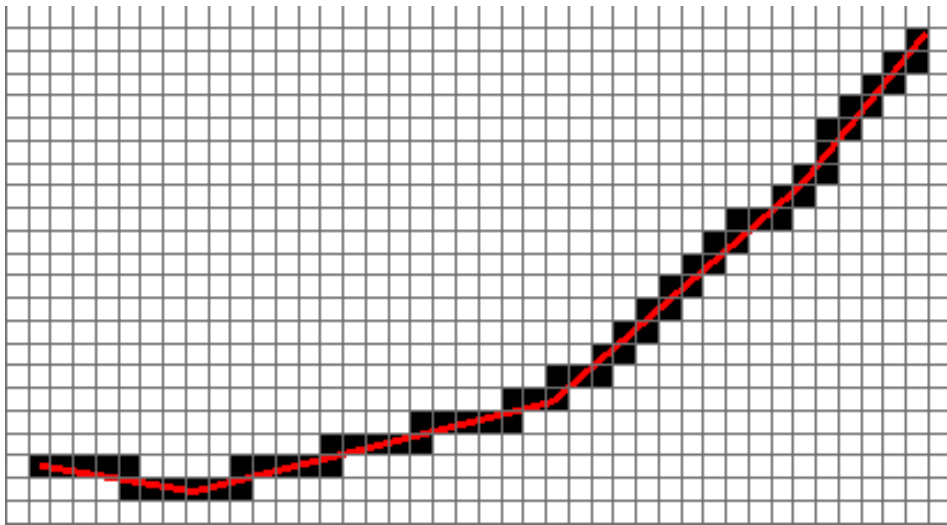
Click to choose
 Name of the area of use

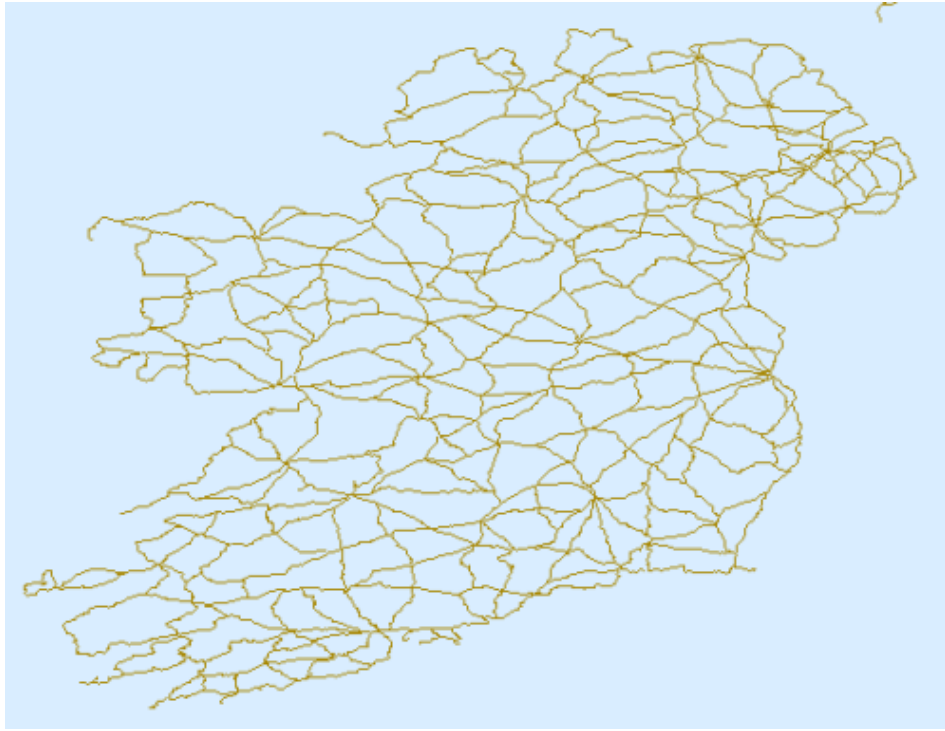
BBox: (dec. deg.)

| | | |
|----------------|----------------|---------------------------------------|
| North Latitude | West Longitude | <input type="button" value="Search"/> |
| South Latitude | East Longitude | |



| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 80 | 74 | 62 | 45 | 45 | 34 | 39 | 56 |
| 80 | 74 | 74 | 62 | 45 | 34 | 39 | 56 |
| 74 | 74 | 62 | 62 | 45 | 34 | 39 | 39 |
| 62 | 62 | 45 | 45 | 34 | 34 | 34 | 39 |
| 45 | 45 | 45 | 34 | 34 | 30 | 34 | 39 |







OpenStreetMap
The Free Wiki World Map

Search Where am I?

examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AG', or 'post offices near Lünen' more examples...

Help

- Help Centre
- Documentation
- Copyright & License

Community

- Community Blogs
- Foundation
- User Diaries

GPS Traces

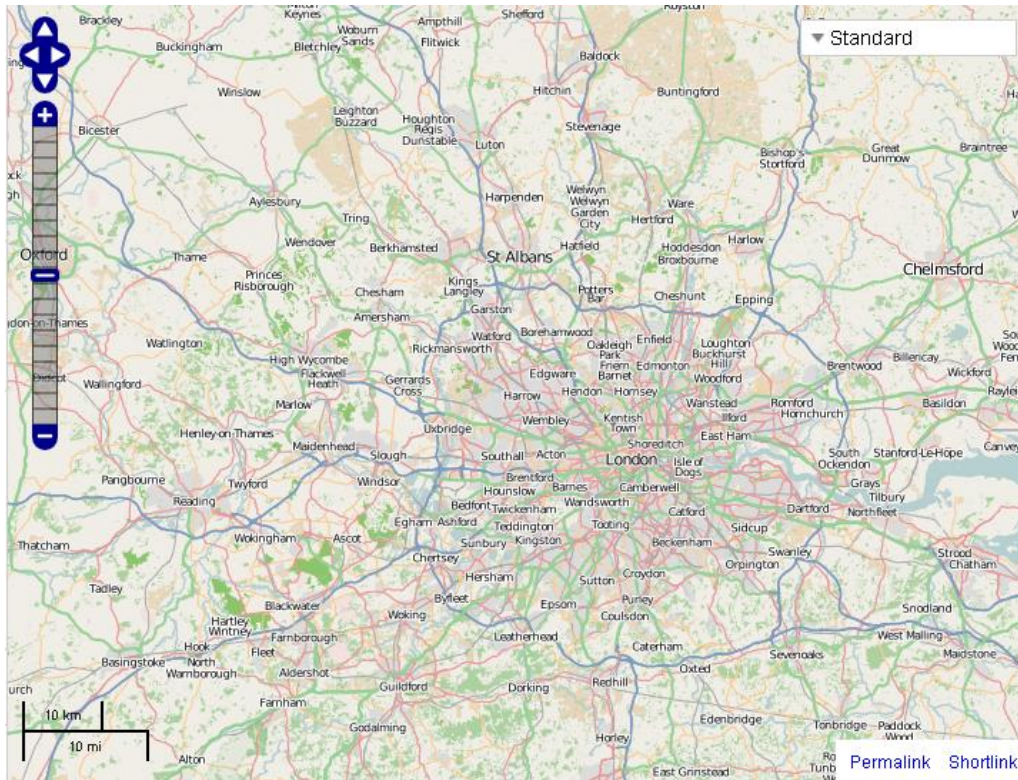
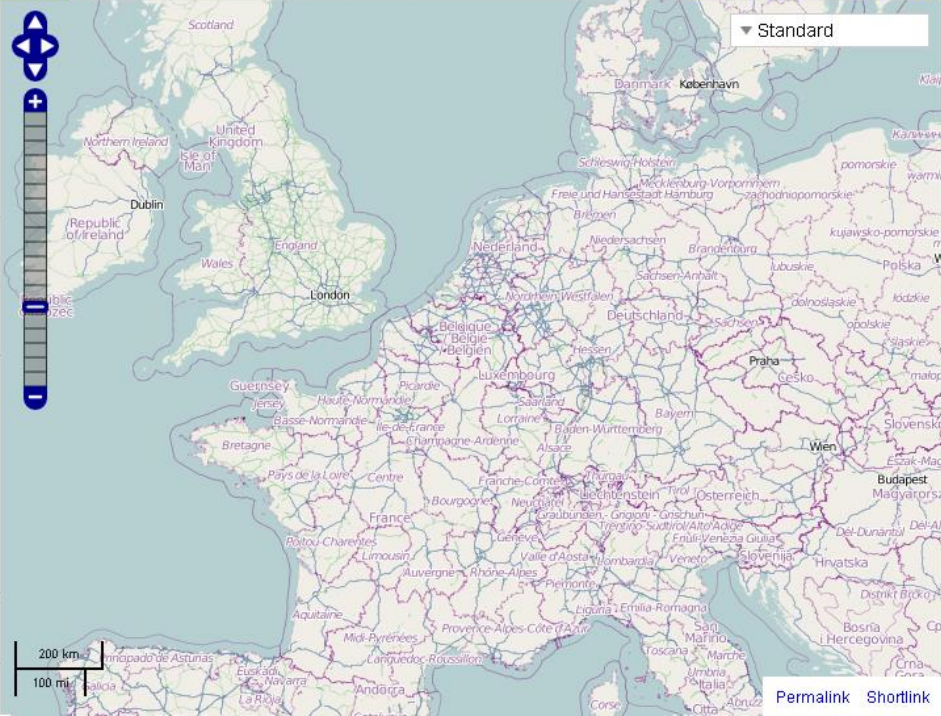
Map Key

[Make a Donation](#)

Hosting is supported by the UCL VR Centre, Imperial College London and Bytemark Hosting

View Edit History Export

Welcome, StefanIacovella | [inbox \(0\)](#) | [logout](#)



Search Results [Close](#)

Results from **OpenStreetMap Nominatim**

Secondary Road Piccadilly Circus, St. James's, City of Westminster, Greater London, London, England, SW1, United Kingdom

Primary Road Piccadilly Circus, St. James's, City of Westminster, Greater London, London, England, WC2H 8DP, United Kingdom

Bus Stop Piccadilly Circus, Regent Street, St. James's, City of Westminster, Greater London, London, England, W1B 5NB, United Kingdom

Subway Entrance Piccadilly Circus, Piccadilly Circus, St. James's, City of Westminster, Greater London, London, England, W1D 7ES, United Kingdom

Bus Stop Piccadilly Circus, Piccadilly, St. James's, City of Westminster, Greater London, London, England, W1B 5AF, United Kingdom

Bus Stop Piccadilly Circus, Man in moon passage, St. James's, City of Westminster, Greater London, London, England, W1B 5AF, United Kingdom

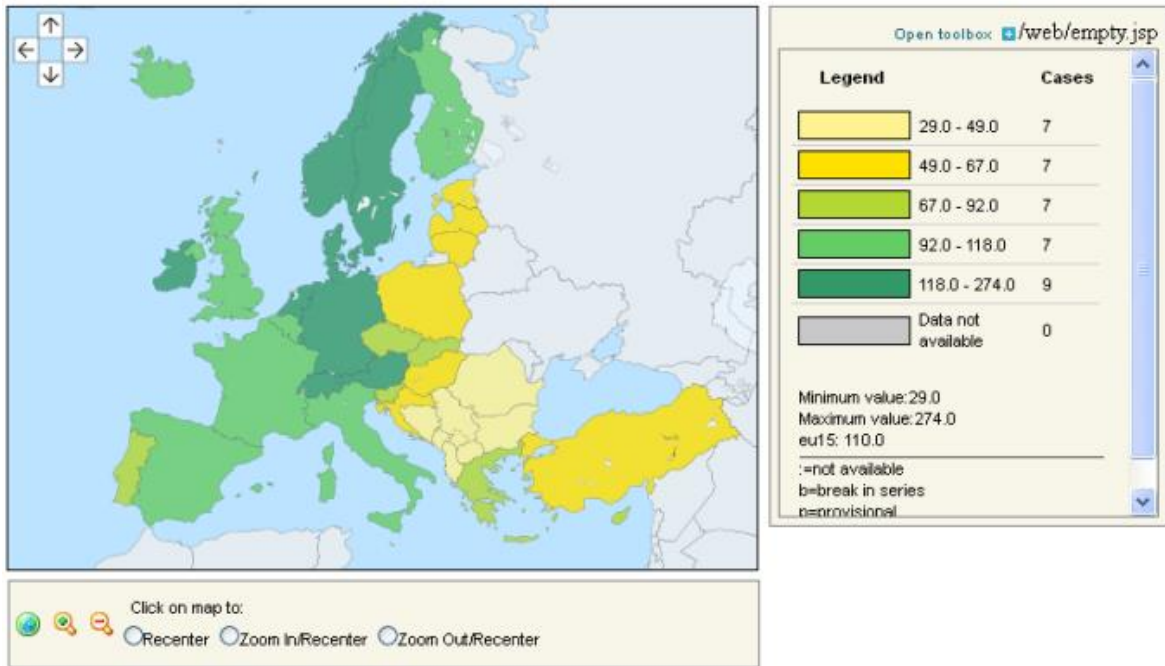


[Permalink](#) [Shortlink](#)

GDP per capita in PPS
Index (EU-27=100)

Code: tec00114

Data from 1st of June 2012 For most recent GDP data, consult dataset [more](#)



© EuroGeographics Association for the administrative boundaries



GDP ranking (GDP)

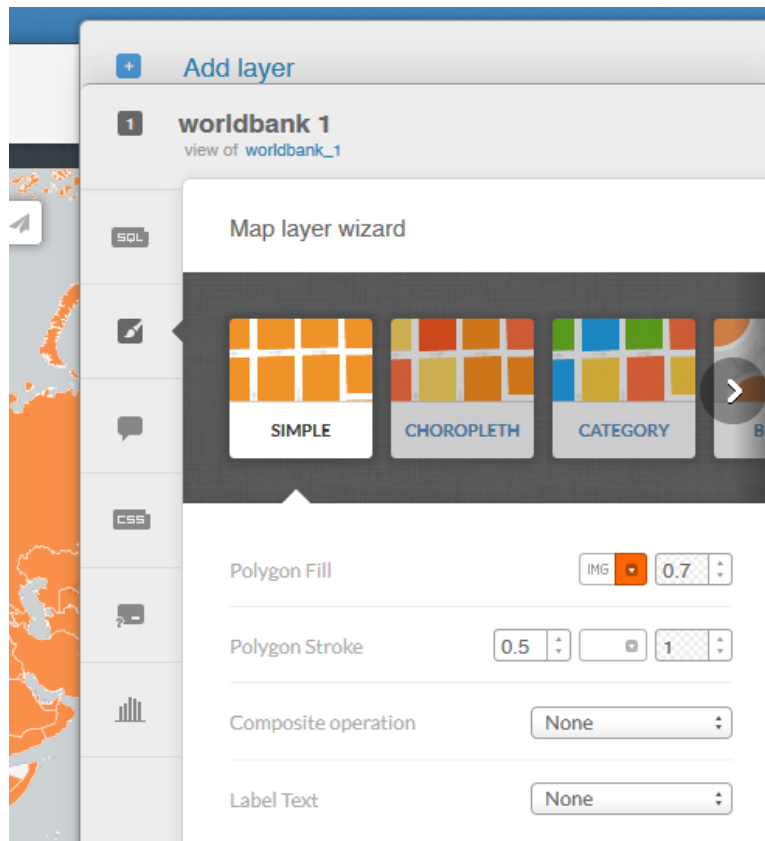
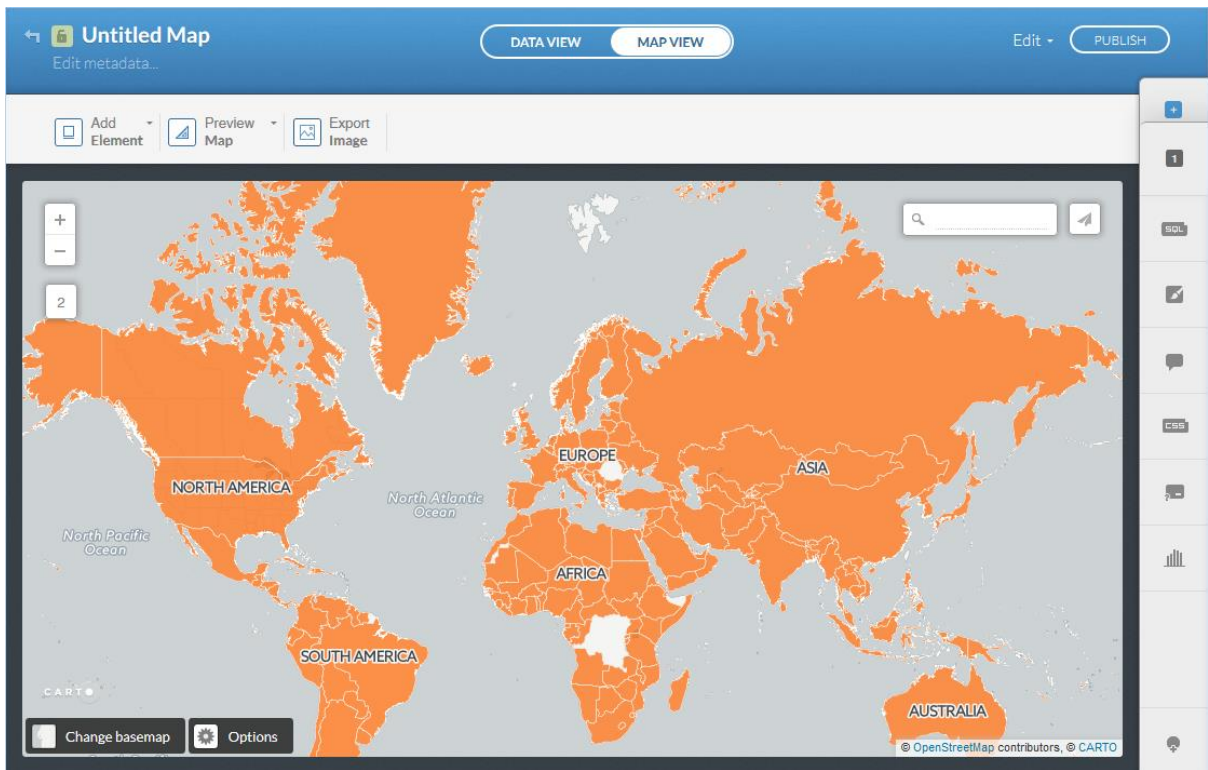


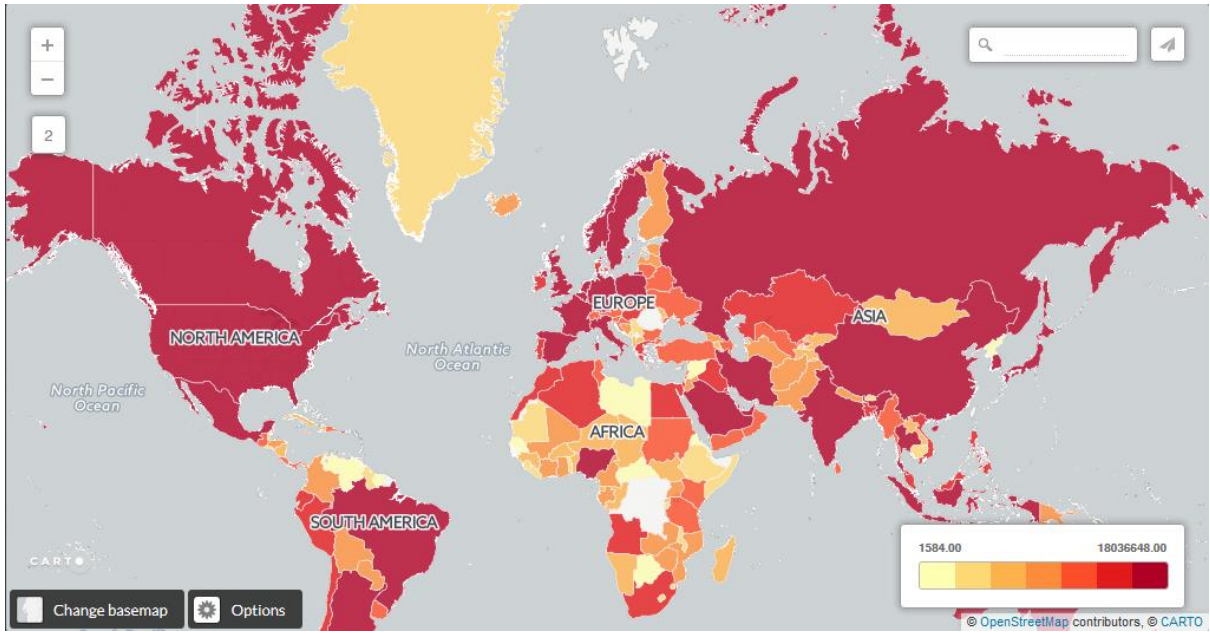
Gross domestic product ranking table.

Type: Time series | Periodicity: Annual | Last Updated: 01-Feb-2017 [See More +](#)

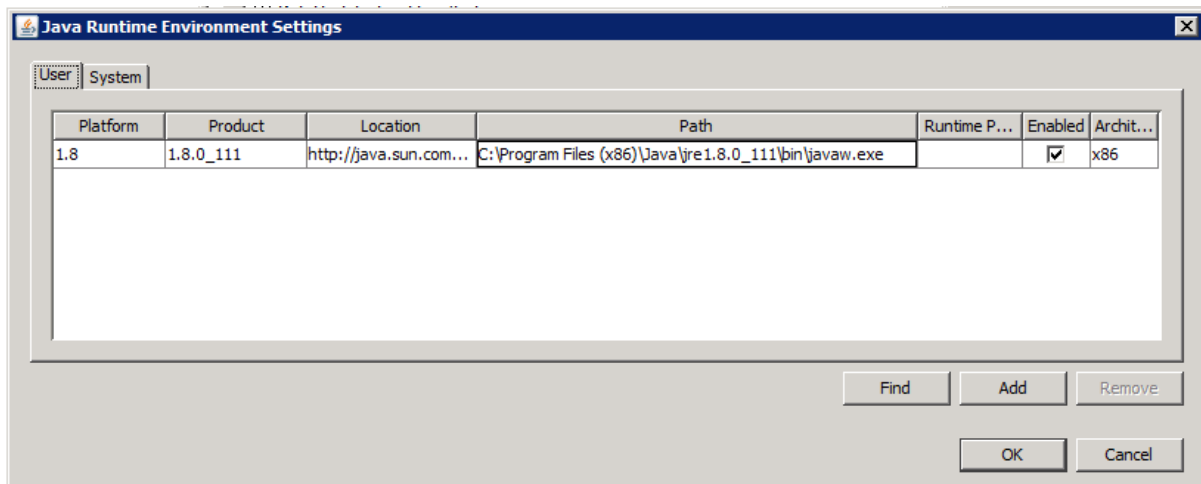
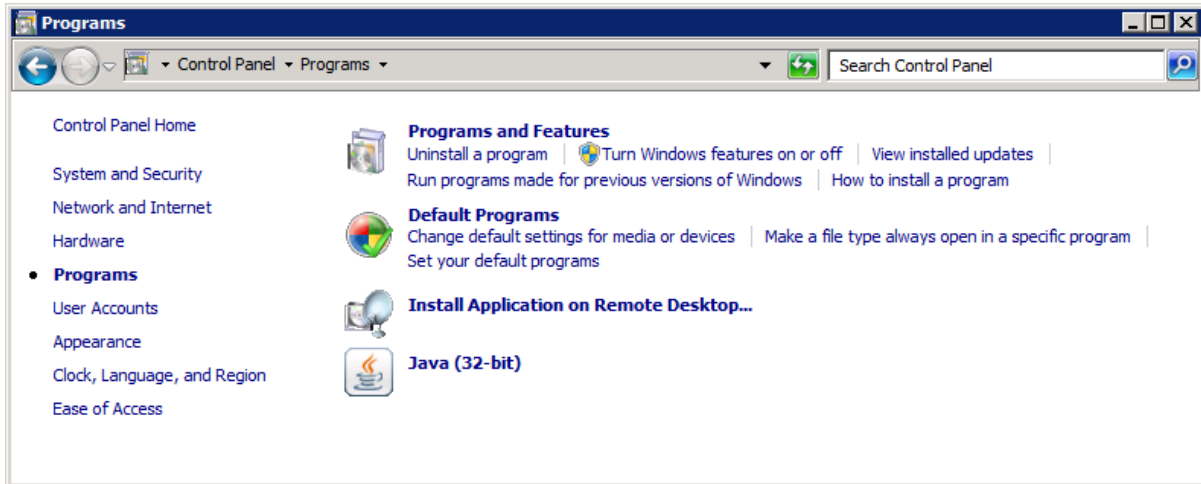
The hero banner features a red background with a blurred aerial view of a city street. At the top, a navigation bar includes the CARTO logo, links for Products, Solutions, Resources, Pricing, Blog, Login, Sign up, and a Request a Demo button. The main headline reads 'PREDICT THROUGH LOCATION' in large white letters. Below it, a sub-headline states: 'CARTO is an open, powerful, and intuitive platform for discovering and predicting the key insights underlying the location data in our world.'

The dashboard has a blue header with the CARTO logo, the user name 'iacovellas / Maps', and links for GUIDES, DOCUMENTATION, a notification bell, and a heart icon. The main area has a dark background with a map. On the left is a white browser window placeholder with a gear icon. On the right, the text reads: 'Hello, iacovellas!', 'Welcome to CARTO!', and 'Drag your data file to your dashboard to connect your dataset and create your first map.' A blue 'NEW MAP' button is located at the bottom right.





Chapter 2: Getting Started with GeoServer



Java SE Runtime Environment 8 Downloads

Do you want to run Java™ programs, or do you want to develop Java programs? If you want to run Java programs, but not develop them, download the Java Runtime Environment, or JRE™.

If you want to develop applications for Java, download the Java Development Kit, or JDK™. The JDK includes the JRE, so you do not have to download both separately.

JRE 8u121 [Checksum](#)

Java SE Runtime Environment 8u121

You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

Accept License Agreement Decline License Agreement

| Product / File Description | File Size | Download |
|----------------------------|-----------|--|
| Linux x86 | 56.92 MB | jre-8u121-linux-i586.rpm |
| Linux x86 | 72.76 MB | jre-8u121-linux-i586.tar.gz |
| Linux x64 | 54.39 MB | jre-8u121-linux-x64.rpm |
| Linux x64 | 70.26 MB | jre-8u121-linux-x64.tar.gz |
| Mac OS X | 62.28 MB | jre-8u121-macosx-x64.dmg |
| Mac OS X | 53.91 MB | jre-8u121-macosx-x64.tar.gz |
| Solaris SPARC 64-bit | 52.05 MB | jre-8u121-solaris-sparcv9.tar.gz |
| Solaris x64 | 49.9 MB | jre-8u121-solaris-x64.tar.gz |
| Windows x86 Online | 0.7 MB | jre-8u121-windows-i586-iftw.exe |
| Windows x86 Offline | 53.81 MB | jre-8u121-windows-i586.exe |
| Windows x86 | 59.17 MB | jre-8u121-windows-i586.tar.gz |
| Windows x64 Offline | 61.18 MB | jre-8u121-windows-x64.exe |
| Windows x64 | 62.66 MB | jre-8u121-windows-x64.tar.gz |

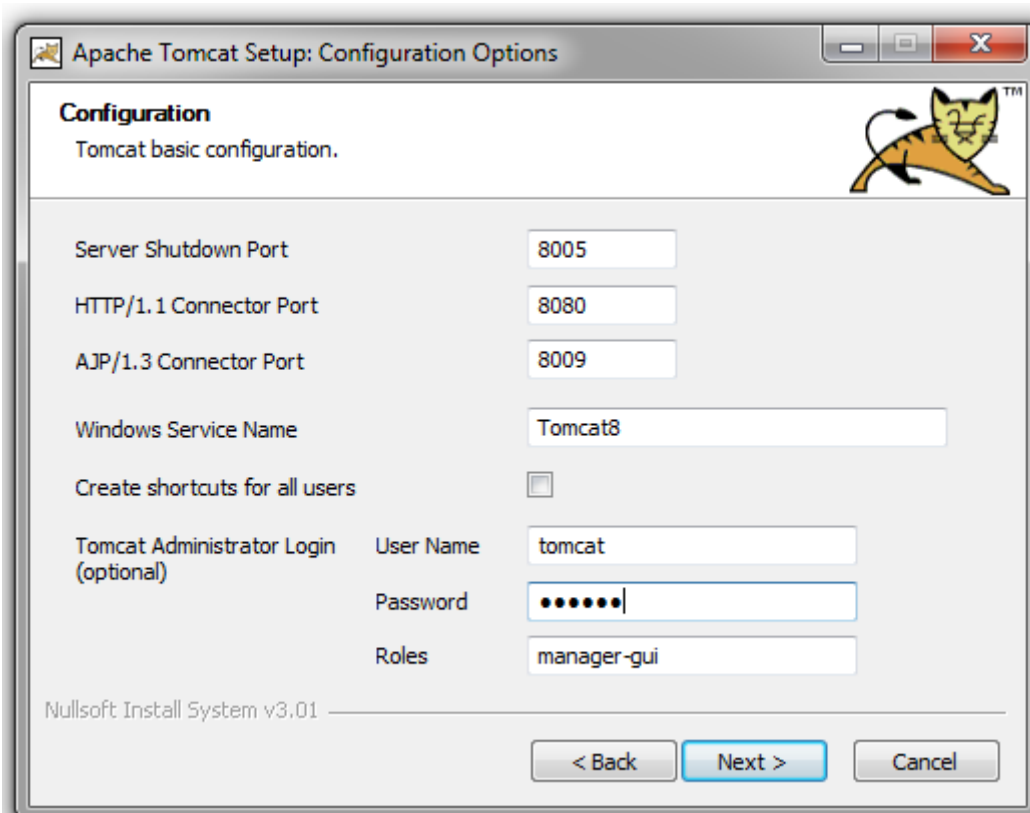
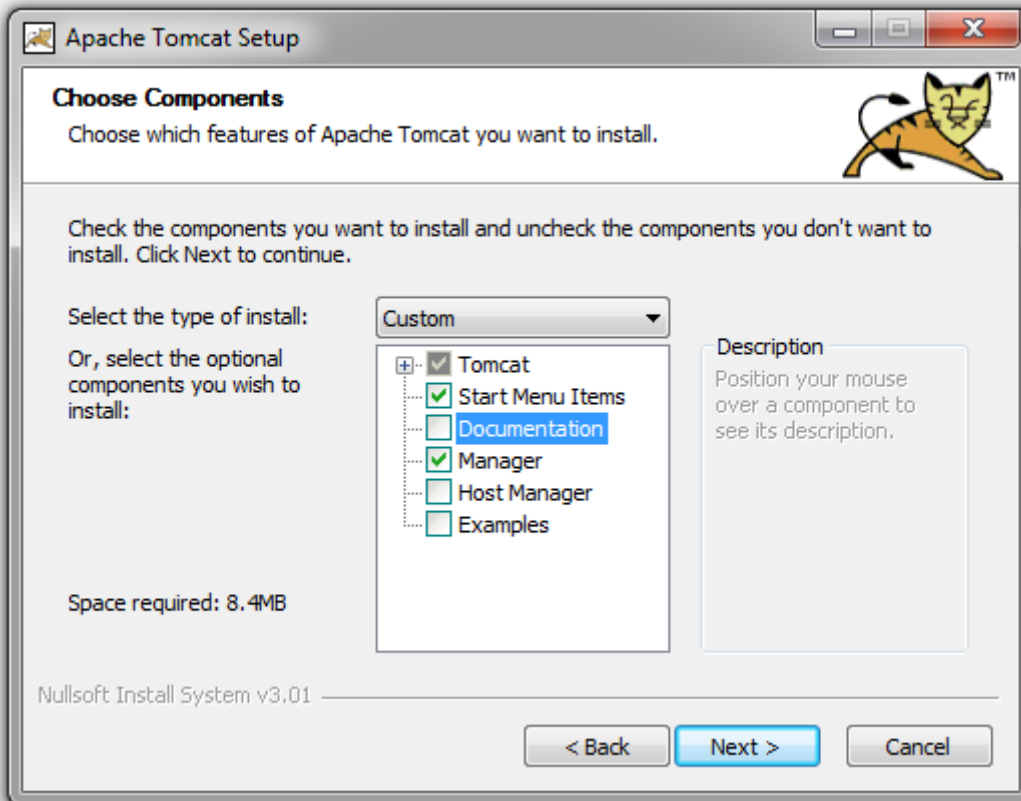


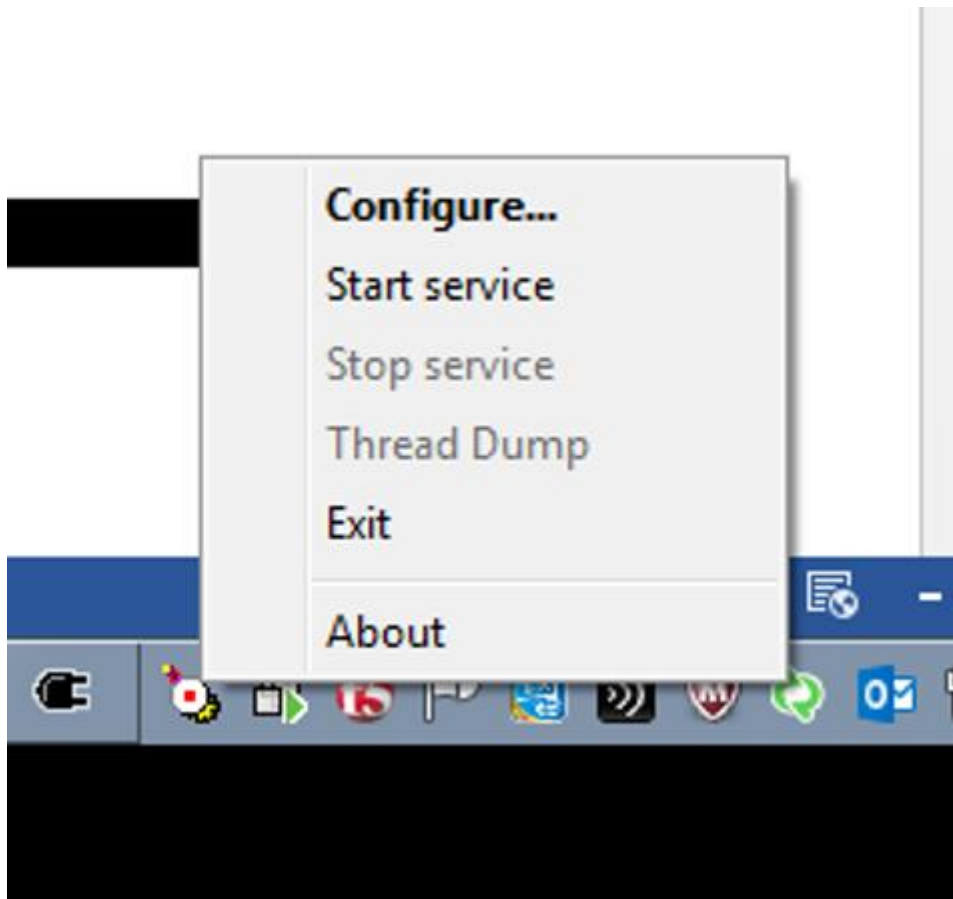
8.5.13

Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

- Core:
 - [zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [tar.gz](#) ([pgp](#), [md5](#), [sha1](#))
 - [32-bit Windows zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [64-bit Windows zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [32-bit/64-bit Windows Service Installer](#) ([pgp](#), [md5](#), [sha1](#))






localhost:8080

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/8.5.13

If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

Server Status
Manager App
Host Manager

Developer Quick Start

- [Tomcat Setup](#)
- [Realms & AAA](#)
- [Examples](#)
- [Servlet Specifications](#)
- [First Web Application](#)
- [JDBC DataSources](#)
- [Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 8.5 access to the manager application is split between different users. [Read more...](#)

[Release Notes](#)
[Changelog](#)
[Migration Guide](#)

Documentation

[Tomcat 8.5 Documentation](#)
[Tomcat 8.5 Configuration](#)
[Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

[Tomcat 8.5 Bug Database](#)

Getting Help

FAQ and Mailing Lists

The following mailing lists are available:

- [tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).
- [tomcat-users](#)
User support and discussion
- [taglibs-user](#)
User support and discussion for [Apache Taglibs](#)
- [tomcat-dev](#)

Choose a version of GeoServer to download.

Production

Development

Archived

Stable **GeoServer 2.11.0** 

The recommended release of GeoServer, tested and supported by the community.

GeoServer 2.10 releases:
2.10.2 2.10.1 2.10.0
2.10-RC1 2.10-beta 2.10-M0

Nightly builds for the 2.11.x series can be found [here](#).

Maintenance **GeoServer 2.10.2** 

Long term support, so you have time to upgrade.

GeoServer 2.9 releases:
2.9.4 2.9.3 2.9.2 2.9.1 2.9.0 2.9-RC1
2.9-beta2 2.9-beta 2.9-M0

Nightly builds for the 2.10.x series can be found [here](#).

Development



GeoServer master Development

Watch this space for beta releases!

If you are working closely with our development team (on the user-list or commercial support) you may be asked to test a nightly build using one of the links below.

Nightly builds for the master branch can be found [here](#).

About & Status

- [About GeoServer](#)

Data

- [Layer Preview](#)

Demos

Welcome

Welcome

This GeoServer belongs to The Ancient Geographers.

This GeoServer instance is running version **2.11.0**. For more information please contact the [administrator](#).

Service Capabilities

TMS

- 1.0.0

WMS-C

- 1.1.1

WMTS

- 1.0.0

WCS

- 1.1.0
- 1.1.1
- 1.1
- 1.0.0
- 2.0.1

WFS

- 1.0.0
- 1.1.0
- 2.0.0

WMS

- 1.1.1
- 1.3.0

About & Status

- [Server Status](#)
- [GeoServer Logs](#)
- [Contact Information](#)
- [About GeoServer](#)

Data

- [Layer Preview](#)
- [Workspaces](#)
- [Stores](#)
- [Layers](#)
- [Layer Groups](#)
- [Styles](#)

Services

- [WMTS](#)
- [WCS](#)
- [WFS](#)
- [WMS](#)

Settings

- [Global](#)
- [Image Processing](#)
- [Raster Access](#)

Welcome

Welcome

This GeoServer belongs to The Ancient Geographers.

19 Layers ➤ Add layers

9 Stores ➤ Add stores

7 Workspaces ➤ Create workspaces

This GeoServer instance is running version **2.11.0**. For more information please contact the [administrator](#).

Service Capabilities

TMS

- 1.0.0

WMS-C

- 1.1.1

WMTS

- 1.0.0

WCS

- 1.1.0
- 1.1.1
- 1.1
- 1.0.0
- 2.0.1

WFS

- 1.0.0
- 1.1.0
- 2.0.0

WMS

- 1.1.1
- 1.3.0

Security

- [Settings](#)
- [Authentication](#)
- [Passwords](#)
- [Users, Groups, Roles](#)
- [Data](#)
- [Services](#)

Passwords

Password settings

Active master password provider [Change password](#)

Change Master Password

Change the GeoServer master password

Master password provider
default

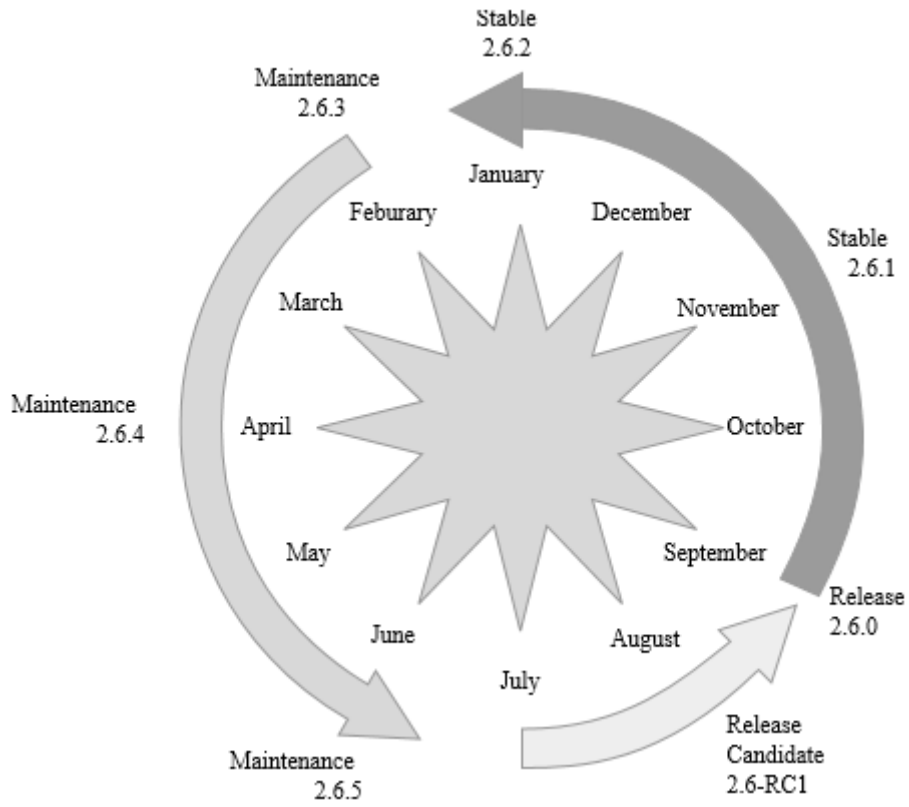
Current password

New password

Confirmation

[Change Password](#)

[Cancel](#)



Chapter 3: Exploring the Administrative Interface

The screenshot shows the GeoServer administrative interface. At the top right, it says "Logged in as admin." with a "Logout" button. The main content area is titled "Welcome" and includes a "Welcome" message, the text "This GeoServer belongs to Packt Publishing Ltd..", and a list of service capabilities. A warning message states: "No strong cryptography available, installation of the unrestricted policy jar files is recommended". Below this, it says "This GeoServer instance is running version 2.10.0. For more information please contact the administrator." The left sidebar contains several menu sections: "About & Status" (Server Status, GeoServer Logs, Contact Information, About GeoServer), "Data" (Layer Preview, Workspaces, Stores, Layers, Layer Groups, Styles), "Services" (WMTS, WCS, WFS, WMS), "Settings" (Global, Image Processing, Raster Access), "Tile Caching" (Tile Layers, Caching Defaults, Gridsets, Disk Quota, BlobStores), "Security" (Settings, Authentication, Passwords, Users, Groups, Roles, Data, Services), "Demos", and "Tools".

This inset image shows the "About & Status" menu section from the screenshot, listing the following items: "Server Status", "GeoServer Logs", "Contact Information", and "About GeoServer".

Server Status

Summary of server configuration and status

| | | Action |
|-----------------------|-------------------------|----------------------------|
| Data directory | C:\opt\GeoServerDataDir | |
| Locks | 0 | Free locks |

| | |
|-----------------------|--|
| Connections | 0 |
| Memory Usage | 137 MB / 1 GB Free memory |
| JVM Version | Oracle Corporation: 1.8.0_121 (Java HotSpot(TM) 64-Bit Server VM) |
| Java Rendering Engine | sun.dc.DuctusRenderingEngine |
| Available Fonts | GeoServer can access 571 different fonts. Full list of available fonts |

| | |
|---|----------------------------------|
| Native JAI | false |
| Native JAI ImageIO | false |
| JAI Maximum Memory | 1.007 MB |
| JAI Memory Usage | 0 KB Free memory |
| JAI Memory Threshold | 75% |
| Number of JAI Tile Threads | 7 |
| JAI Tile Thread Priority | 5 |
| ThreadPoolExecutor Core Pool Size | 5 |
| ThreadPoolExecutor Max Pool Size | 10 |
| ThreadPoolExecutor Keep Alive Time (ms) | 30000 |
| Update Sequence | 471 |

| | |
|---------------------------|------------------------|
| Resource Cache | Clear |
| Configuration and catalog | Reload |

GeoServer Logs

Show the GeoServer log file contents

Maximum console lines Refresh

```
PARAMETER["false_northing", 0.0],
UNIT["m", 1.0],
AXIS["Easting", EAST],
AXIS["Northing", NORTH],
AUTHORITY["EPSG","32632"]
Bbox = SRSEnvelope[47643.31161367567 : 775730.8429406164, 4600633.629156475 : 5538840.380933472]
RemoteOwsURL = null
Env = {}
FormatOptions = {}
Angle = 0.0
CQLFilter = null
Elevation = {}
FeatureId = null
StartIndex = null
ViewParams = null
Tiled = false
FeatureVersion = null
Version = 1.1.1
Request = GetMap
BaseUrl = http://localhost:8080/geoserver/
RequestCharset = UTF-8
Get = true
RawKvp = (REQUEST=GetMap, FORMAT=image/png, SRS=EPSG:32632, BBOX=47643.31161367567,4600633.629156475,775730.8429406164,5538840.380933472, VERSION=1.1.1, STYLES=, SERVICE=WMS, WIDTH=596, HEIGHT=768, TRANSPARENT=true, LAYERS=istat:province)
2017-04-26 15:10:33,276 DEBUG [wms.map] - Writing png image ...
2017-04-26 15:10:33,276 DEBUG [config.impl] - Could not locate service of type interface org.geoserver.wms.WMSInfo in workspace WorkspaceInfoImpl[istat], available services were [WMSInfoImpl[WMTS], WCSInfoImpl[WCS], WFSInfoImpl[WFS], WMSInfoImpl[WMS]]
2017-04-26 15:10:33,276 DEBUG [geotools.styling] - number of ifs set 1
2017-04-26 15:10:33,293 DEBUG [geoserver.filters] - Not compressing output for mimetype: image/png
2017-04-26 15:10:33,295 DEBUG [wms.map] - Writing png image ... done!
2017-04-26 15:10:33,296 DEBUG [filter.GeoServerSecurityContextPersistenceFilter$1] - SecurityContextHolder now cleared, as request processing completed
2017-04-26 15:10:35,572 DEBUG [security.IncludeQueryStringAntPathRequestMatcher] - Checking match of request : 'Path: /web/wicket/bookmarkable/org.geoserver.web.admin.logpage, QueryString: null'; against: '/web/**'
2017-04-26 15:10:35,573 DEBUG [security.IncludeQueryStringAntPathRequestMatcher] - Matched Path: /web/wicket/bookmarkable/org.geoserver.web.admin.logpage, QueryString: null with /web/**
2017-04-26 15:10:35,573 TRACE [ows.OWSHandlerMapping] - No handler mapping found for [/web/wicket/bookmarkable/org.geoserver.web.admin.LogPage]
2017-04-26 15:10:35,574 TRACE [ows.OWSHandlerMapping] - No handler mapping found for [/web/wicket/bookmarkable/org.geoserver.web.admin.LogPage]
2017-04-26 15:10:35,574 TRACE [ows.OWSHandlerMapping] - No handler mapping found for [/web/wicket/bookmarkable/org.geoserver.web.admin.LogPage]
2017-04-26 15:10:35,575 TRACE [ows.OWSHandlerMapping] - No handler mapping found for [/web/wicket/bookmarkable/org.geoserver.web.admin.LogPage]
2017-04-26 15:10:35,576 DEBUG [org.geoserver] - Thread 50 locking in mode WRITE
2017-04-26 15:10:35,576 DEBUG [org.geoserver] - Thread 50 got the lock in mode WRITE
```

[Download the full log file](#)

About GeoServer

General information about GeoServer

Build Information

GeoServer Version
2.10.0
Git Revision
94615dac4a2056ed47e2e67fa823ea63325058cf
Build Date
28-Oct-2016 09:41
GeoTools Version
16.0 (rev ae16e116c58d9f4bc3fcec2566ca3dd8d92120)
GeoWebCache Version
1.10.0 (rev 1.10.x/8908bc23e322f84849517758e5134167e4feb73d)

More Information

GeoServer publishes data from any major spatial data source using open standards. GeoServer implements several Open Geospatial Consortium protocols including Web Map Service (WMS), Web Feature Service (WFS), Web Coverage Service (WCS) and Web Map Tile Service (WMTS). Additional extensions are available for Catalogue Service (CSW) and Web Processing Service (WPS).

This web administration interface allows for easy configuration of GeoServer. After logging in, please use the menus on the left to navigate through the interface.

The About and Status menu lists technical details about the running GeoServer instance.

The Data menu is used to configure data sources and styling.

The Service menu provides configuration for web services.

The Settings menu provides configurations options that apply to all services (i.e. server-wide).

The Tile Caching menu allows configuration of the embedded tile cache.

The Security menu allows configuration of access controls (authentication and authorization).

The Demos menu provides examples of using web services, and request builders to help you assemble your own examples.

Useful Links:

- [Documentation](#)
- [Wiki](#)
- [Issue Tracker](#)

Data

-  Layer Preview
-  Workspaces
-  Stores
-  Layers
-  Layer Groups
-  Styles

Layer Preview



List of all layers configured in GeoServer and provides previews in various formats for each.

<< < 1 > >> Results 1 to 22 (out of 22 items) Search

| Type | Title | Name | Common Formats | All Formats |
|---|-------------------------------|-----------------|--------------------|----------------|
|  | A sample ArcGrid file | nurc:Arc_Sample | OpenLayers KML | Select one |
|  | Pk50095 | nurc:Pk50095 | OpenLayers KML | Select one |
|  | mosaic | nurc:mosaic | OpenLayers KML | WMS |
|  | North America sample imagery | nurc:Img_Sample | OpenLayers KML | AtomPub |
|  | Spearfish archeological sites | sf:archsites | OpenLayers KML GML | GIF |
|  | Spearfish bug locations | sf:bugsites | OpenLayers KML GML | GeoRSS |
|  | Spearfish restricted areas | sf:restricted | OpenLayers KML GML | GeoTiff |
|  | Spearfish roads | sf:roads | OpenLayers KML GML | GeoTiff 8-bits |
|  | Spearfish streams | sf:streams | OpenLayers KML GML | JPEG |

Workspaces

Manage GeoServer workspaces


-  Add new workspace
-  Remove selected workspace(s)

<< < 1 > >> Results 1 to 7 (out of 7 items) Search





| <input type="checkbox"/> Workspace Name | Default |
|--|---------|
| <input type="checkbox"/> cite | ✓ |
| <input type="checkbox"/> ft.geosolutions | |
| <input type="checkbox"/> nurc | |
| <input type="checkbox"/> sde | |

Stores

Manage the stores providing data to GeoServer



-  Add new Store
-  Remove selected Stores

<< < 1 > >> Results 1 to 9 (out of 9 items)






| <input type="checkbox"/> | Data Type | Workspace | Store Name | Type | Enabled? |
|--------------------------|---|-----------|---------------|---|----------|
| <input type="checkbox"/> |  | nurc | arcGridSample | ArcGrid | ✓ |
| <input type="checkbox"/> |  | nurc | img_sample2 | WorldImage | ✓ |
| <input type="checkbox"/> |  | nurc | mosaic | ImageMosaic | ✓ |
| <input type="checkbox"/> |  | tiger | nyc | Directory of spatial files (shapefiles) | ✓ |

Layers

Manage the layers being published by GeoServer



-  Add a new layer
-  Remove selected layers

<< < 1 > >> Results 1 to 19 (out of 19 items)

| <input type="checkbox"/> | Type | Title | Name | Store | Enabled | Native SRS |
|--------------------------|---|-------------------------------|-----------------|------------------|---------|------------|
| <input type="checkbox"/> |  | A sample ArcGrid file | nurc:Arc_Sample | arcGridSample | ✓ | EPSG:4326 |
| <input type="checkbox"/> |  | Pk50095 | nurc:Pk50095 | img_sample2 | ✓ | EPSG:32633 |
| <input type="checkbox"/> |  | mosaic | nurc:mosaic | mosaic | ✓ | EPSG:4326 |
| <input type="checkbox"/> |  | North America sample imagery | nurc:Img_Sample | worldImageSample | ✓ | EPSG:4326 |
| <input type="checkbox"/> |  | Spearfish archeological sites | sf:archsites | sf | ✓ | EPSG:26713 |


Styles

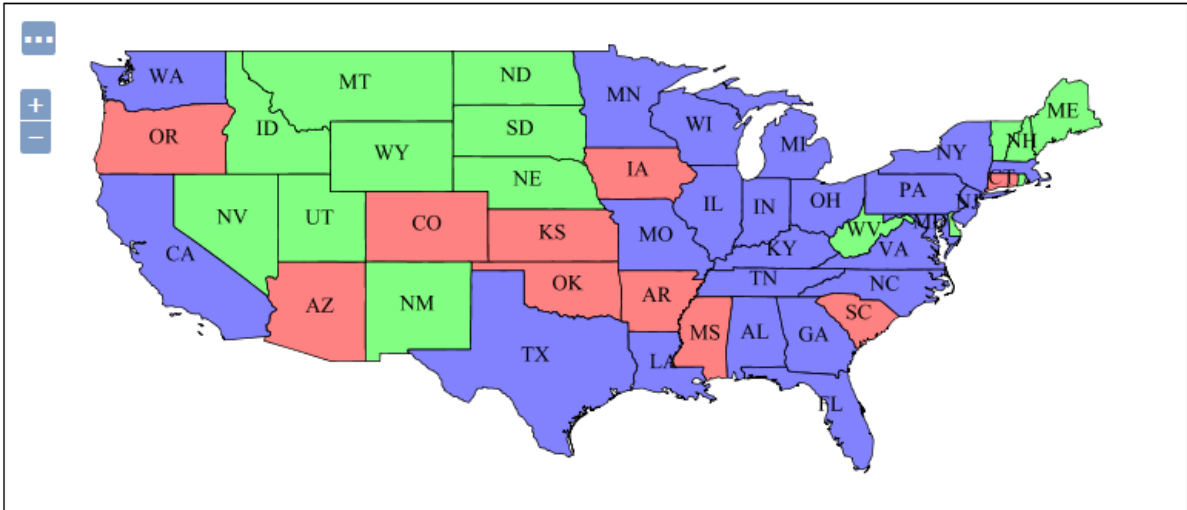
Manage the Styles published by GeoServer

-  Add a new style
-  Removed selected style(s)

<< < 1 > >> Results 1 to 21 (out of 21 items)

| <input type="checkbox"/> | Style Name | Workspace |
|--------------------------|------------|-----------|
| <input type="checkbox"/> | burg | |
| <input type="checkbox"/> | capitals | |
| <input type="checkbox"/> | cite_lakes | |
| <input type="checkbox"/> | dem | |

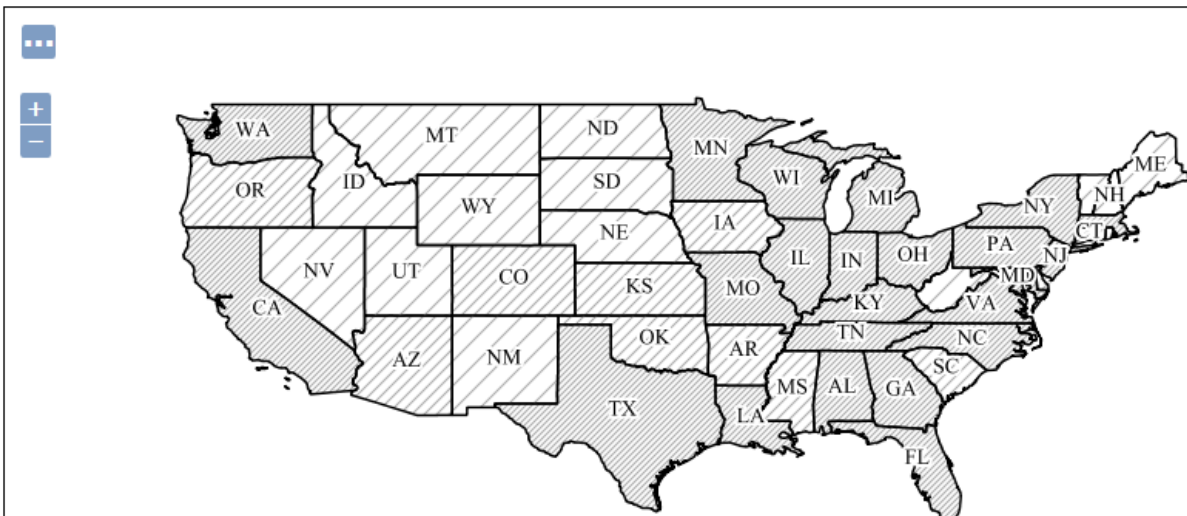
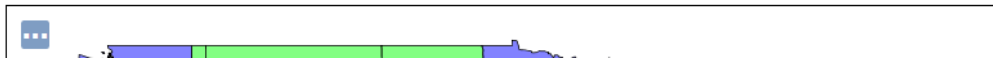
 USA Population topp:states [OpenLayers](#) [KML](#) [GML](#)



Scale = 1 : 35M

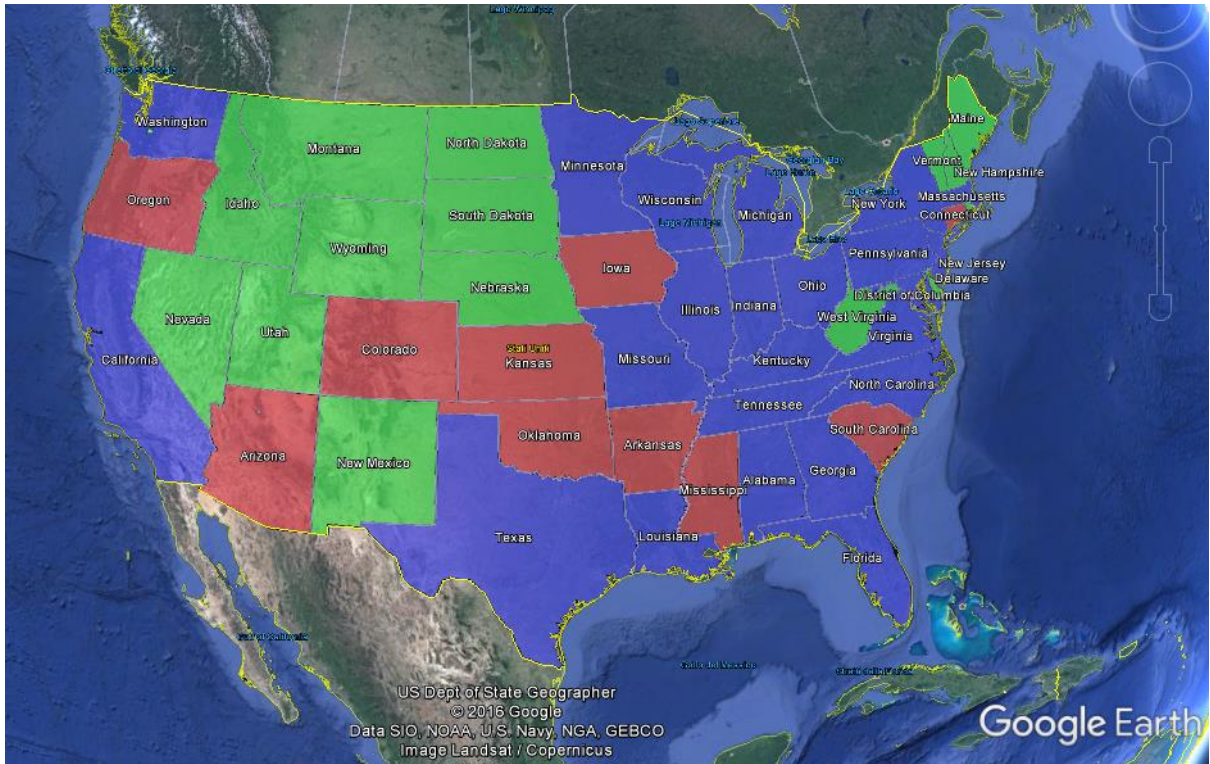
Click on the map to get feature info

WMS version: 1.1.1 | Tiling: Single tile | Antialias: Full | Format: PNG 24bit | Styles: Default | Width/Height: Auto | Auto
 Filter: CQL | [Apply](#) [Reset](#)




Scale = 1 : 35M

Click on the map to get feature info



Services

-  WMTS
 -  WCS
 -  WFS
 -  WMS
-

Resource consumption limits

Max rendering memory (KB)

Max rendering time (s)

Max rendering errors (count)

Watermark Settings

Enable watermark

Watermark URL

[Browse](#)

Watermark Transparency (0 - 100)

Watermark Position

Bottom right

PNG Options

Compression level (0-100, default 25)

JPEG Options

Compression level (0-100, default 25)

Features

Maximum number of features

Maximum number of features for preview (Values ≤ 0 use the maximum number of features)

Service Level

- Basic
- Transactional
- Complete

WMS

1.1.1

1.3.0

-<Layer>

<Title>GeoServer Web Map Service</Title>

-<Abstract>

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

</Abstract>

<!--All supported EPSG projections:-->

<CRS>AUTO:42001</CRS>

<CRS>AUTO:42002</CRS>

<CRS>AUTO:42003</CRS>

<CRS>AUTO:42004</CRS>

<CRS>AUTO:97001</CRS>

<CRS>AUTO:97002</CRS>

<CRS>EPSG:WGS84(DD)</CRS>

Limited SRS list

4326, 3857, 4269

Output bounding box for every supported CRS

<!--Limited list of EPSG projections:-->

<CRS>EPSG:3857</CRS>

<CRS>EPSG:4269</CRS>

<CRS>EPSG:4326</CRS>

<CRS>CRS:84</CRS>

-<EX_GeographicBoundingBox>

<westBoundLongitude>-180.0</westBoundLongitude>

<eastBoundLongitude>180.0</eastBoundLongitude>

<southBoundLatitude>-90.0</southBoundLatitude>

<northBoundLatitude>90.0</northBoundLatitude>

</EX_GeographicBoundingBox>

<BoundingBox CRS="CRS:84" minx="-180.0" miny="-90.0" maxx="180.0" maxy="90.0"/>

Settings

 Global

 Image Processing






 Raster Access

Verbose XML output (pretty print)







Logging profile

- DEFAULT_LOGGING.properties
- GEOSEVER_DEVELOPER_LOGGING.properties
- GEOTOOLS_DEVELOPER_LOGGING.properties
- PRODUCTION_LOGGING.properties
- QUIET_LOGGING.properties
- TEST_LOGGING.properties
- VERBOSE_LOGGING.properties**

Tile Caching

-  Tile Layers
-  Caching Defaults
-  Gridsets
-  Disk Quota
-  BlobStores

Security

-  Settings
 -  Authentication
 -  Passwords
 -  Users, Groups, Roles
 -  Data
 -  Services
-

Security Settings

Configure security settings

Active role service

default ▾

Encryption

Encrypt web admin URL parameters

Password encryption

Weak PBE ▾

⚠ No strong cryptography available, installation of the unrestricted policy jar files is recommended

Users, Groups, and Roles

Manage user group and role services

Services

Users/Groups

Roles

▼ default


 Edit

 Add new user

 Remove Selected


 Remove Selected and remove role associations


 Search

| <input type="checkbox"/> | Username | Enabled | Has Attributes |
|--------------------------|----------|---|----------------|
| <input type="checkbox"/> | admin |  | |

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

 Add new group

 Remove Selected

 Remove Selected and remove role associations

 Search

| <input type="checkbox"/> | Groupname | Enabled |
|--------------------------|-----------|---------|
|--------------------------|-----------|---------|

<< < > >> Results 0 to 0 (out of 0 items)

Data Security

Manage data security: edit, add and remove access rules

-  Add new rule
-  Remove Selected(s)

<< < 1 > >> Results 1 to 2 (out of 2 items)

| <input type="checkbox"/> | Rule path | Roles |
|--------------------------|-----------|-------------------|
| <input type="checkbox"/> | *.*.r | * |
| <input type="checkbox"/> | *.*.w | GROUP_ADMIN,ADMIN |

<< < 1 > >> Results 1 to 2 (out of 2 items)

Catalog Mode

- HIDE
- MIXED
- CHALLENGE





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

Request:

URL:

    12pt

Body

```
1 <!-- Gets the WFS capabilities. For WMS capabilities, see WMS_getCapabilities demo-->
2 <!--
3
4     This will briefly describe all the layers (FeatureTypes) in that you have
5     in your WFS server, plus more generic information about what your server
6     supports.
7
8     For more information about a particular FeatureType, use the
9     WFS_describeFeatureType.xml demo!
10
11 -->
12 <GetCapabilities
13   service="WFS"
14   xmlns="http://www.opengis.net/wfs"
15   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
16   xsi:schemaLocation="http://www.opengis.net/wfs http://schemas.opengis.net/wfs/1.1.0/wfs.xsd"/>
17
```

```

- <wfs:WFS_Capabilities version="1.1.0"
  xsi:schemaLocation="http://www.opengis.net/wfs http://localhost:8080/geoserver
  /schemas/wfs/1.1.0/wfs.xsd" updateSequence="153">
- <ows:ServiceIdentification>
  <ows:Title>GeoServer Web Feature Service</ows:Title>
- <ows:Abstract>
  This is the reference implementation of WFS 1.0.0 and WFS 1.1.0, supports
  all WFS operations including Transaction.
</ows:Abstract>
- <ows:Keywords>
  <ows:Keyword>WFS</ows:Keyword>
  <ows:Keyword>WMS</ows:Keyword>
  <ows:Keyword>GEOSERVER</ows:Keyword>
</ows:Keywords>
  <ows:ServiceType>WFS</ows:ServiceType>
  <ows:ServiceTypeVersion>1.1.0</ows:ServiceTypeVersion>
  <ows:Fees>NONE</ows:Fees>
  <ows:AccessConstraints>NONE</ows:AccessConstraints>
</ows:ServiceIdentification>

```

Request

URL

Body

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!--
3   This example demonstrates a WFS 2.0 GetFeature POST request.
4   This filter selects a single feature with id "bugsites.3".
5
6   See also:
7   WFS Standard: http://www.opengeospatial.org/standards/wfs
8   Filter Encoding Standard: http://www.opengeospatial.org/standards/filter
9 -->
10 <wfs:GetFeature service="WFS" version="2.0.0"
11   xmlns:wfs="http://www.opengis.net/wfs/2.0" xmlns:fes="http://www.opengis.net/fes/2.0"
12   xmlns:sf="http://www.openplans.org/spearfish" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
13   instance"
14   xsi:schemaLocation="http://www.opengis.net/wfs/2.0 http://schemas.opengis.net/wfs/2.0/wfs.xsd">
15   <wfs:Query typeName="topp:states">
16     <fes:Filter>
17       <fes:ResourceId rid="states.11"/>
18     </fes:Filter>
19   </wfs:Query>
20 </wfs:GetFeature>
21

```

```

- <wfs:FeatureCollection numberMatched="1" numberReturned="1" timeStamp="2017-06-09T15:49:41.266Z" xsi:schemaLocation="http://www.opengis.net/wfs/2.0 http://localhost:8080/geoserver/schemas/wfs/2.0/wfs.xsd http://www.openplans.org/topp http://localhost:8080/geoserver/wfs?service=WFS&version=2.0.0&request=DescribeFeatureType&typeName=topp%3Astates http://www.opengis.net/gml/3.2 http://localhost:8080/geoserver/schemas/gml/3.2.1/gml.xsd">
- <wfs:member>
- <topp:states gml:id="states.11">
- <topp:the_geom>
- <gml:MultiSurface srsName="urn:ogc:def:crs:EPSG::4326" srsDimension="2">
- <gml:surfaceMember>
- <gml:Polygon>
- <gml:exterior>
- <gml:LinearRing>
- <gml:posList>
33.027668 -114.519844 33.036743 -114.558304 33.026962 -114.609138 33.033527 -114.63179 33.044373 -114.644371 33.038883 -114.663162 33.095345 -114.710564 33.122337 -114.708672
33.167213 -114.67733 33.22456 -114.67926 33.239223 -114.68692 33.267982 -114.676903 33.305676 -114.734634 33.352386 -114.702812 33.41103 -114.724144 33.419086 -114.644302 33.439396
-114.629784 33.468571 -114.6203 33.486099 -114.597298 33.509418 -114.586273 33.560047 -114.528633 33.580482 -114.539459 33.622112 -114.526382 33.665482 -114.524475 33.682713
-114.535645 33.708347 -114.494888 33.743179 -114.509499 33.771694 -114.503769 33.826012 -114.520332 33.841946 -114.510933 33.862907 -114.520172 33.925018 -114.497398 33.952396
-114.524841 33.965046 -114.517418 34.029827 -114.428192 34.078316 -114.423241 34.102638 -114.409378 34.141281 -114.322014 34.171215 -114.284584 34.186207 -114.234993 34.266964
-114.149152 34.272606 -114.124451 34.314533 -114.133347 34.336433 -114.152634 34.365192 -114.181297 34.405476 -114.257057 34.412056 -114.282608 34.435741 -114.302078 34.454861
-114.331848 34.459667 -114.375717 34.477074 -114.383072 34.536552 -114.376038 34.583714 -114.408951 34.598953 -114.43351 34.610886 -114.421478 34.709866 -114.464844 34.744751
-114.497009 34.748905 -114.524757 34.759953 -114.541245 34.831856 -114.56942 34.87553 -114.626465 34.919498 -114.629677 34.943607 -114.620209 34.99765 -114.631477 34.998913
-114.62027 35.041862 -114.63298 35.076057 -114.594833 35.118656 -114.635109 35.133907 -114.625641 35.132561 -114.581818 35.140068 -114.571457 35.174347 -114.560242 35.220184
-114.558784 35.304771 -114.58709 35.358383 -114.588783 35.450768 -114.644592 35.515762 -114.67141 35.546646 -114.648987 35.584843 -114.652328 35.611359 -114.639061 35.646595
-114.653259 35.65641 -114.667679 35.693111 -114.664284 35.732609 -114.688011 35.764717 -114.681931 35.847458 -114.689056 35.870975 -114.661652 35.880489 -114.660789 35.911629
-114.698463 35.987667 -114.735397 36.036777 -114.716838 36.058773 -114.728149 36.085983 -114.727333 36.105202 -114.711945 36.141987 -114.620796 36.138355 -114.598122 36.155109
-114.529762 36.124729 -114.465805 36.121071 -114.443138 36.151009 -114.379997 36.137497 -114.34343 36.111454 -114.315292 36.087124 -114.303055 36.062248 -114.306786 36.018345
-114.232674 36.017269 -114.205971 36.041744 -114.128227 36.121105 -114.106979 36.193993 -114.044312 36.216038 -114.036598 36.841873 -114.042915 36.996563 -114.043137 36.996243
-112.899216 36.998009 -112.541763 36.995506 -112.236511 37.00172 -111.355453 37.002491 -110.739372 37.003929 -110.483398 36.991749 -110.451546 36.992065 -109.996399 36.996643
-109.047821 35.996655 -109.047195 34.954613 -109.045998 34.59174 -109.048012 33.783249 -109.049721 33.205101 -109.049904 32.77948 -109.050728 32.441967 -109.048882 31.343348
-109.045006 31.337559 -110.451942 31.335535 -111.07132 31.431438 -111.368866 32.04356 -113.328377 32.487114 -114.820969 32.615993 -114.808601 32.72081 -114.72126 32.734966
-114.711906 32.741379 -114.693253 32.726238 -114.603157 32.735584 -114.602737 32.737392 -114.571175 32.748783 -114.571426 32.74889 -114.559967 32.760708 -114.560799 32.760704

```

```

</gml:LinearRing>
</gml:exterior>
</gml:Polygon>
</gml:surfaceMember>
</gml:MultiSurface>
</topp:the_geom>
<topp:STATE_NAME>Florida</topp:STATE_NAME>
<topp:STATE_FIPS>12</topp:STATE_FIPS>
<topp:SUB_REGION>S Atl</topp:SUB_REGION>
<topp:STATE_ABBR>FL</topp:STATE_ABBR>
<topp:LAND_KM>139852.123</topp:LAND_KM>
<topp:WATER_KM>30456.797</topp:WATER_KM>
<topp:PERSONS>1.2937926E7</topp:PERSONS>
<topp:FAMILIES>3511825.0</topp:FAMILIES>
<topp:HOUSHOLD>5134869.0</topp:HOUSHOLD>
<topp:MALE>6261719.0</topp:MALE>
<topp:FEMALE>6676207.0</topp:FEMALE>
<topp:WORKERS>4943568.0</topp:WORKERS>
<topp:DRVALONE>4468021.0</topp:DRVALONE>
<topp:CARPOOL>818546.0</topp:CARPOOL>
<topp:PUBTRANS>116352.0</topp:PUBTRANS>
<topp:EMPLOYED>5810467.0</topp:EMPLOYED>
<topp:UNEMPLOY>356769.0</topp:UNEMPLOY>
<topp:SERVICE>1683987.0</topp:SERVICE>
<topp:MANUAL>675050.0</topp:MANUAL>
<topp:P_MALE>0.484</topp:P_MALE>

```

SRS List

List of SRS known to GeoServer. You can choose the authority, filter based on the code and description, and gather details on each code

<< < 1 2 3 4 5 > >> Results 1 to 25 (out of 5.846 items)

| Code | Description |
|------|--|
| 2000 | Anguilla 1957 / British West Indies Grid |
| 2001 | Antigua 1943 / British West Indies Grid |
| 2002 | Dominica 1945 / British West Indies Grid |
| 2003 | Grenada 1953 / British West Indies Grid |
| 2004 | Montserrat 1958 / British West Indies Grid |
| 2005 | St. Kitts 1955 / British West Indies Grid |

SRS List

List of SRS known to GeoServer. You can choose the authority, filter based on the code and description, and gather details on each code

<< < 1 > >> Results 1 to 25 (out of 1 matches from 5.846 items)

| Code | Description |
|------|-------------|
| 4326 | WGS 84 |

<< < 1 > >> Results 1 to 25 (out of 1 matches from 5.846 items)

WKT

```
GEOGCS["WGS 84",  
  DATUM["World Geodetic System 1984",  
    SPHEROID["WGS 84", 6378137.0, 298.257223563, AUTHORITY["EPSG","7030"]],  
    AUTHORITY["EPSG","6326"]],  
  PRIMEM["Greenwich", 0.0, AUTHORITY["EPSG","8901"]],  
  UNIT["degree", 0.017453292519943295],  
  AXIS["Geodetic longitude", EAST],  
  AXIS["Geodetic latitude", NORTH],  
  AUTHORITY["EPSG","4326"]]
```

Area of validity







90°00'00,0"N, 180°00'00,0"W - 90°00'00,0"S, 180°00'00,0"E

World.








Chapter 4: Adding Your Data


Vector Data Sources

-  [Directory of spatial files \(shapefiles\)](#) - Takes a directory of shapefiles and exposes it as a data store
-  [PostGIS](#) - PostGIS Database
-  [PostGIS \(JNDI\)](#) - PostGIS Database (JNDI)
-  [Properties](#) - Allows access to Java Property files containing Feature information
-  [Shapefile](#) - ESRI(tm) Shapefiles (*.shp)
-  [Web Feature Server \(NG\)](#) - Provides access to the Features published a Web Feature Service, and the ability to perform transactions on the server (when supported / allowed).

Raster Data Sources

-  [ArcGrid](#) - ARC/INFO ASCII 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

Other Data Sources

-  [WMS](#) - Cascades a remote Web Map Service

Name

Namespace URI

The namespace uri associated with this workspace

Default Workspace

Properties

Allows access to Java Property files containing Feature information

Basic Store Info

Workspace *

Packt ▼

Data Source Name *

Places

Description

Location of famous places around the world

Enabled

Connection Parameters

directory *

C:\opt\Data

Namespace *

https://www.packtpub.com/

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

| Published | Layer name | Action |
|-----------|------------|---------|
| | places | Publish |

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

Coordinate Reference Systems

Native SRS

EPSG:4326 [EPSG:WGS 84...](#)

Declared SRS

EPSG:4326 [EPSG:WGS 84...](#)

SRS handling

Force declared

Bounding Boxes

Native Bounding Box

| Min X | Min Y | Max X | Max Y |
|----------|---------|---------|--------|
| -112,122 | -25,688 | 131,036 | 48,858 |

[Compute from data](#)

[Compute from SRS bounds](#)

Lat/Lon Bounding Box

| Min X | Min Y | Max X | Max Y |
|----------|---------|---------|--------|
| -112,122 | -25,688 | 131,036 | 48,858 |

[Compute from native bounds](#)

WMS Settings

Layer Settings




Queryable

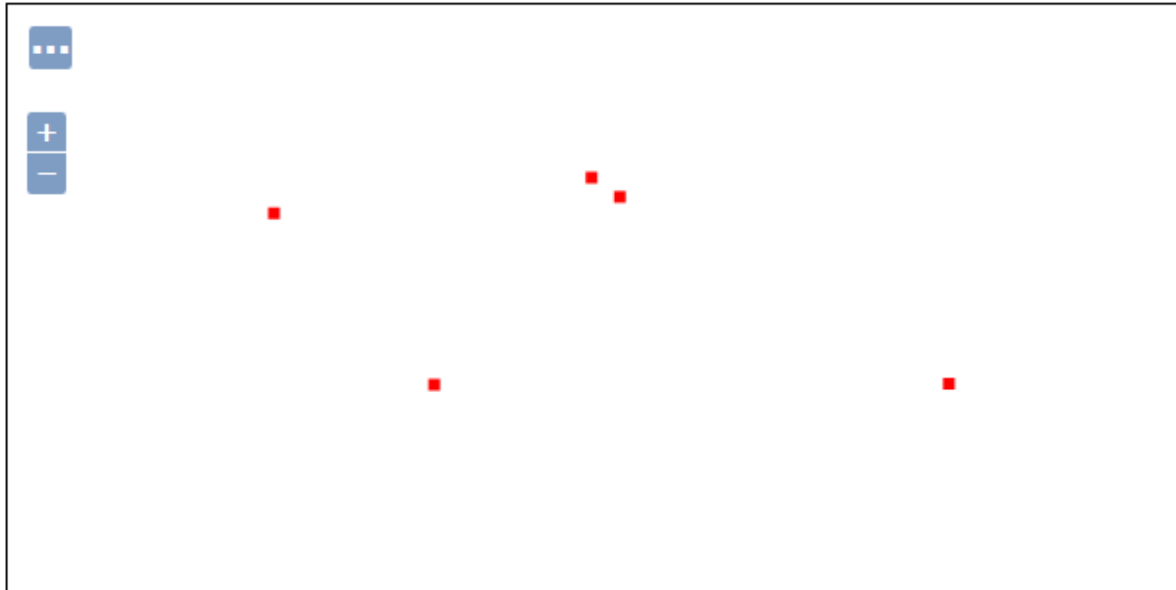
Opaque

Default Style

point



| | | | | |
|---|-----------------------|----------------------------|--|--|
|  | Tasmania water bodies | topp:tasmania_water_bodies | OpenLayers KML GML | <input type="button" value="Select one"/> <input type="button" value="v"/> |
|  | places | Packt:places | OpenLayers KML GML | <input type="button" value="Select one"/> <input type="button" value="v"/> |
|  | Spearfish | spearfish | OpenLayers KML | <input type="button" value="Select one"/> <input type="button" value="v"/> |



Scale = 1 : 279M

-74.53125, 104.76563

Click on the map to get feature info

Directory of spatial files (shapefiles)

Takes a directory of shapefiles and exposes it as a data store

Basic Store Info

Workspace *

Packt ▼

Data Source Name *

Natural Earth

Description

Shapefiles from Natural Earth

Enabled

Connection Parameters

Directory of shapefiles *

file://C:\opt\Data

[Browse...](#)

DBF files charset

ISO-8859-1 ▼

Create spatial index if missing/outdated

Use memory mapped buffers (Disable on Windows)

Cache and reuse memory maps (Requires 'Use Memory mapped buffers' to be enabled)

Save

Cancel

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

| Published | Layer name | Action |
|-----------|--------------------------|---------|
| | ne_50m_admin_0_countries | Publish |

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

Coordinate Reference Systems

Native SRS

[GCS_WGS_1984...](#)

Declared SRS

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

SRS handling

Bounding Boxes

Native Bounding Box

| Min X | Min Y | Max X | Max Y |
|-------|-----------------|-----------------|----------------|
| -180 | -89,99892578124 | 180,00000000000 | 83,59960937500 |

[Compute from data](#)

[Compute from SRS bounds](#)

Lat/Lon Bounding Box

| Min X | Min Y | Max X | Max Y |
|-------|-----------------|-----------------|----------------|
| -180 | -89,99892578124 | 180,00000000000 | 83,59960937500 |

[Compute from native bounds](#)







Scale = 1 : 140M

-104.06250, 36.91406

Click on the map to get feature info

OPTION B - POSTGRESQL

| <i>Component Version</i> | <i>Operating System</i> | <i>Type</i> | <i>How to Access</i> |
|--------------------------|--|-----------------------|--------------------------|
| v9.6 |  Linux x86-64 | Interactive Installer | Download |
| v9.6 |  Linux x86-32 | Interactive Installer | Download |
| v9.6 |  Windows-64 | Interactive Installer | Download |
| v9.6 |  Windows-32 | Interactive Installer | Download |



PostgreSQL



Completing the PostgreSQL Setup Wizard

Setup has finished installing PostgreSQL on your computer.

Launch Stack Builder at exit?

- Stack Builder may be used to download and install additional tools, drivers and applications to complement your PostgreSQL installation.

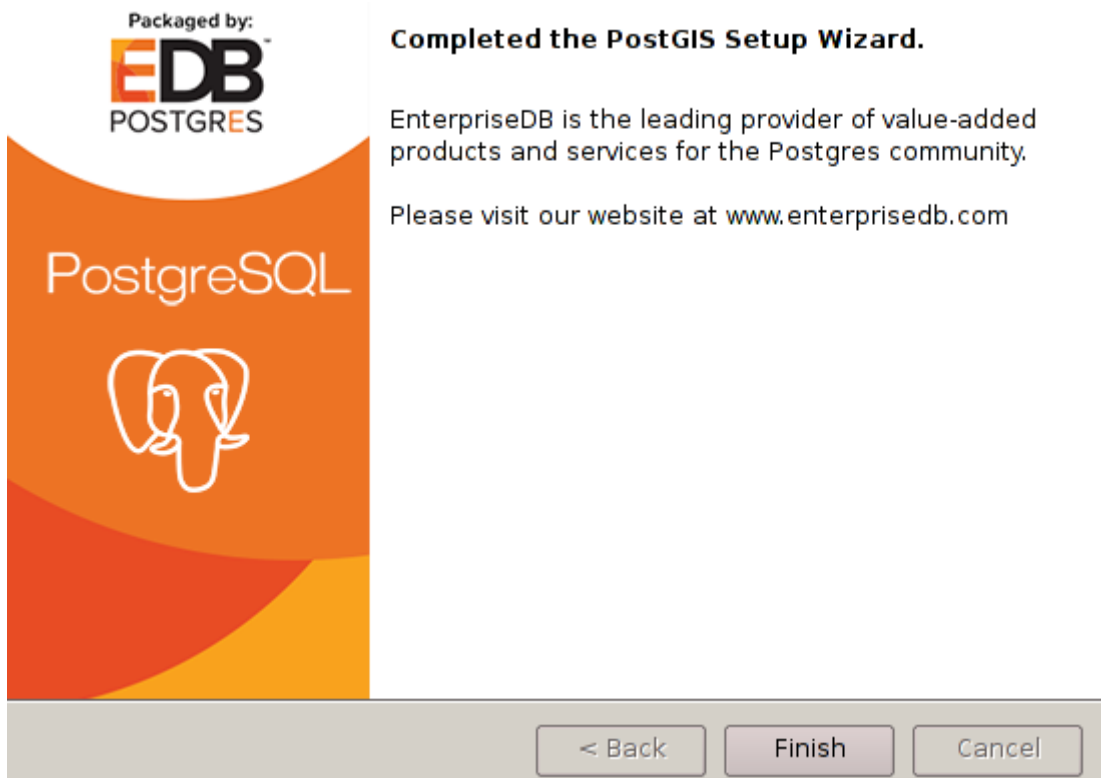
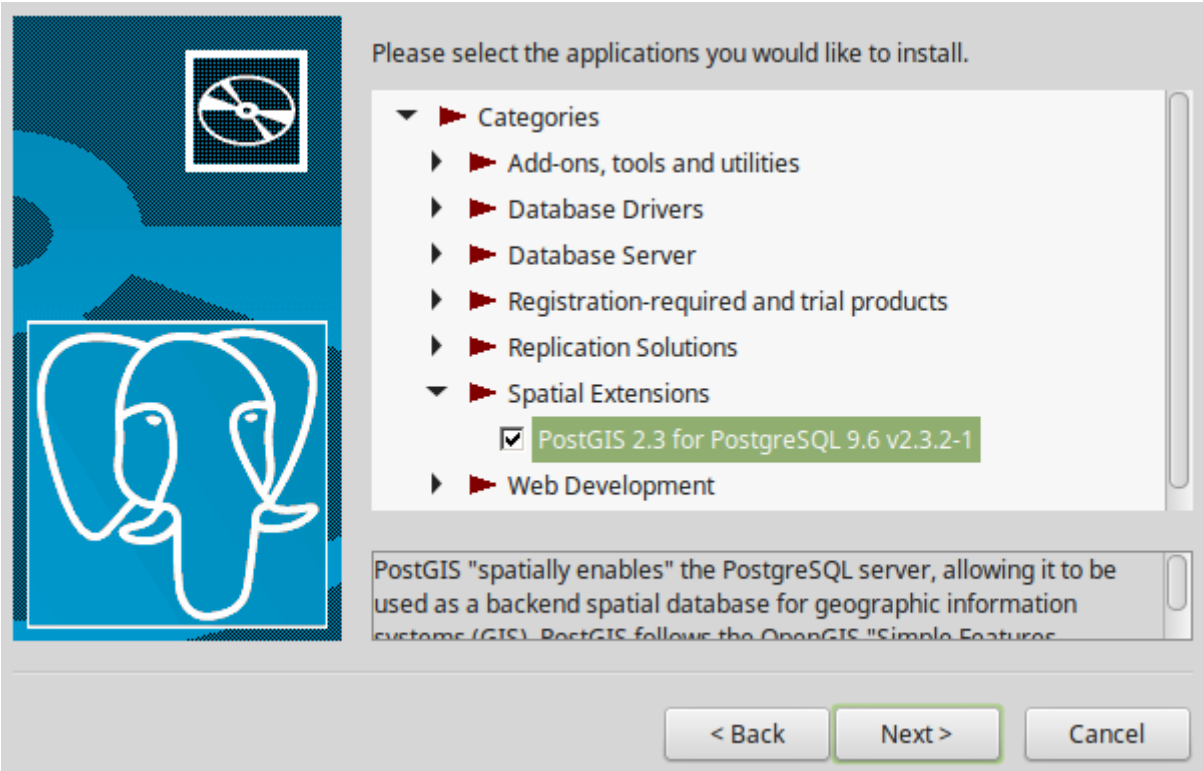


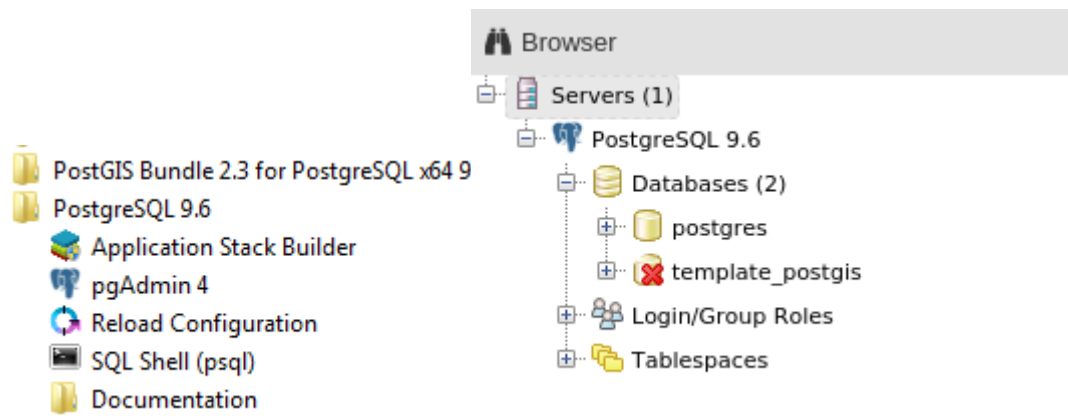
Welcome to Stack Builder!

This wizard will help you install additional software to complement your PostgreSQL or EnterpriseDB Postgres Plus installation.

To begin, please select the installation you are installing software for from the list below. Your computer must be connected to the Internet before proceeding.

PostgreSQL 9.6 on port 543





Create - Database

General | Definition | Security | Parameters | SQL

Database

Owner

Comment

Save **Cancel** **Reset**

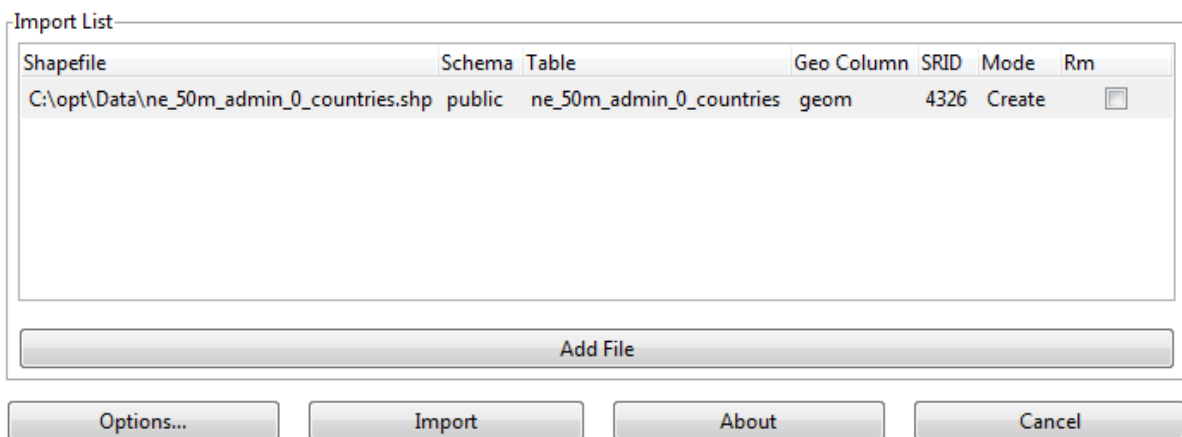
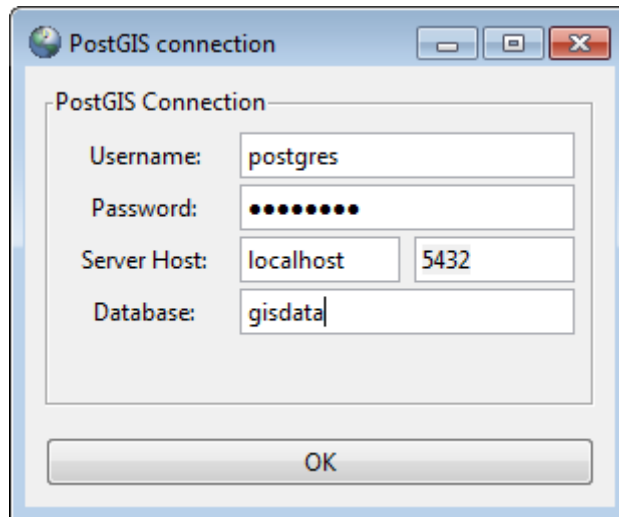
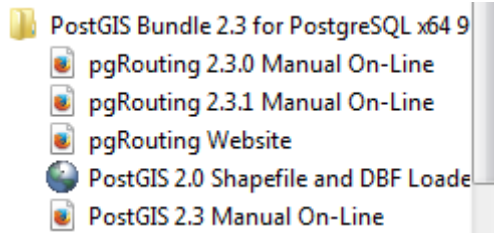
Create - Extension

General | Definition | SQL

Name

Comment

Save **Cancel** **Reset**



=====
 Importing with configuration: ne_50m_admin_0_countries, public, geom, C:\opt\Data\ne_50m_admin_0_countries.shp,
 mode=c, dump=1, simple=0, geography=0, index=1, shape=1, srid=4326
 Shapefile type: Polygon
 PostGIS type: MULTIPOLYGON[2]
 Shapefile import completed.

Basic Store Info

Workspace *

Packt

Data Source Name *

gisdata

Description

gisdata

Enabled

Connection Parameters

dbtype *

postgis

host *

localhost

port *

5432

database

gisdata

schema

public

user *

postgres

passwd

●●●●●●●●

<< < 1 > >> Results 0 to 0 (out of 0 items)

| Published | Layer name | Action |
|-----------|--------------------------|---------|
| | ne_50m_admin_0_countries | Publish |

<< < 1 > >> Results 0 to 0 (out of 0 items)

Edit Layer

Basic Resource Info

Name

NaturalEarthCountries

Enabled

Advertised

Title

NaturalEarthCountries



Scale = 1 : 140M

-58.00781, 21.09375

[Click on the map to get feature info](#)

Cross Blended Hypso with Relief, Water, Drains, and Ocean Bottom



Shaded Relief, Water, Drainages, and Ocean Bottom
Land coloring based on elevation.

[Download large size](#) (385.56 MB) version 3.2.0

[Download medium size](#) (228.81 MB) version 3.2.0

[About](#) | [Issues](#) | [Version History](#) »






Stores

Manage the stores providing data to GeoServer

[+ Add new Store](#)

[- Remove selected Stores](#)

Raster Data Sources

-  [ArcGrid](#) - ARC/INFO ASCII 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

Add Raster Data Source

Description

GeoTIFF
Tagged Image File Format with Geographic information

Basic Store Info

Workspace *

Packt 

Data Source Name *

EarthRaster

Description

Enabled

Connection Parameters

URL *

file://C:\opt\Data\HYP_LR_SR_OB_DR\HYP_LR_SR_OB [Browse...](#)

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

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

| Published | Layer name | Action |
|-----------|-----------------|-------------------------|
| | HYP_LR_SR_OB_DR | Publish |

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

Coordinate Reference Systems

Native SRS

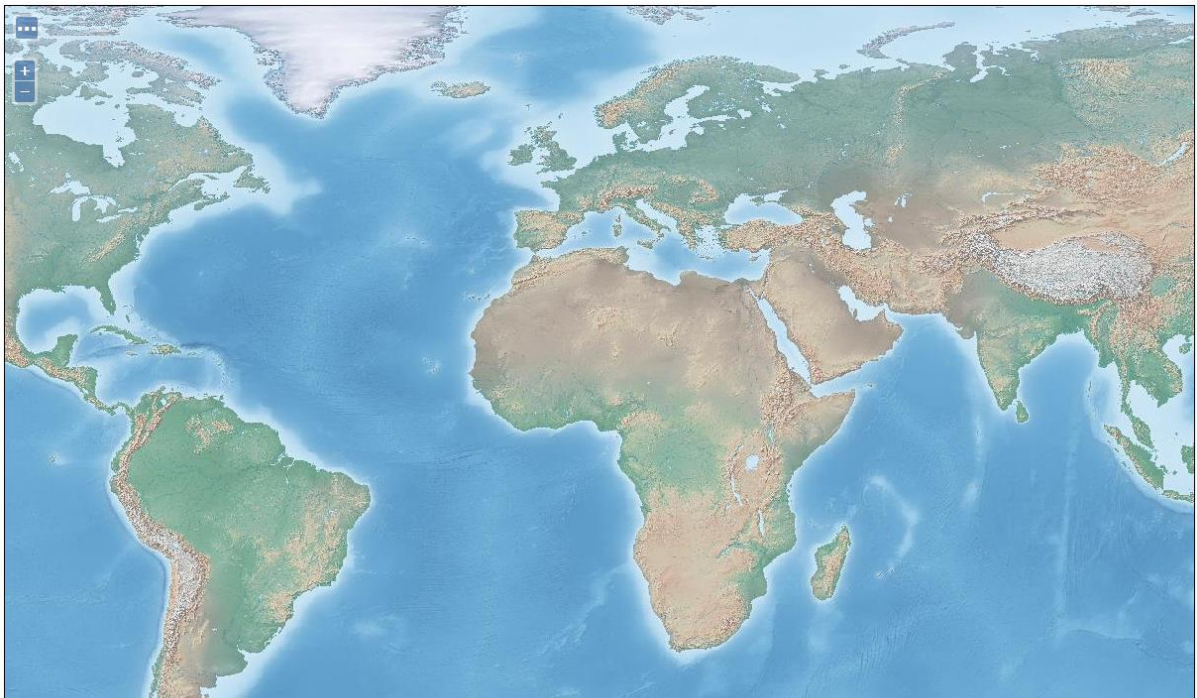
UNKNOWN [GCS_WGS_1984...](#)

Declared SRS

EPSG:4326 [Find...](#) [EPSG:WGS 84...](#)

SRS handling

Force declared ▼








Scale = 1 : 70M
Click on the map to get feature info

-37.96875, 60.99609

Vector Formats

- [App Schema](#)
- [ArcSDE](#)
- [DB2](#)
- [H2](#)
- [MySQL](#)
- [Oracle](#)
- [Pregeneralized Features](#)
- [SQL Server](#)
- [Teradata](#)

Vector Data Sources

-  [Directory of spatial files \(shapefiles\)](#) - Takes a directory of shapefiles and exposes it as a data store
-  [Oracle NG - Oracle Database](#)
-  [Oracle NG \(JNDI\) - Oracle Database \(JNDI\)](#)
-  [Oracle NG \(OCI\) - Oracle Database \(OCI\)](#)
-  [PostGIS - PostGIS Database](#)

Basic Store Info

Workspace *

Packt

Data Source Name *

Oracle11G

Description

Oracle Spatial

Enabled

Connection Parameters

dbtype *

oracle

host

vmOra11Gsrv

port

1521

database *

GISDATA

schema

GISUSER

user *

gisuser

passwd

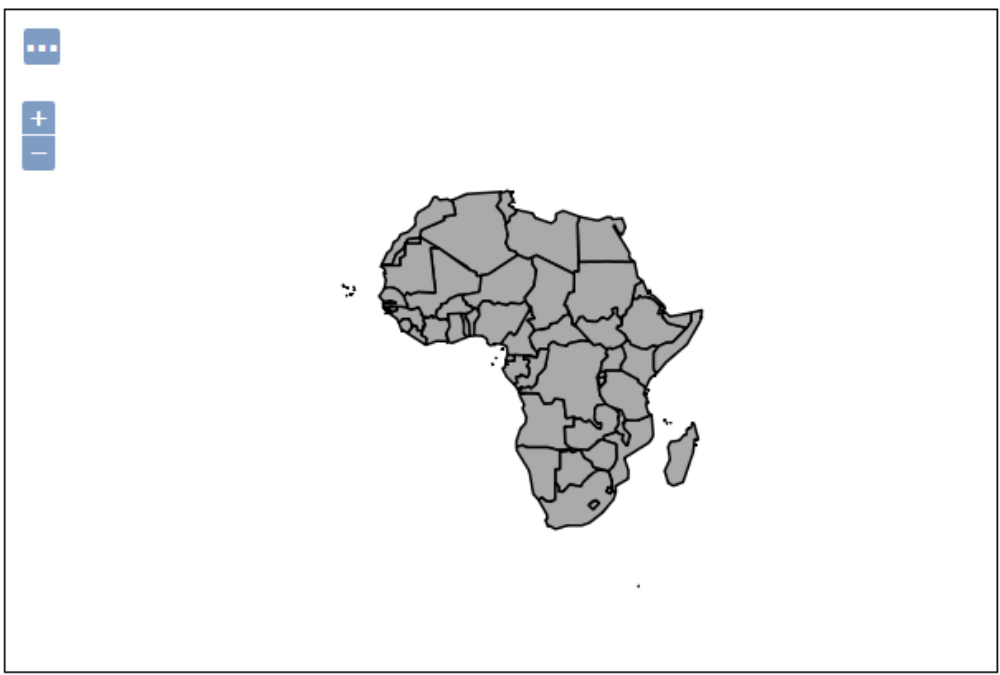
●●●●●●●●

Chapter 5: Accessing Layers

| | | | | |
|--|-------------------------------|--------------------------------|--------------------|----------------|
| | NaturalEarthCountries | Packt:NaturalEarthCountries | OpenLayers KML GML | Select one |
| | ne_50m_admin_0_countries | Packt:ne_50m_admin_0_countries | OpenLayers KML GML | Select one |
| | places | Packt:places | OpenLayers KML GML | WMS |
| | rivers | Packt:rivers | OpenLayers KML GML | AtomPub |
| | Spearfish archeological sites | sf:archsites | OpenLayers KML GML | GIF |
| | Spearfish bug locations | sf:bugsites | OpenLayers KML GML | GeoRSS |
| | Spearfish restricted areas | sf:restricted | OpenLayers KML GML | GeoTiff |
| | Spearfish roads | sf:roads | OpenLayers KML GML | GeoTiff 8-bits |
| | Spearfish streams | sf:streams | OpenLayers KML GML | JPEG |

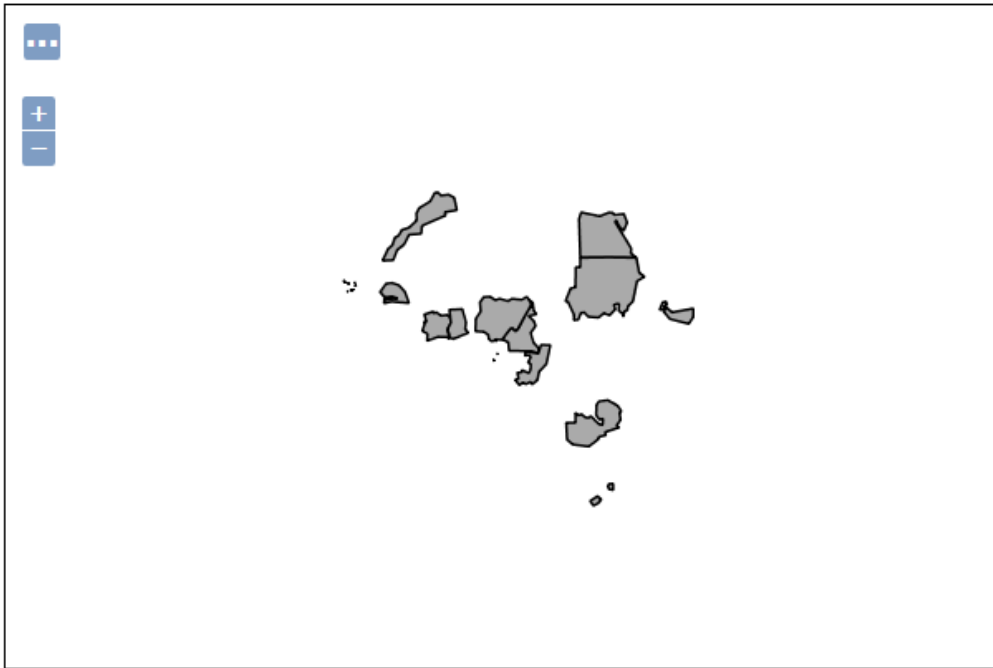
WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: Default Width/Height: 600 400
Filter: CQL

Filter: CQL



Scale = 1 : 140M

Filter: CQL



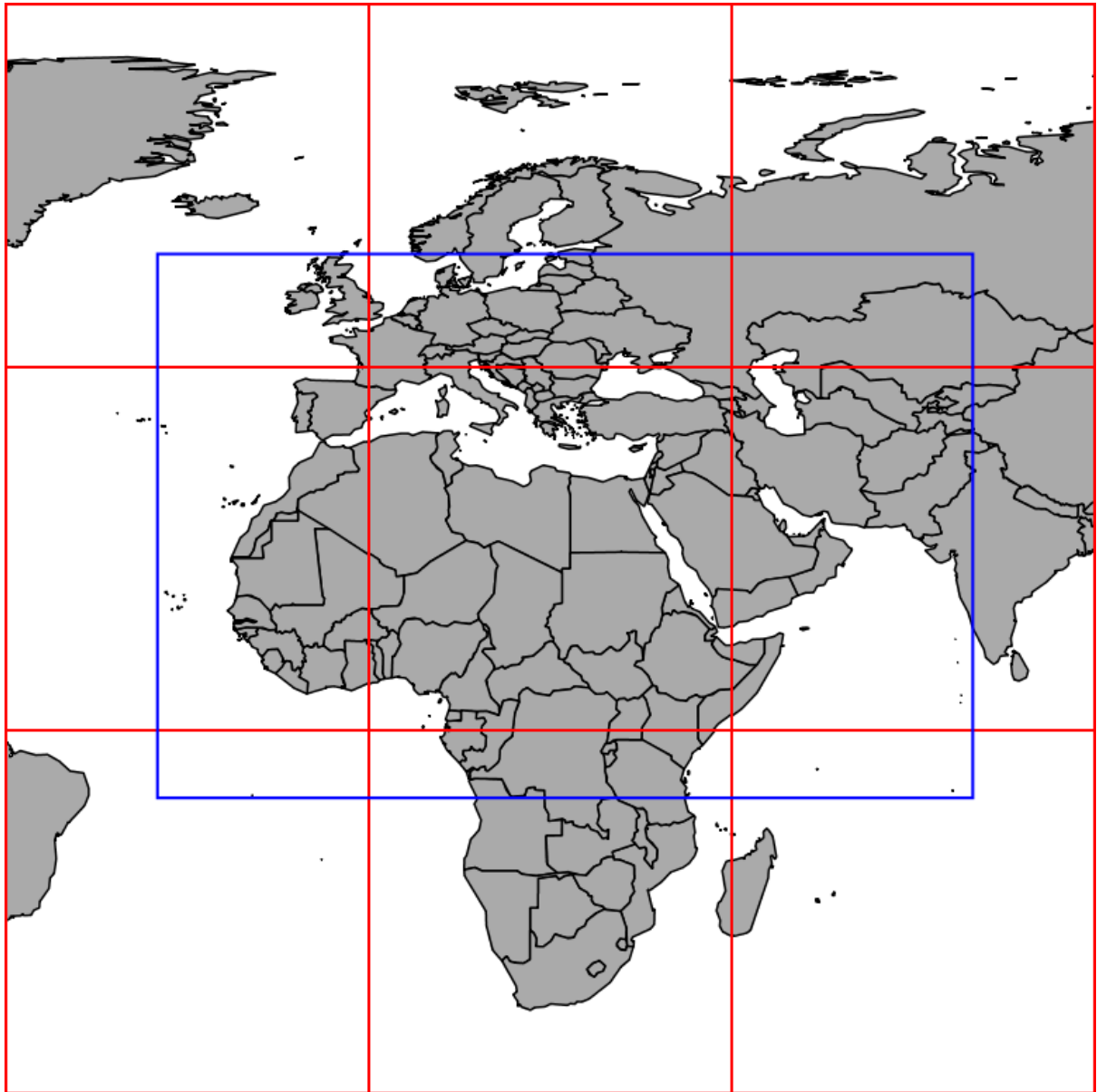
Scale = 1 : 140M

Filter: CQL



Scale = 1 : 70M

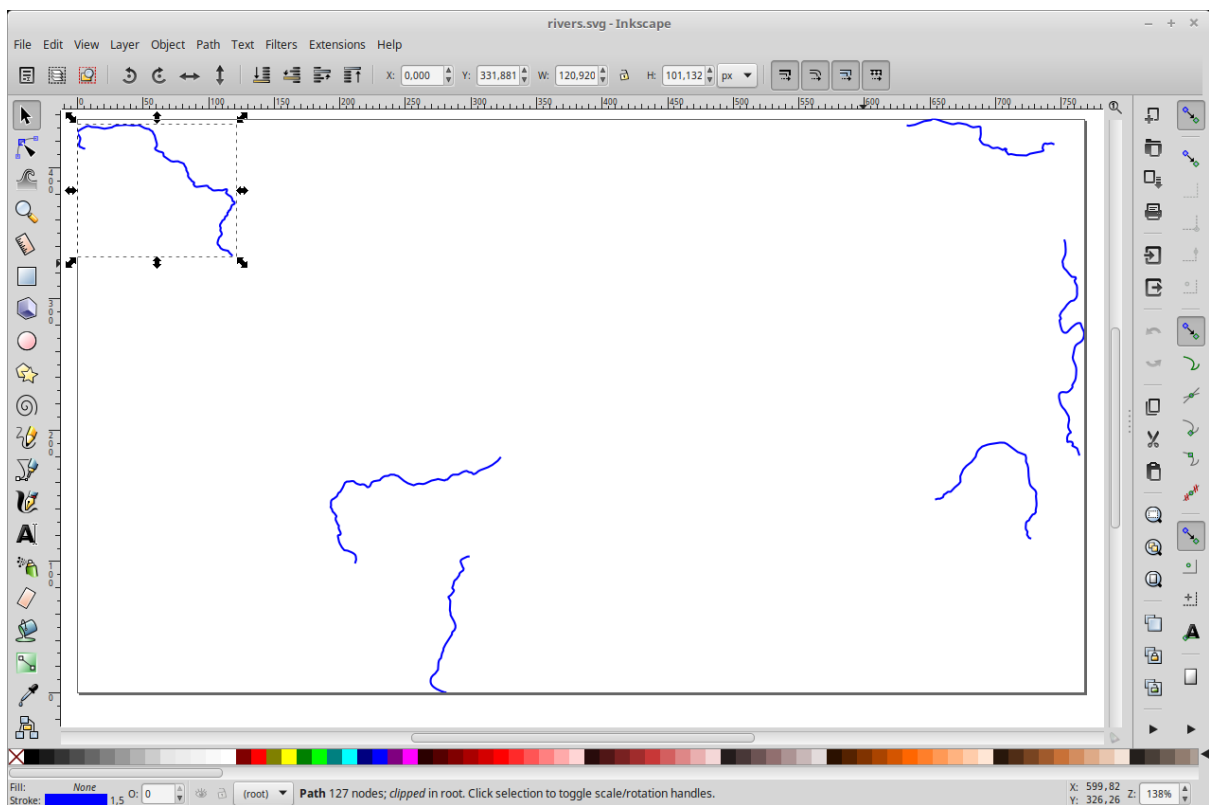
| | | | | | |
|---|-----|----------------|----------|------------|-------|
| GET wms?SERVICE=WMS&VI | 200 | localhost:8080 | 51,9 KB | [::1]:8080 | 123ms |
| GET wms?SERVICE=WMS&VI | 200 | localhost:8080 | 14,0 KB | [::1]:8080 | 150ms |
| http://localhost:8080/geoserver/Pack1/wms?SERVICE=WMS&VERSION=1.1.1&REQUEST=GetMap&FORMAT=image%2Fpng&TRANSPARENT=true&tiled=true&STYLES&LAYERS=Pack1%3ANatura... | | | | | |
| GET wms?SERVICE=WMS& | | localhost:8080 | 18,8 KB | [::1]:8080 | 109ms |
| GET wms?SERVICE=WMS& | | localhost:8080 | 11,0 KB | [::1]:8080 | 116ms |
| 5 richieste | | | 104,8 KB | | 273ms |



```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE svg PUBLIC "-//W3C//DTD SVG 1.0//EN"
3   'http://www.w3.org/TR/2001/REC-SVG-20010904/DTD/svg1.0.dtd'>
4 <svg color-interpolation="auto" color-rendering="auto" fill="black" fill-opacity="1" font-family="&apos;Dis
5 ><!--Generated by the Batik Graphics2D SVG Generator--><defs id="genericDefs"
6   /><g
7   ><defs id="defs1"
8     ><clipPath clipPathUnits="userSpaceOnUse" id="clipPath1"
9       ><path d="M0 0 L768 0 L768 437 L0 437 L0 0 Z"
10      /></clipPath
11     /></defs
12     ><g fill="blue" stroke="blue" stroke-linecap="butt" stroke-miterlimit="1" stroke-width="1.5" text-rende
13     ><path clip-path="url(#clipPath1)" d="M632.6951 5.1621 L634.4517 5.5094 L638.9845 4.6802 L645.8612 1.95
14     /><path clip-path="url(#clipPath1)" d="M299.3682 333.4405 L297.4872 333.6404 L293.8634 335.3867 L292.
15     /><path clip-path="url(#clipPath1)" d="M727.6427 319.8786 L726.0049 319.408 L724.4319 316.946 L724.80
16     /><path clip-path="url(#clipPath1)" d="M764.2831 256.6906 L764.1797 255.8133 L762.6307 251.1641 L761.
17     /><path clip-path="url(#clipPath1)" d="M211.9831 338.7936 L212.8656 335.9299 L212.5687 333.2694 L212.
18     /><path clip-path="url(#clipPath1)" d="M6.2051 22.6381 L5.2271 22.8897 L4.3304 22.4813 L3.227 21.8921
19     /></g
20   ></g
21 ></svg
22 >
23

```



| | | | |
|------------|------------------|----------|--------|
| states.cst | 07/07/2017 15:34 | File CST | 1 KB |
| states.dbf | 07/07/2017 15:34 | File DBF | 19 KB |
| states.prj | 07/07/2017 15:34 | File PRJ | 1 KB |
| states.shp | 07/07/2017 15:34 | File SHP | 183 KB |
| states.shx | 07/07/2017 15:34 | File SHX | 1 KB |

Output Formats

- DXF
- Excel
- Image Map
- JPEG Turbo
- NetCDF
- OGR (WFS, WPS)
- XSLT

states

| fid | STATE_NAME | STATE_FIPS | SUB_REGION | STATE_ABBR | LAND_KM | WATER_KM | PERSONS | FAMILIES | HOUSHOL |
|-----------|------------|------------|------------|------------|------------|----------|-----------|-----------|-----------|
| states.17 | Alabama | 01 | E S Cen | AL | 131443.119 | 4332.268 | 4040587.0 | 1103835.0 | 1506790.0 |

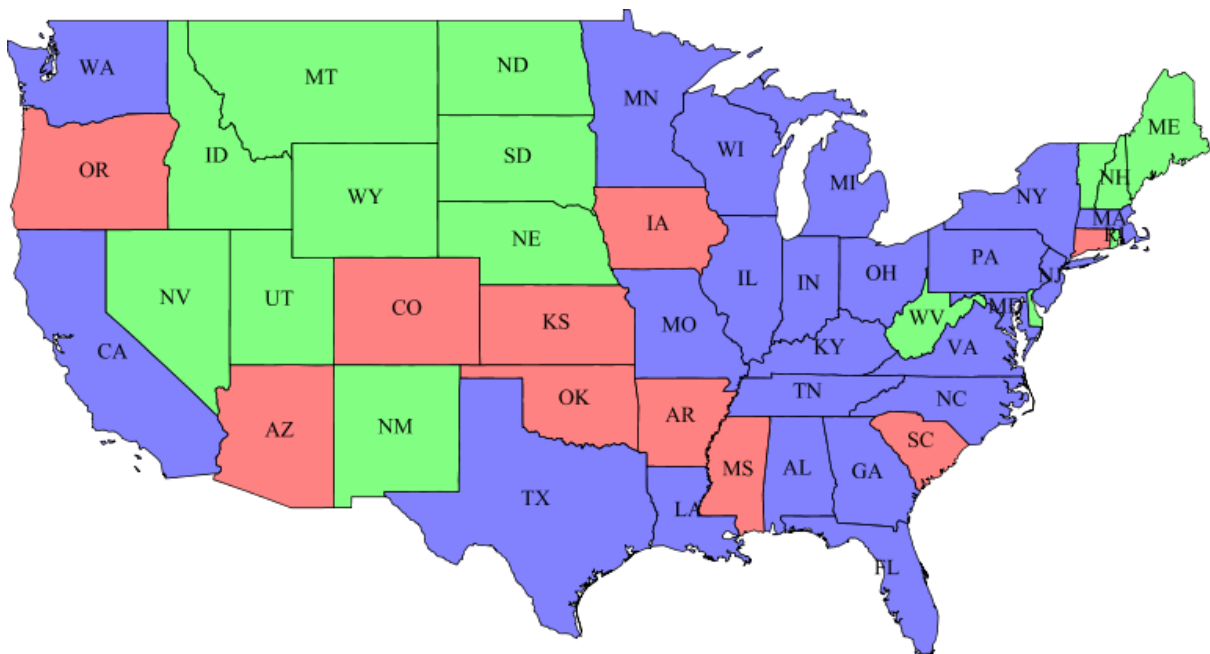
Update Sequence 261

Resource Cache

Clear

Configuration and catalog

Reload



Chapter 6: Styling Your Layers

Miscellaneous





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

Styles

Manage the Styles published by GeoServer

 [Add a new style](#)

 [Removed selected style\(s\)](#)

  **1**   Results 1 to 21 (out of 21 items)

| <input type="checkbox"/> Style Name | Workspace |
|--|------------------|
| <input type="checkbox"/> burg | |
| <input type="checkbox"/> capitals | |
| <input type="checkbox"/> cite_lakes | |
| <input type="checkbox"/> dem | |
| <input type="checkbox"/> generic | |

Style Editor

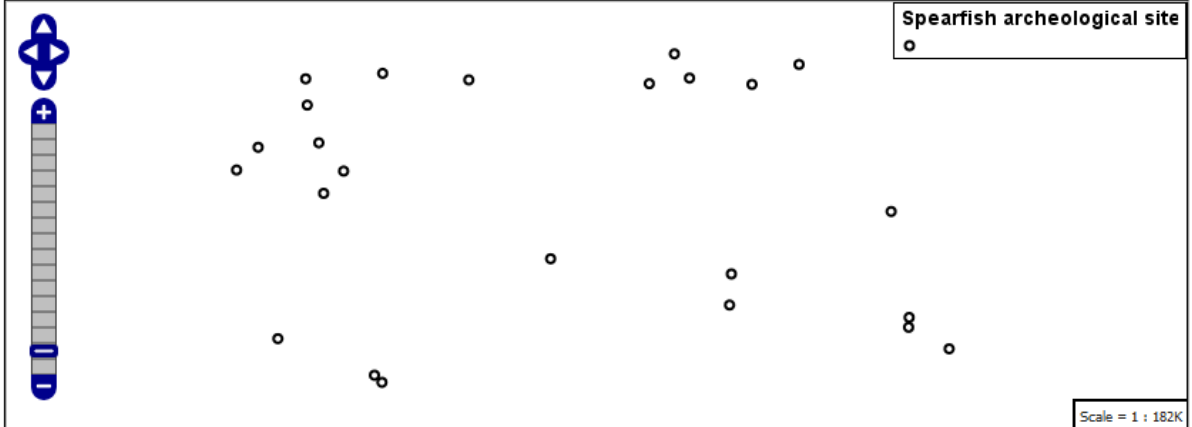
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <StyledLayerDescriptor version="1.0.0"
3   xsi:schemaLocation="http://www.opengis.net/sld http://schemas.opengis.net/sld/1.0.0
4   /StyledLayerDescriptor.xsd" xmlns="http://www.opengis.net/sld"
5   xmlns:ogc="http://www.opengis.net/ogc" xmlns:xlink="http://www.w3.org/1999/xlink"
6   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
7   <NamedLayer>
8     <Name>capitals</Name>
9     <UserStyle>
10      <Name>capitals</Name>
11      <Title>Capital cities</Title>
12      <FeatureTypeStyle>
13        <Rule>
14          <Title>Capitals</Title>
15          <PointSymbolizer>
16            <Graphic>
17              <Mark>
18                <WellKnownName>circle</WellKnownName>
19                <Fill>
20                  <CssParameter name="fill">
21                    <ogc:Literal>#FFFFFF</ogc:Literal>
22                  </CssParameter>
23                </Fill>
24                <Stroke>
25                  <CssParameter name="stroke">

```

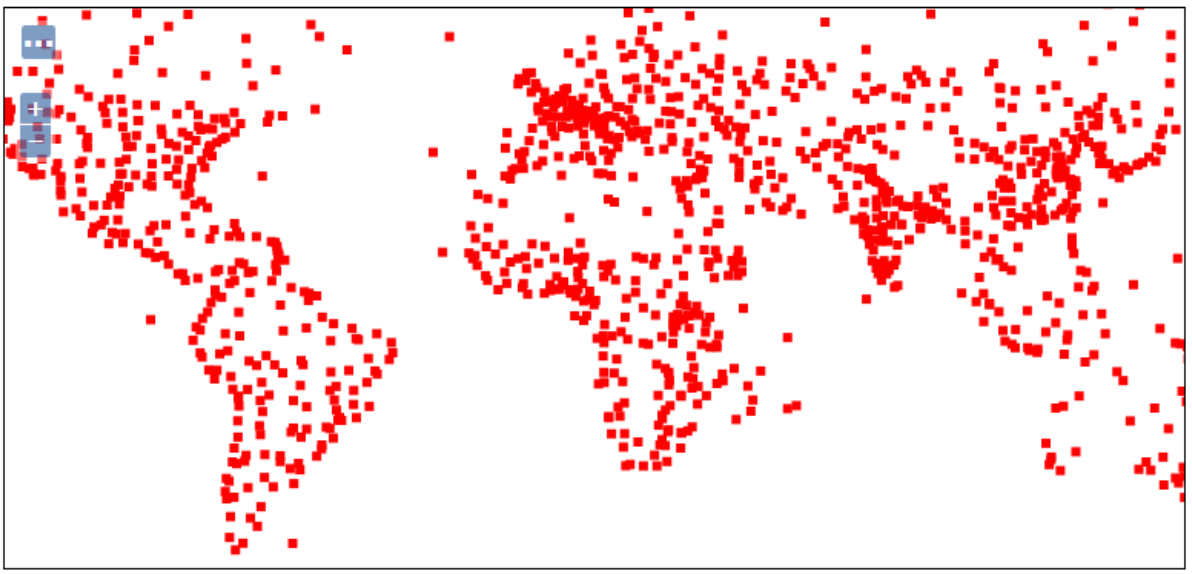
| Workspace | Layer | Default | Associated |
|-----------|--------------------------|-------------------------------------|-------------------------------------|
| nurc | Arc_Sample | <input type="checkbox"/> | <input type="checkbox"/> |
| nurc | Pk50095 | <input type="checkbox"/> | <input type="checkbox"/> |
| nurc | mosaic | <input type="checkbox"/> | <input type="checkbox"/> |
| nurc | Img_Sample | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | NaturalEarthCountries | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | ne_50m_admin_0_countries | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | places | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | rivers | <input type="checkbox"/> | <input type="checkbox"/> |
| sf | archsites | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| sf | bugsites | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Previewing on layer: [sf:archsites](#)



Previewing on layer: sf:archsites
For reference, here is a listing of the attributes in this data set.

| name | type | sample | min | max | computeStats |
|----------|--------|------------------------|------------|-----------------|-------------------------|
| the_geom | Point | POINT (593493 4914730) | | | Compute |
| cat | Long | 1 | 1 | 25 | Compute |
| str1 | String | Signature Rock | Bob Miller | Whitewood Flats | Compute |



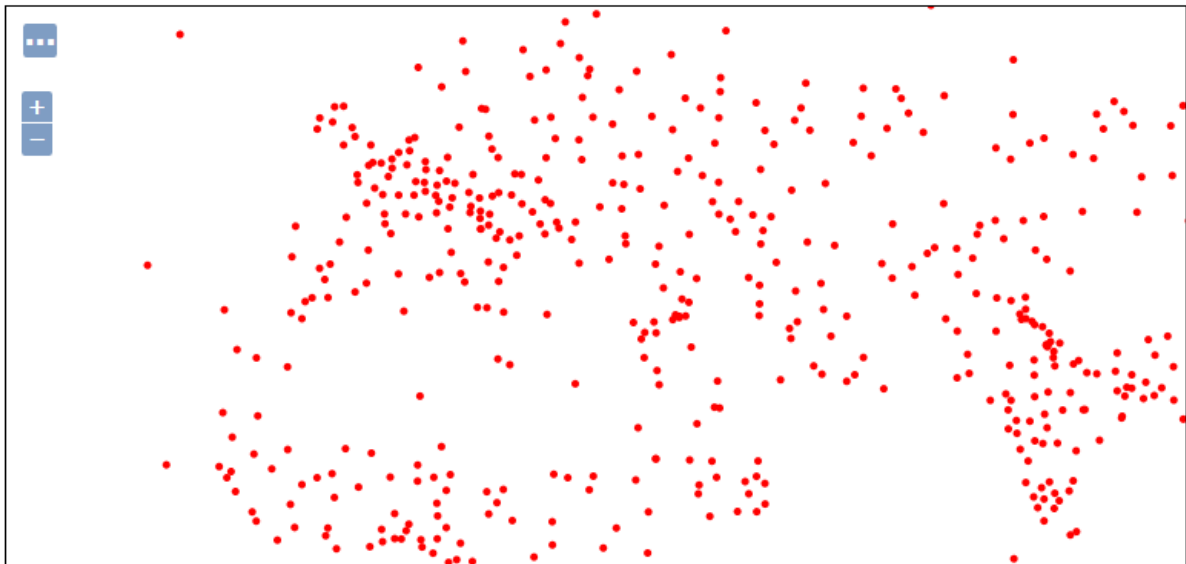
Scale = 1 : 140M -66.09375, 42.89063
Click on the map to get feature info

Styles

Manage the Styles published by GeoServer

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

| | | | |
|-------|--------------------------|-------------------------------------|--------------------------|
| Packt | ne_50m_admin_0_countries | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | ne_50m_populated_places | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Packt | places | <input type="checkbox"/> | <input type="checkbox"/> |



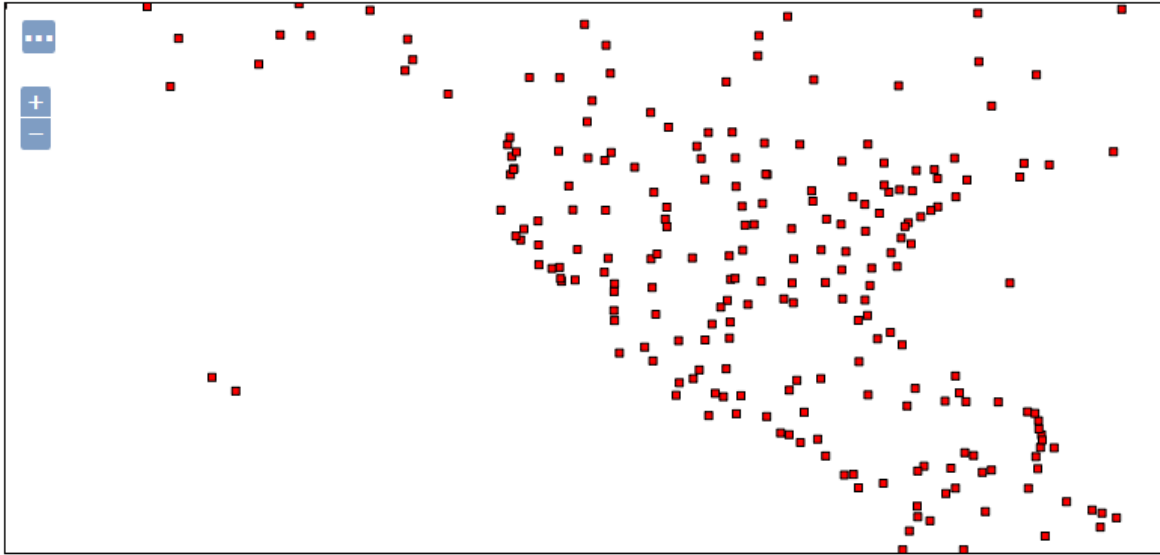
Scale = 1 : 70M

-31.28906, 67.32422

Click on the map to get feature info

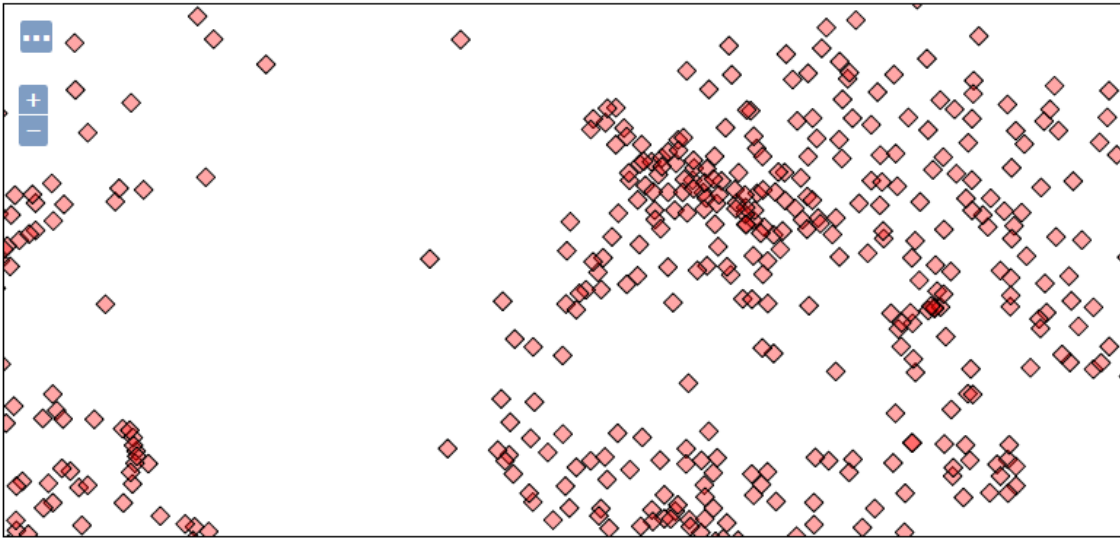
| Workspace | Layer | Default | Associated |
|-----------|--------------------------|--------------------------|-------------------------------------|
| nurc | Arc_Sample | <input type="checkbox"/> | <input type="checkbox"/> |
| nurc | Pk50095 | <input type="checkbox"/> | <input type="checkbox"/> |
| nurc | mosaic | <input type="checkbox"/> | <input type="checkbox"/> |
| nurc | Img_Sample | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | NaturalEarthCountries | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | ne_50m_admin_0_countries | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | ne_50m_populated_places | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: PopulatedPlacesStroke Filter: CQL



Scale = 1 : 70M
Click on the map to get feature info

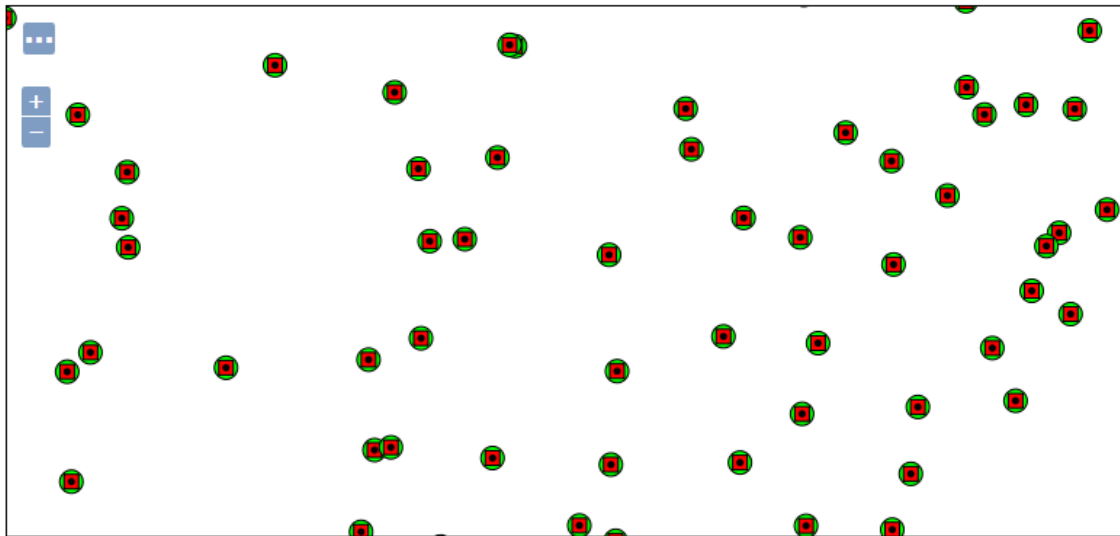
WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: PopulatedRotateTransparent Filter: CQL



Scale = 1 : 70M
Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: PopulatedPlacesComplex

Filter: CQL

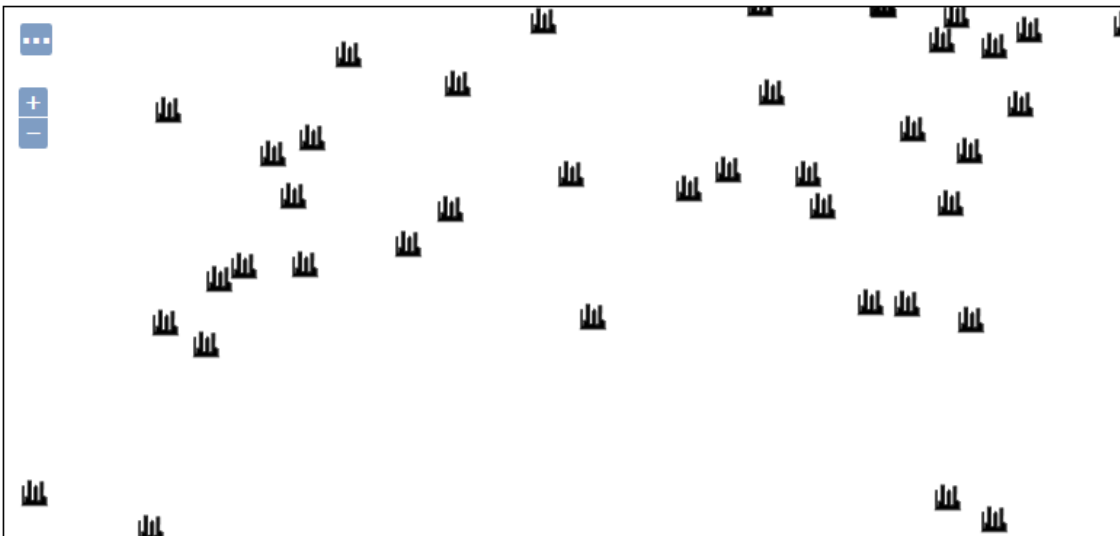


Scale = 1 : 17M

Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: PopulatedPlacesGraphics

Filter: CQL



Scale = 1 : 17M

Click on the map to get feature info

| | | | |
|-------|--------------------------------|-------------------------------------|--------------------------|
| topp | tasmania_state_boundaries | <input type="checkbox"/> | <input type="checkbox"/> |
| topp | tasmania_water_bodies | <input type="checkbox"/> | <input type="checkbox"/> |
| Packt | ne_50m_rivers_lake_centerlines | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

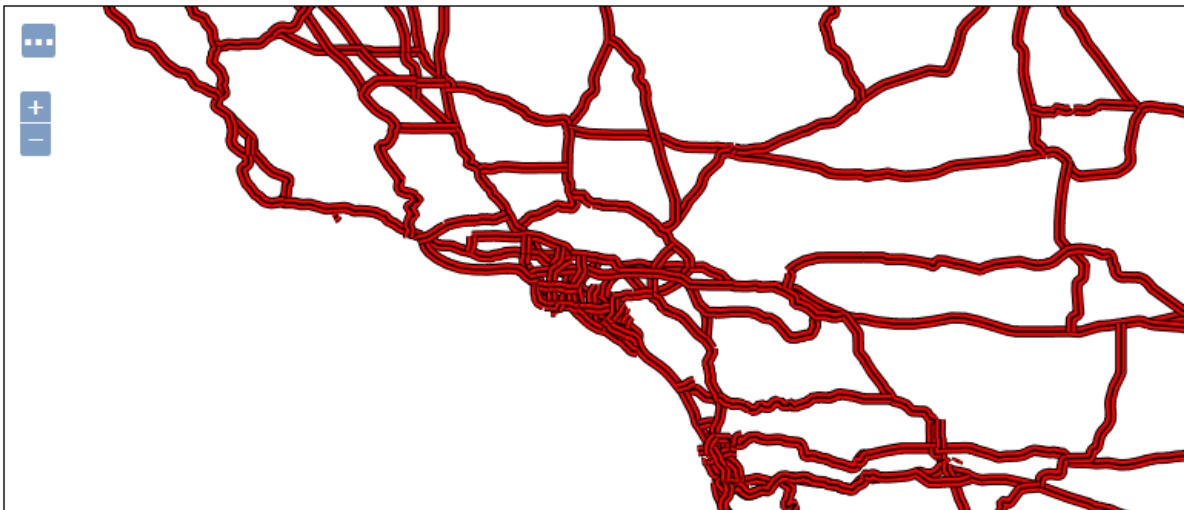
<< < 1 > >> Results 1 to 25 (out of 25 items)



Scale = 1 : 70M

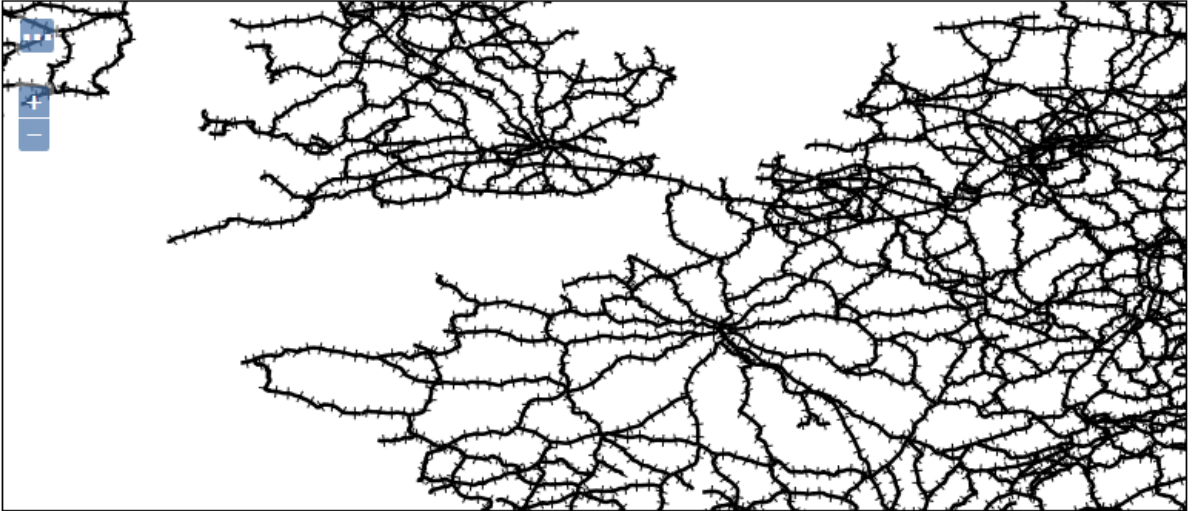
-139.21875, 47.46094

Click on the map to get feature info



Scale = 1 : 4M

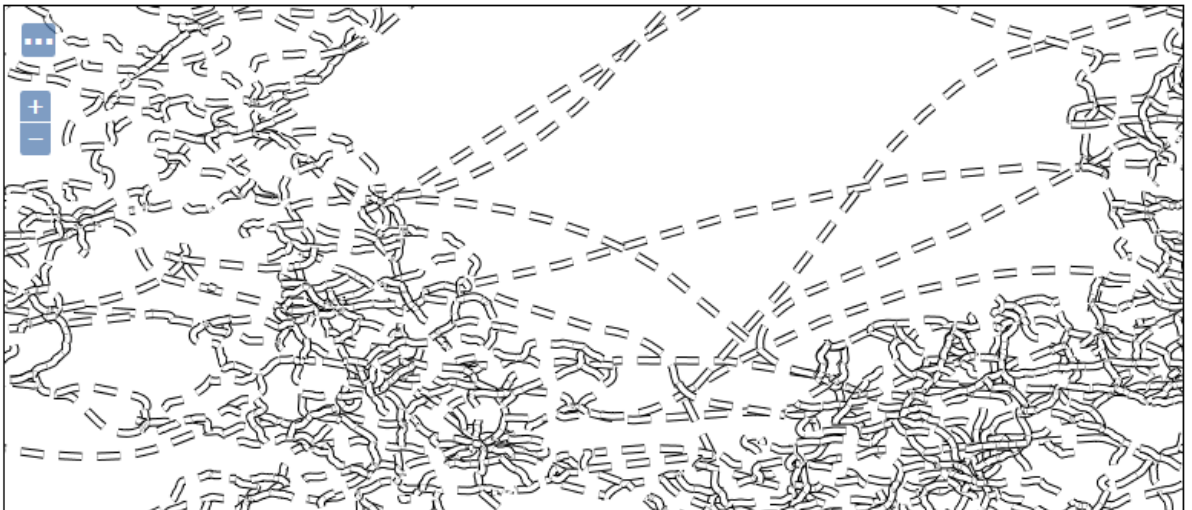
Click on the map to get feature info



Scale = 1 : 9M

Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: DashedRoads Width:
Filter: CQL

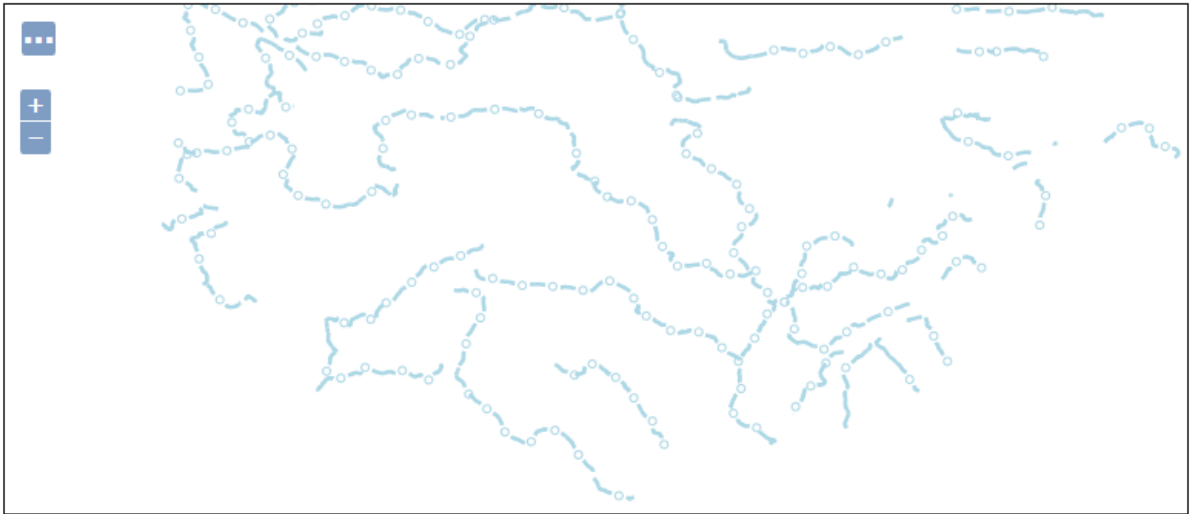


Scale = 1 : 9M

Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: DashingAndMarkers

Filter: CQL



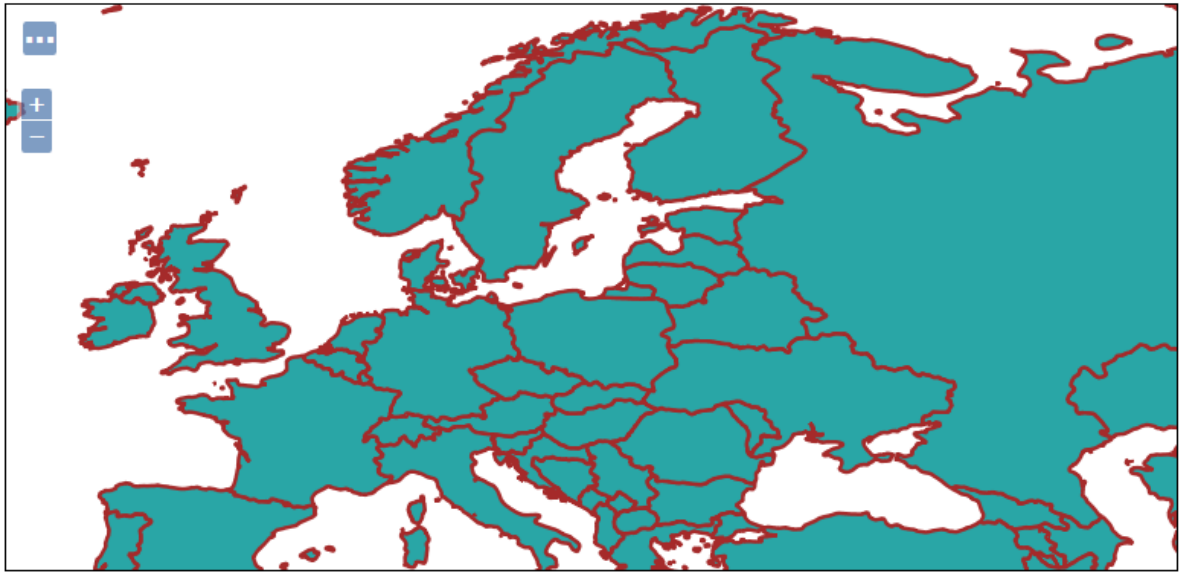
Scale = 1 : 35M

-88.94531, 50.44922

Click on the map to get feature info

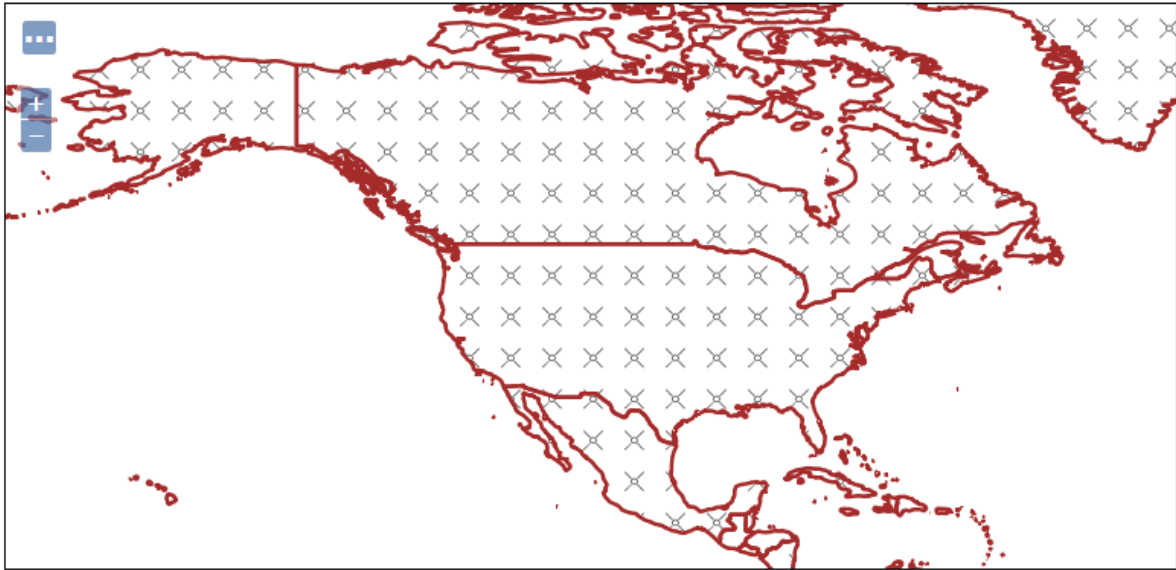
WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: Countries Width/Height

Filter: CQL



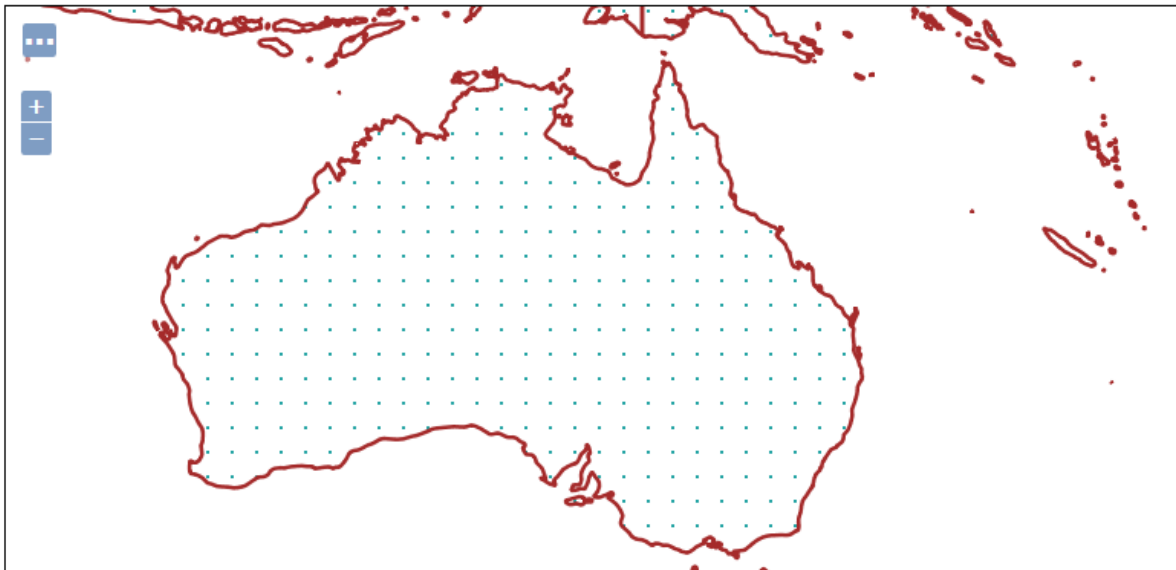
Scale = 1 : 35M

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: CountriesGraphics W
Filter: CQL Apply Reset



Scale = 1 : 70M
Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: CountriesHatching W
Filter: CQL Apply Reset



Scale = 1 : 35M
Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: PopulatedPlacesLabeled

Filter: CQL

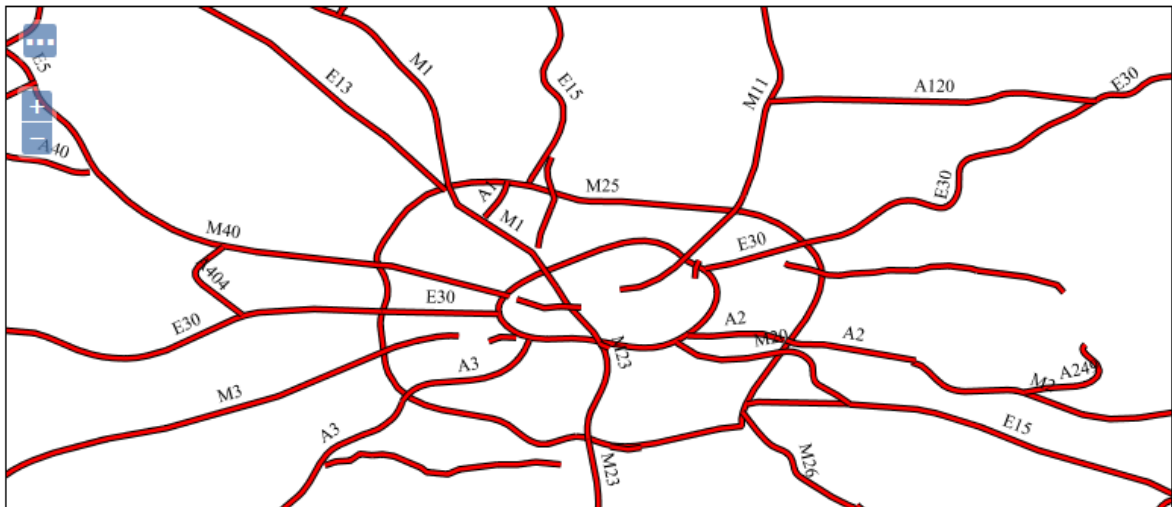


Scale = 1 : 9M

Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: RoadsLabeled Width/

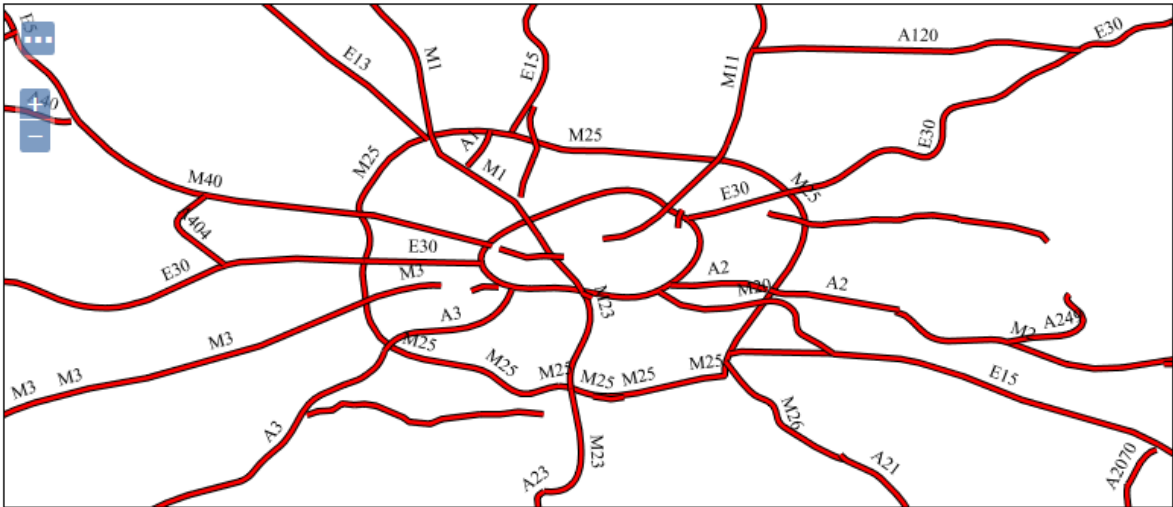
Filter: CQL



Scale = 1 : 1M

Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: RoadsLabeled Width/
Filter: CQL



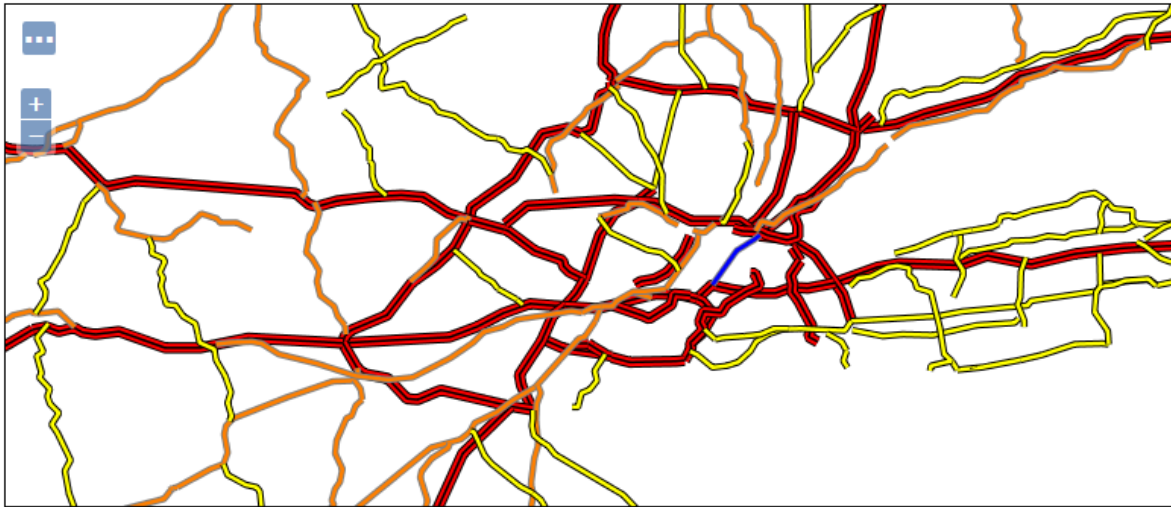
Scale = 1 : 1M
Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: CountriesLabeled Width/
Filter: CQL



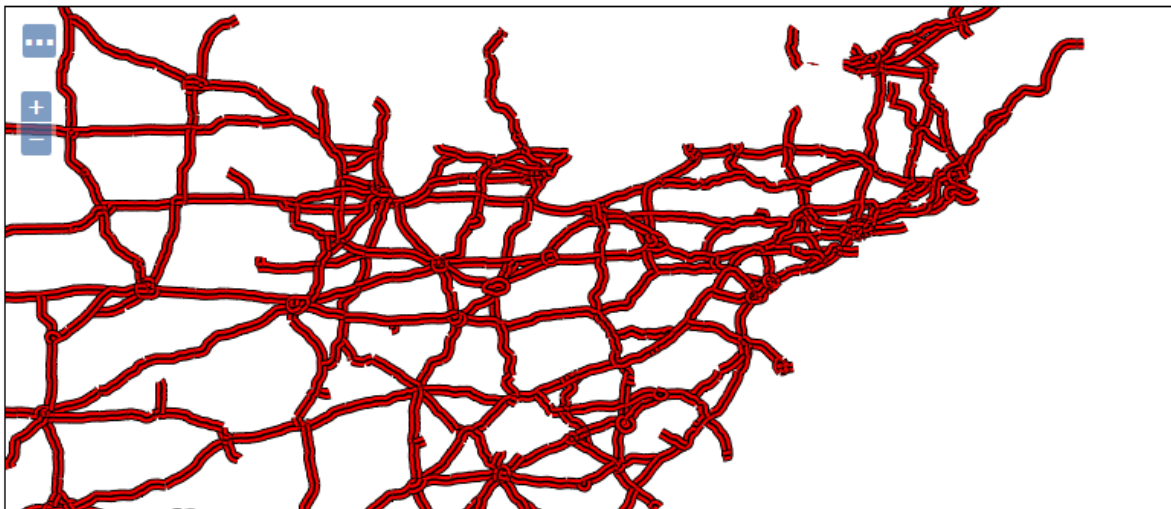
Scale = 1 : 17M
Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: RoadsThematic Width: 1024px Height: 1024px
Filter: CQL



Scale = 1 : 1M

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: RoadsThematicScale Width: 1024px Height: 1024px
Filter: CQL



Scale = 1 : 17M

Click on the map to get feature info

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: RoadsThematicScale
 Filter: CQL



Scale = 1 : 273K

Click on the map to get feature info

Layer Groups

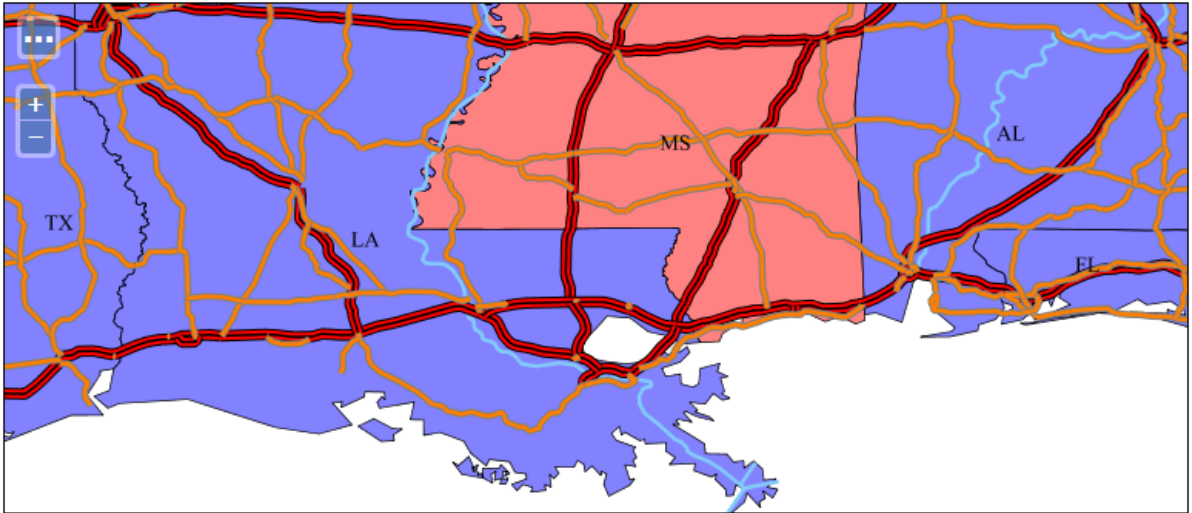
Define and manage layer groupings

- + Add new layer group
- Remove selected layer group(s)

| | | |
|-----------------|------------------|-------|
| poly_landmarks | nyc | tiger |
| tiger_roads | nyc | tiger |
| states | states_shapefile | topp |
| tasmania_cities | taz_shapes | topp |
| tasmania_roads | taz_shapes | topp |

<< < 1 2 > >> Results 1 to 25 (out of 27 items)

| | | | | |
|--|-----------------------|----------------------------|--------------------|------------|
| | Tasmania water bodies | topp:tasmania_water_bodies | OpenLayers KML GML | Select one |
| | Spearfish | spearfish | OpenLayers KML | Select one |
| | Tasmania | tasmania | OpenLayers KML | Select one |
| | TIGER New York | tiger-ny | OpenLayers KML | Select one |
| | myLayerGroup | myLayerGroup | OpenLayers KML | Select one |



Scale = 1 : 4M

-93.83423, 32.47559

Click on the map to get feature info

Data

Style Data

Name

WorldRoads

Workspace

Format

CSS

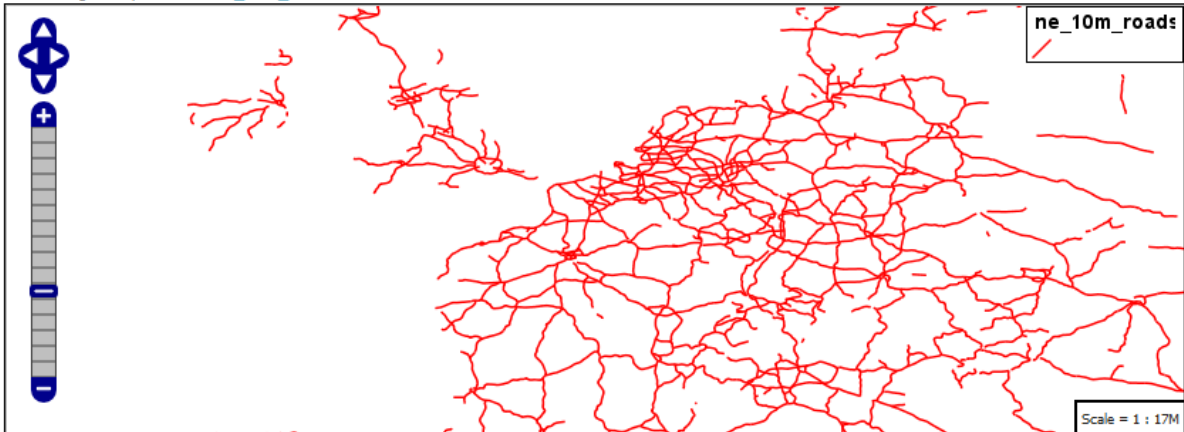
Legend

Legend

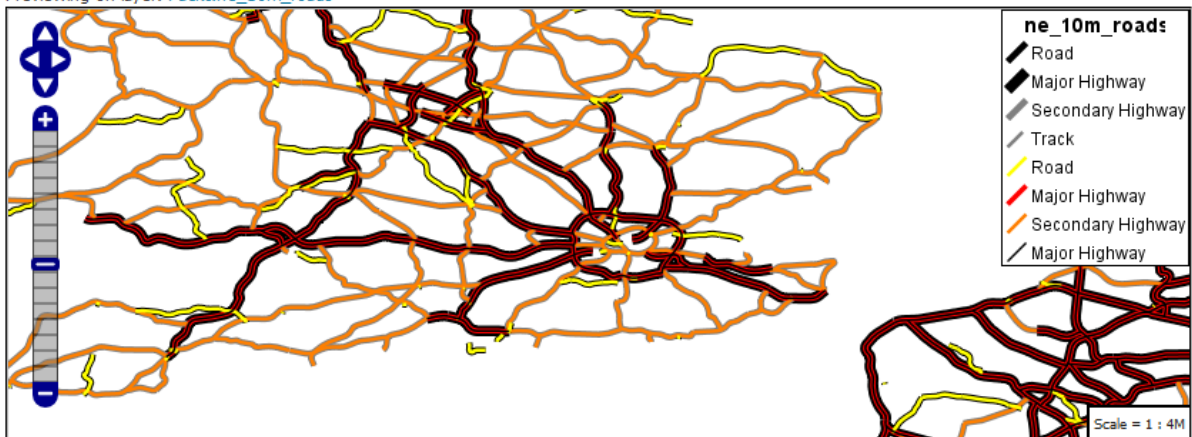
Add legend

[Preview legend](#)

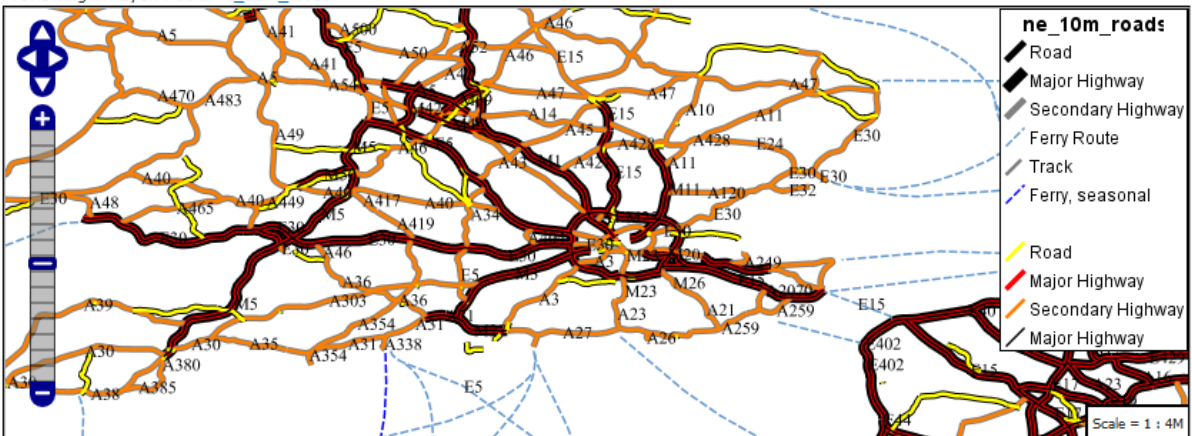
Previewing on layer: Packt:ne_10m_roads



Previewing on layer: Packt:ne_10m_roads

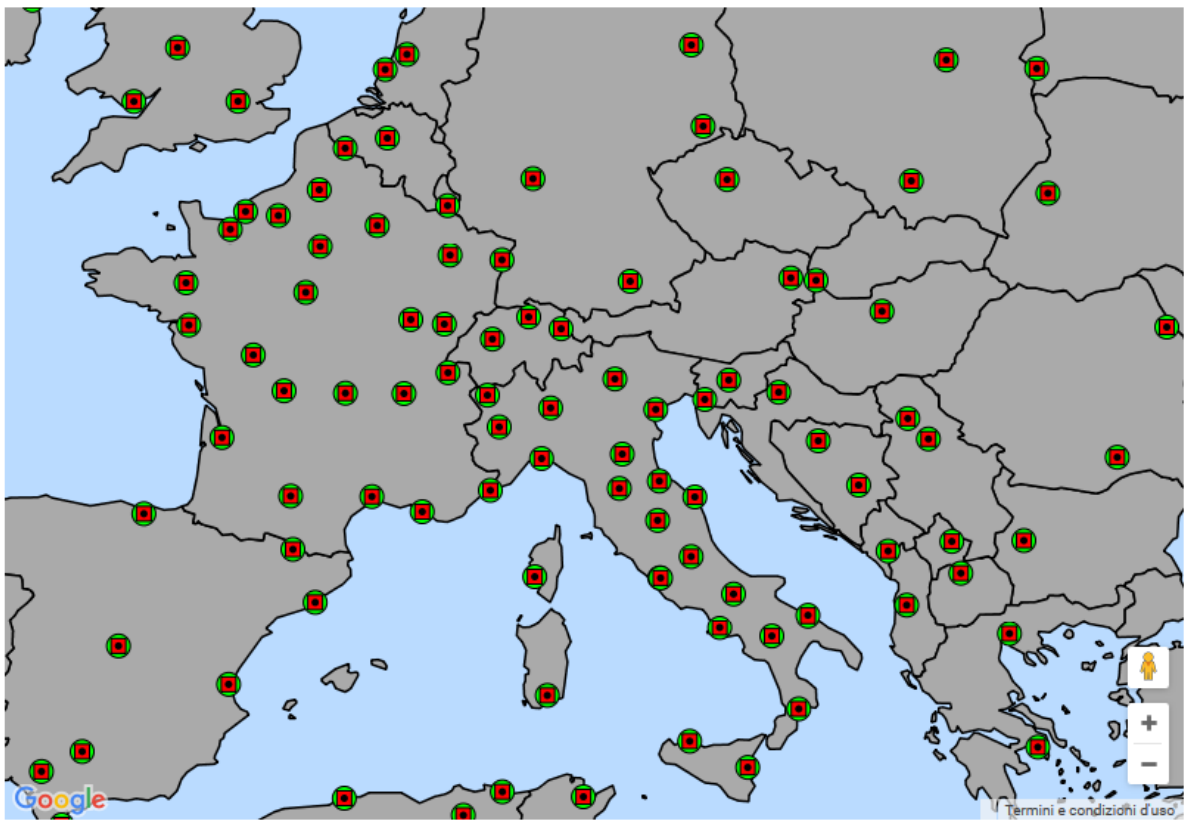
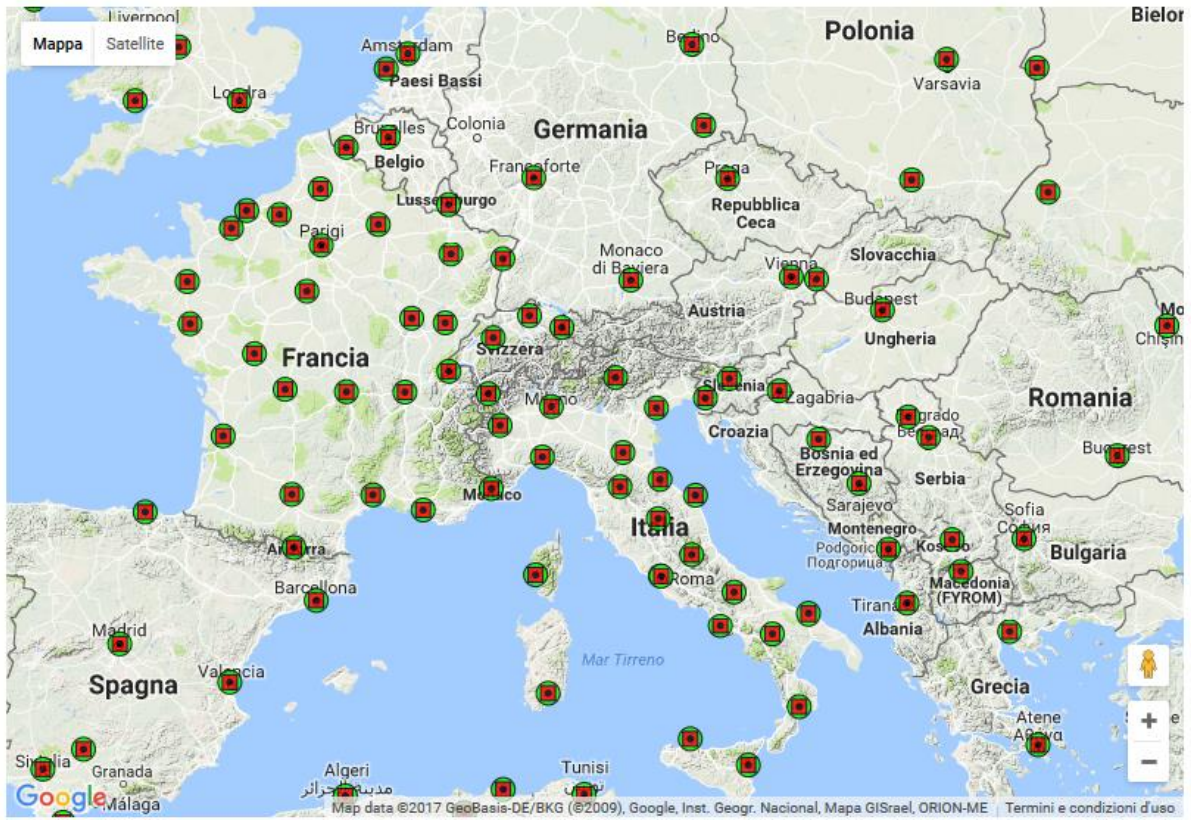


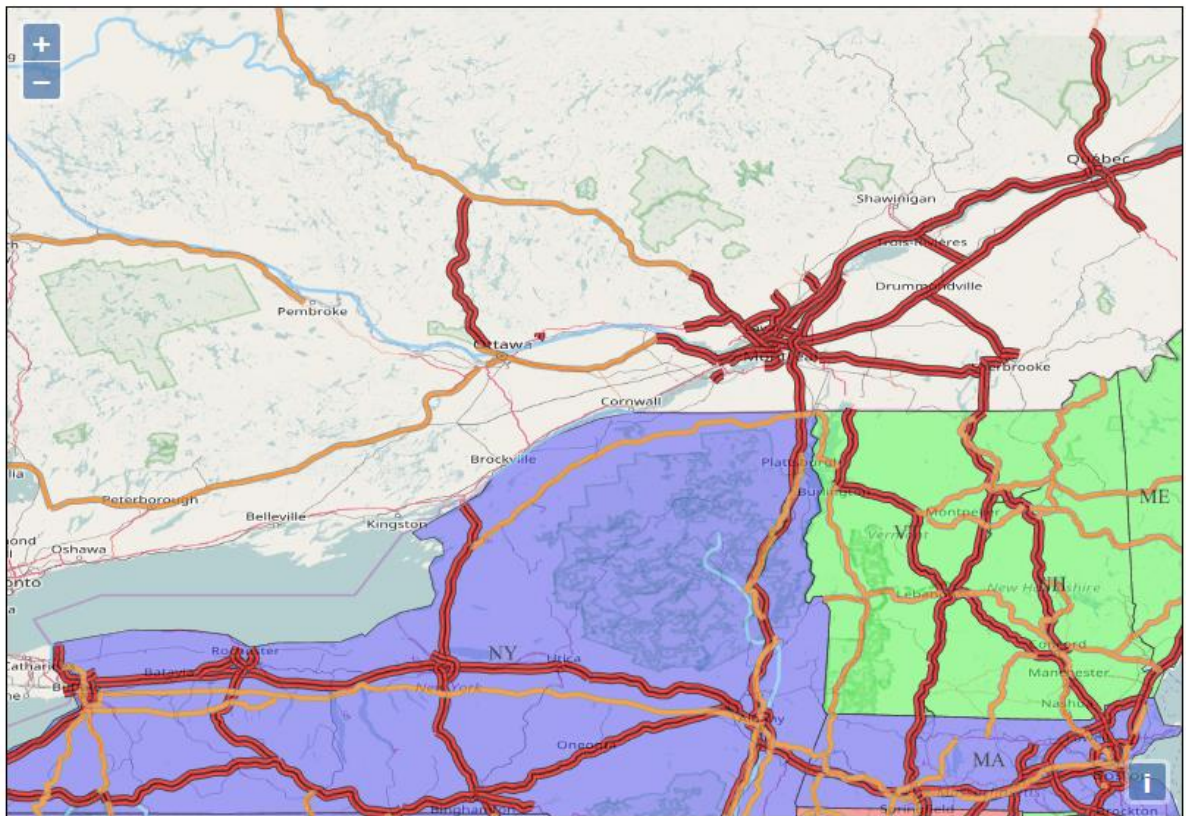
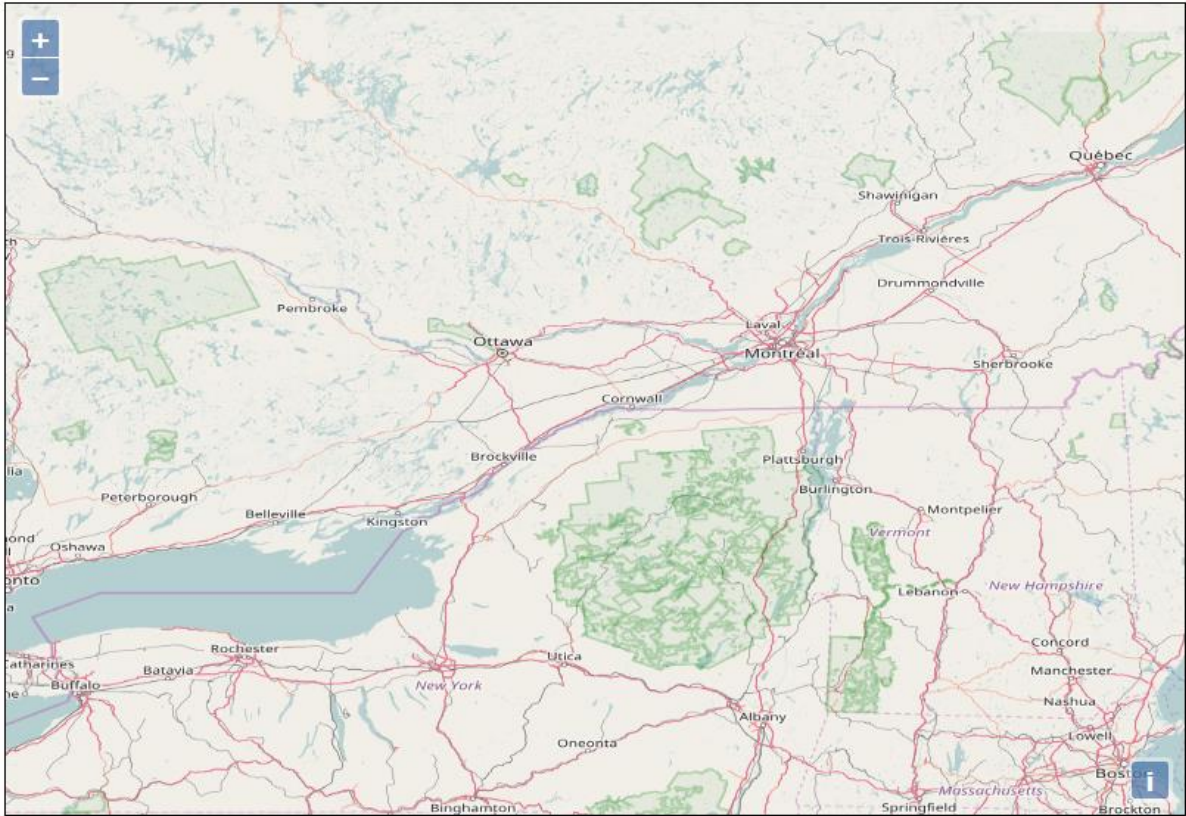
Previewing on layer: Packt:ne_10m_roads



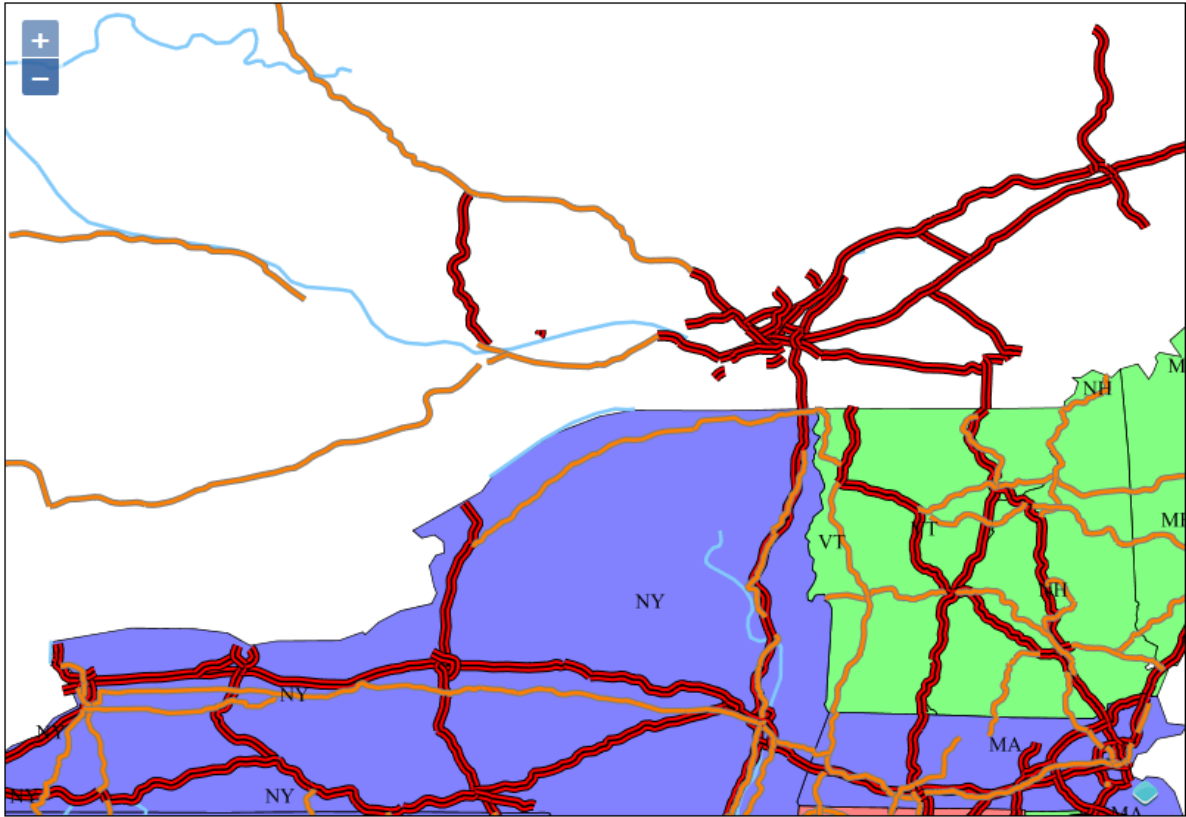
Chapter 7: Creating Simple Maps



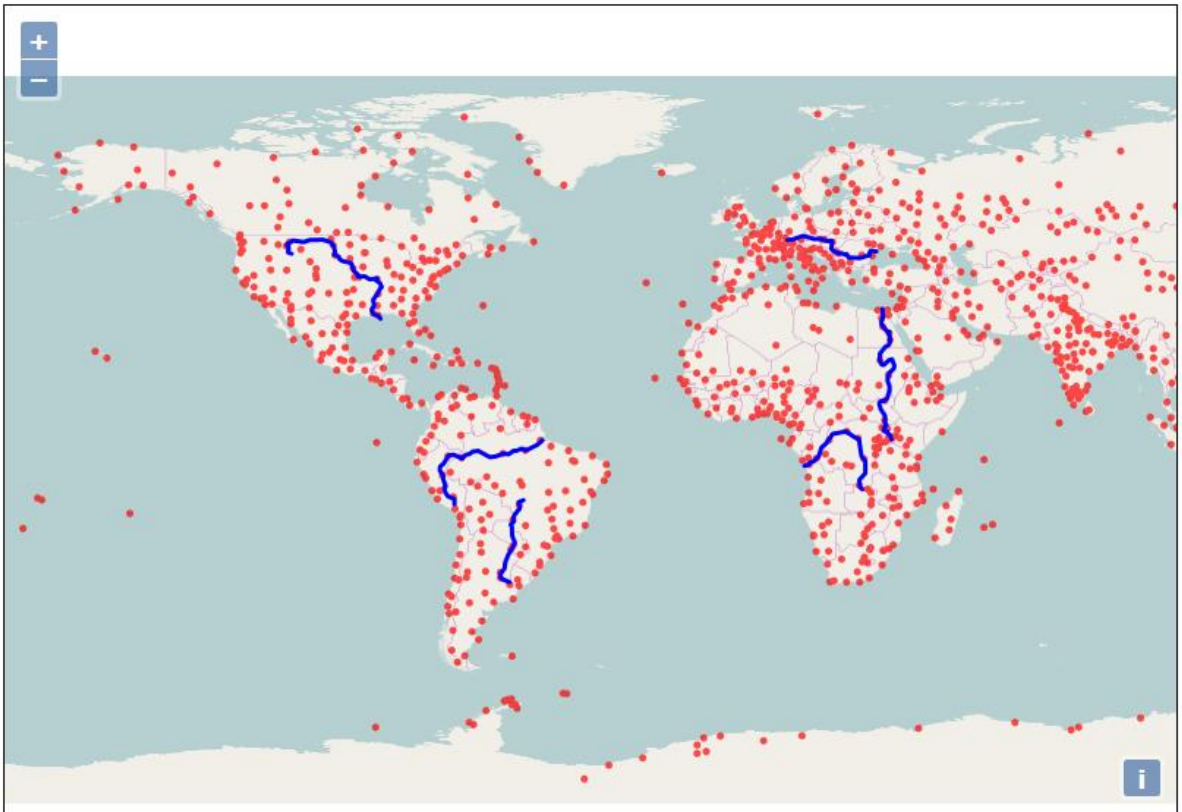
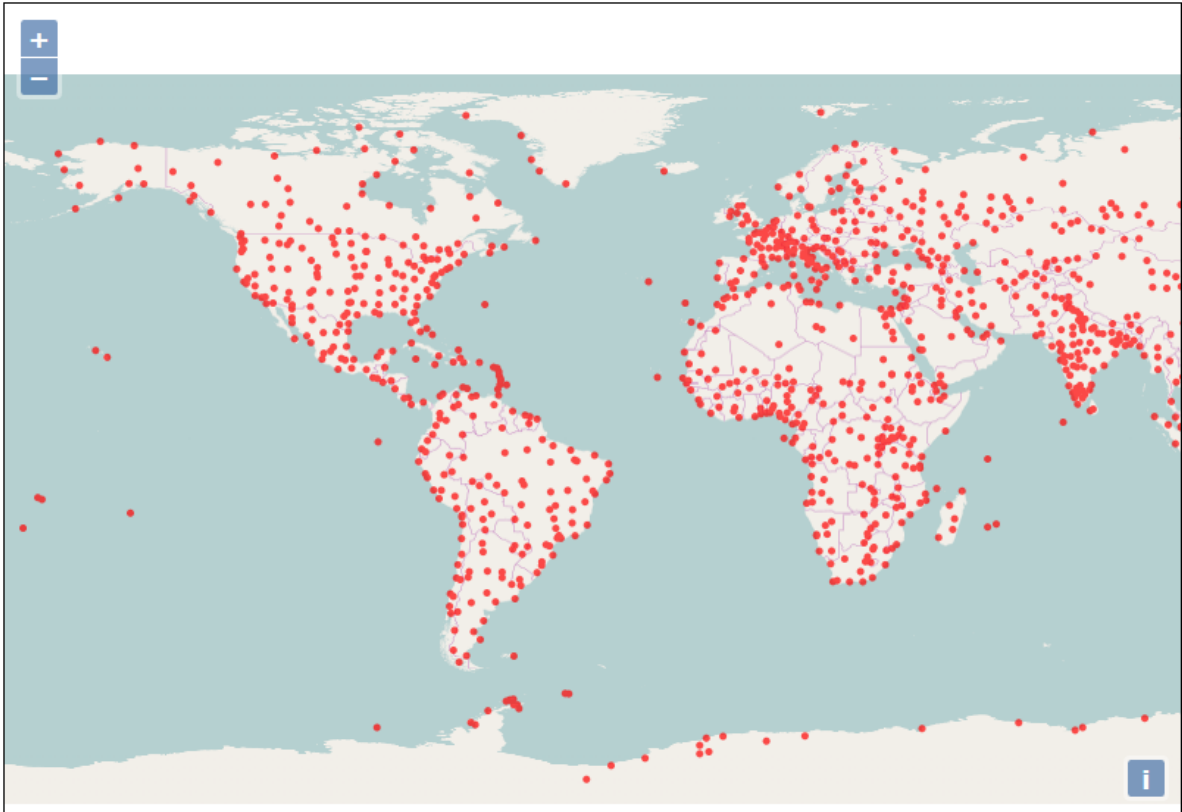


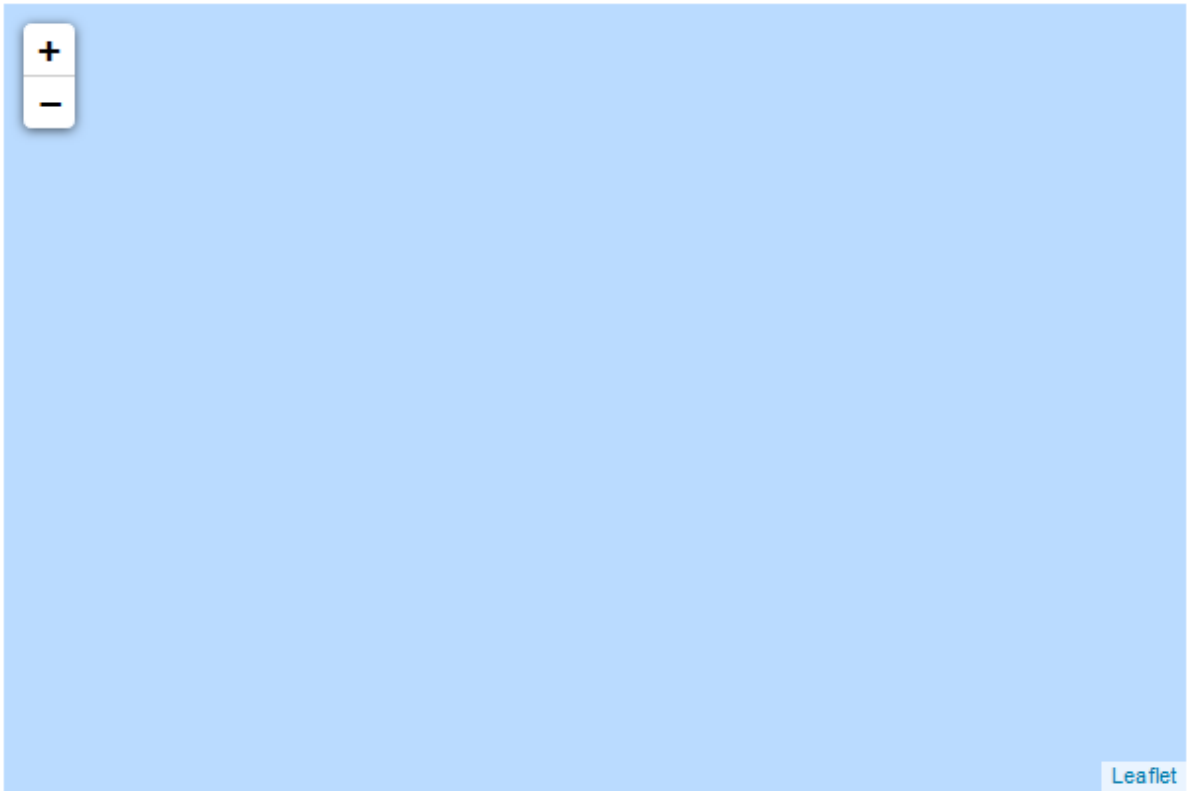


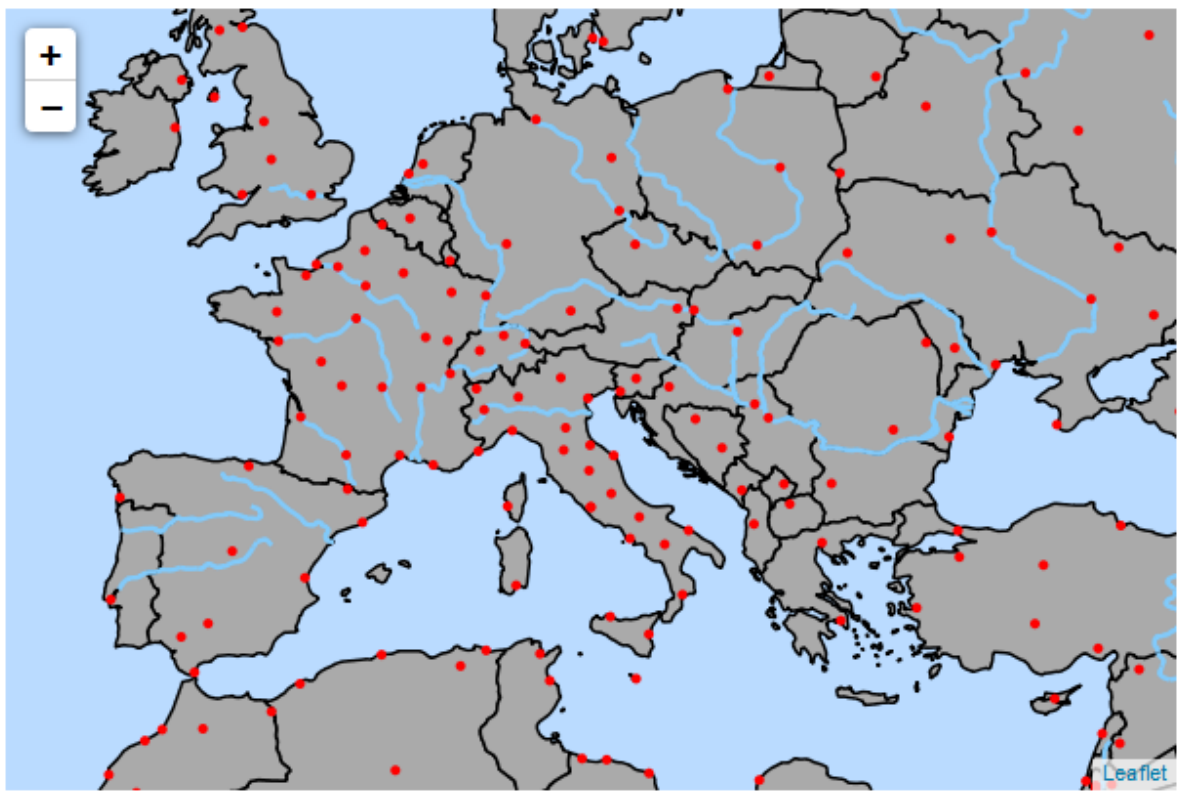
| | | | | | | | |
|---|-----|-----|---|----------------|------|-----------|-----------|
| ○ | 200 | GET | basemapWMS.html | localhost:8080 | html | In cache | 1,21 kB |
| ○ | 200 | GET | ol.css | openlayers.org | css | In cache | 3,77 kB |
| ○ | 200 | GET | ol.js | openlayers.org | js | In cache | 503,40 kB |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 159,23 kB | 159,23 kB |



| | | | | | | | | |
|---|-----|-----|---|----------------|------|-----------|-----------|--------|
| ▲ | 304 | GET | tildeWMS.html | localhost:8080 | html | 1,12 kB | 1,12 kB | 111 ms |
| ▲ | 304 | GET | ol.css | openlayers.org | css | 1,25 kB | 3,77 kB | 219 ms |
| ▲ | 304 | GET | ol.js | openlayers.org | js | 166,09 kB | 503,40 kB | 225 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 15,99 kB | 15,99 kB | 161 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 30,87 kB | 30,87 kB | 288 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 21,26 kB | 21,26 kB | 288 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 11,85 kB | 11,85 kB | 273 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 40,44 kB | 40,44 kB | 425 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 20,29 kB | 20,29 kB | 240 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 57,30 kB | 57,30 kB | 329 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 1,74 kB | 1,74 kB | 475 ms |
| ● | 200 | GET | wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | png | 3,83 kB | 3,83 kB | 525 ms |







Chapter 8: Performance and Caching

| | | | | | |
|----------------------------|-----------------------|-----------|------|---|--|
| /geoserver | <i>None specified</i> | GeoServer | true | 0 | Start Stop Reload Undeploy |
| | | | | | Expire sessions with idle ≥ 30 minutes |

Message: OK - Reloaded application at context path /geoserver

⊞ Packt:ne_50m_populated_places N/A 0,0 B ✓ Select One Seed/Truncate | Empty

<< < 1 2 > >> Results 1 to 25 (out of 37 items)

- Select One
- EPSG:4326 / jpeg
- EPSG:4326 / png
- EPSG:900913 / jpeg
- EPSG:900913 / png

⊞ Packt:ne_50m_populated_places N/A 1,77 MB ✓ Select One Seed/Truncate | Empty

<< < 1 2 > >> Results 1 to 25 (out of 37 items)

Disk Quota

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

Disk Quota

Enable disk quota

Disk quota check frequency:

10 Seconds

(Last run: 4 s ago.)

Maximum tile cache size

500 MiB

Using 2,43 MB 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)

Maximum tile cache size

MiB



When enforcing disk quota limits, remove tiles that are:

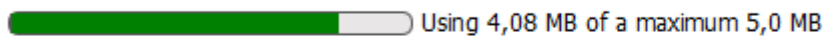
- Least frequently used
- Least recently used

Disk quota store type

In process database (H2)

Maximum tile cache size

MiB



When enforcing disk quota limits, remove tiles that are:

- Least frequently used
- Least recently used

Disk quota store type

In process database (H2)

Disk Quota


Enable disk quota

Disk quota check frequency:

Seconds

(Last run: 3 s ago.)

Maximum tile cache size

 Using 4,08 MB of a maximum 5,0 MB

When enforcing disk quota limits, remove tiles that are:

- Least frequently used
- Least recently used

Disk quota store type

Disk quota store type

Target database type

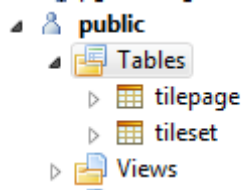
JDBC data source

JDBC Driver class name

JDBC connection URL

User name

Password



| | key | layer_name | gridset_id | blob_format |
|---|--|-----------------------------|-------------|-------------|
| 1 | Packt:NaturalEarthCountries#EPSG:4326#image/jpeg | Packt:NaturalEarthCountries | EPSG:4326 | image/jpeg |
| 2 | Packt:NaturalEarthCountries#EPSG:4326#image/png | Packt:NaturalEarthCountries | EPSG:4326 | image/png |
| 3 | Packt:NaturalEarthCountries#EPSG:900913#image/jpeg | Packt:NaturalEarthCountries | EPSG:900913 | image/jpeg |
| 4 | Packt:NaturalEarthCountries#EPSG:900913#image/png | Packt:NaturalEarthCountries | EPSG:900913 | image/png |

| | key | tileset_id | page_z | page_x | page_y | creation_time_minutes | frequency_of_use | last_access_time_minutes |
|---|---|----------------------------------|--------|--------|--------|-----------------------|------------------|--------------------------|
| 1 | myLayerGroup#EPSG:4326#image/png@4,16,6 | myLayerGroup#EPSG:4326#image/png | 6 | 4 | 16 | 25.016.255 | 0 | 25.016.255 |
| 2 | myLayerGroup#EPSG:4326#image/png@4,17,6 | myLayerGroup#EPSG:4326#image/png | 6 | 4 | 17 | 25.016.255 | 0 | 25.016.255 |
| 3 | myLayerGroup#EPSG:4326#image/png@4,2,2 | myLayerGroup#EPSG:4326#image/png | 2 | 4 | 2 | 25.016.255 | 0 | 25.016.255 |
| 4 | myLayerGroup#EPSG:4326#image/png@4,2,3 | myLayerGroup#EPSG:4326#image/png | 3 | 4 | 2 | 25.016.255 | 0 | 25.016.255 |
| 5 | myLayerGroup#EPSG:4326#image/png@4,3,2 | myLayerGroup#EPSG:4326#image/png | 2 | 4 | 3 | 25.016.255 | 0 | 25.016.255 |
| 6 | myLayerGroup#EPSG:4326#image/png@4,3,3 | myLayerGroup#EPSG:4326#image/png | 3 | 4 | 3 | 25.016.255 | 0 | 25.016.255 |
| 7 | myLayerGroup#EPSG:4326#image/png@4,4,3 | myLayerGroup#EPSG:4326#image/png | 3 | 4 | 4 | 25.016.255 | 0 | 25.016.255 |

Provided Services

- Enable direct integration with GeoServer WMS
- Enable WMS-C Service
- Enable TMS Service
- Enable Data Security

Default Caching Options for GeoServer Layers

Automatically configure a GeoWebCache layer for each new layer or layer group

Tile locking mechanism

Scegliearne uno

Automatically cache non-default styles

Default metatile size:

4 tiles wide by 4 tiles high

Default gutter size in pixels:

0

Default Tile Image Formats for:

Vector Layers

- application/json;type=utfgrid
- image/gif
- image/jpeg
- image/png
- image/png8
- image/vnd.jpeg-png

Raster Layers

- image/gif
- image/jpeg
- image/png
- image/png8
- image/vnd.jpeg-png

Layer Groups

- application/json;type=utfgrid
- image/gif
- image/jpeg
- image/png
- image/png8
- image/vnd.jpeg-png

In Memory BlobStore Options

Enable

Default Cached Gridsets

| Gridset | CRS | Tile Dimensions | Zoom levels | Disk Usage | |
|-------------|-------------|-----------------|-------------|------------|--|
| EPSG:4326 | EPSG:4326 | 256 x 256 | 22 | 4,72MB | |
| EPSG:900913 | EPSG:900913 | 256 x 256 | 31 | 0,0B | |

Add default gridset

Web Page 717 views

nps_boundary.derived.shp

[Visit page](#)

Zip File 2467 views

nps_boundary.original.zip

[Download](#)

Web Page 53 views

nps_boundary.derived.gml

[Download](#)

Manage the available gridsets or create a new one

- [+ Create a new gridset](#)
- [- Remove selected gridsets](#)

<< < 1 > >> Results 1 to 5 (out of 5 items)

| <input type="checkbox"/> | Gridset | CRS | Tile Dimensions | Zoom levels | Disk Usage | |
|--------------------------|-------------------------|-------------|-----------------|-------------|------------|-------------------------------|
| <input type="checkbox"/> | <i>GlobalCRS84Pixel</i> | EPSG:4326 | 256 x 256 | 18 | 0,0 B | Create a copy |
| <input type="checkbox"/> | <i>EPSG:4326</i> | EPSG:4326 | 256 x 256 | 22 | 4,72 MB | Create a copy |
| <input type="checkbox"/> | <i>GoogleCRS84Quad</i> | EPSG:4326 | 256 x 256 | 19 | 0,0 B | Create a copy |
| <input type="checkbox"/> | <i>EPSG:900913</i> | EPSG:900913 | 256 x 256 | 31 | 0,0 B | Create a copy |
| <input type="checkbox"/> | <i>GlobalCRS84Scale</i> | EPSG:4326 | 256 x 256 | 21 | 0,0 B | Create a copy |

<< < 1 > >> Results 1 to 5 (out of 5 items)

Coordinate Reference System

[EPSG:NAD83...](#)

Units: °

Meters per unit: 111319.49079327358

Gridset bounds

| Min X | Min Y | Max X | Max Y |
|-------|-------|-------|-------|
| -180 | 10 | -60 | 80 |

[Compute from maximum extent of CRS](#)

Tile width in pixels *

Tile height in pixels *

Tile Matrix Set

Define grids based on: Resolutions Scale denominators

| Level | Pixel Size | Scale | Name | Tiles |
|-------|--|--|----------------------|--|
| 0 | <input type="text" value="0,2734375"/> | <input type="text" value="1:976,5625000000001"/> | <input type="text"/> | 2 x 1 <input type="button" value="-"/> |

Tile Matrix Set

Define grids based on: Resolutions Scale denominators

| Level | Pixel Size | Scale | Name | Tiles |
|-------|---|--|----------------------|---------------|
| 0 | <input type="text" value="0,2734375"/> | 1: <input type="text" value="976,5625000000001"/> | <input type="text"/> | 2 x 1 |
| 1 | <input type="text" value="0,13671875"/> | 1: <input type="text" value="488,28125000000006"/> | <input type="text"/> | 4 x 2 |
| 2 | <input type="text" value="0,068359375"/> | 1: <input type="text" value="244,14062500000003"/> | <input type="text"/> | 7 x 4 |
| 3 | <input type="text" value="0,0341796875"/> | 1: <input type="text" value="122,07031250000001"/> | <input type="text"/> | 14 x 8 |
| 4 | <input type="text" value="0,01708984375"/> | 1: <input type="text" value="61,03515625000001"/> | <input type="text"/> | 28 x 16 |
| 5 | <input type="text" value="0,008544921875"/> | 1: <input type="text" value="30,517578125000004"/> | <input type="text"/> | 55 x 32 |
| 6 | <input type="text" value="0,0042724609375"/> | 1: <input type="text" value="15,258789062500002"/> | <input type="text"/> | 110 x 64 |
| 7 | <input type="text" value="0,00213623046875"/> | 1: <input type="text" value="7,629394531250001"/> | <input type="text"/> | 220 x 128 |
| 8 | <input type="text" value="0,001068115234375"/> | 1: <input type="text" value="3,8146972656250004"/> | <input type="text"/> | 439 x 256 |
| 9 | <input type="text" value="0,0005340576171875"/> | 1: <input type="text" value="1,9073486328125002"/> | <input type="text"/> | 878 x 512 |
| 10 | <input type="text" value="0,0002670288085938"/> | 1: <input type="text" value="0,9536743164062501"/> | <input type="text"/> | 1.756 x 1.024 |

| Gridset | Published zoom levels | Cached zoom levels | Grid subset bounds |
|-------------|---|---|--------------------|
| EPSG:900913 | <input type="text" value="Min"/> / <input type="text" value="Max"/> | <input type="text" value="Min"/> / <input type="text" value="Max"/> | Dynamic |
| EPSG:4326 | <input type="text" value="Min"/> / <input type="text" value="Max"/> | <input type="text" value="Min"/> / <input type="text" value="Max"/> | Dynamic |
| EPSG:4269 | <input type="text" value="Min"/> / <input type="text" value="Max"/> | <input type="text" value="Min"/> / <input type="text" value="Max"/> | Dynamic |

| <input type="checkbox"/> | Type | Layer Name | Disk Quota | Disk Used | BlobStore | Enabled | Preview | Actions |
|--------------------------|------|--------------------|------------|-----------|-----------|---------|---|-----------------------|
| <input type="checkbox"/> | | nurc:Pk50095 | N/A | 0,0 B | | | <input type="text" value="Select One"/> | Seed/Truncate Empty |
| <input type="checkbox"/> | | sf:restricted | N/A | 0,0 B | | | <input type="text" value="Select One"/> | Seed/Truncate Empty |
| <input type="checkbox"/> | | Packt:rivers | N/A | 0,0 B | | | <input type="text" value="Select One"/> | Seed/Truncate Empty |
| <input type="checkbox"/> | | sf:archsites | N/A | 0,0 B | | | <input type="text" value="Select One"/> | Seed/Truncate Empty |
| <input type="checkbox"/> | | Packt:nps_boundary | N/A | 0,0 B | | | <input type="text" value="Select One"/> | Seed/Truncate Empty |

Tile cache configuration

- Create a cached layer for this layer
- Enable tile caching for this layer
- Enable In Memory Caching for this Layer.

BlobStore

Metatiling factors

4 tiles wide by 4 tiles high

Gutter size in pixels

0

Tile Image Formats

- application/json;type=utfgrid
- image/gif
- image/jpeg
- image/png
- image/png8
- image/vnd.jpeg-png




Expire server cache after n seconds (set to 0 to use source setting)

0

Expire client cache after n seconds (set to 0 to use server setting)

0

Available gridsets

| Gridset | Published zoom levels | Cached zoom levels | Grid subset bounds |
|------------------|--|--------------------|---|
| EPSG:900913 | Min / Max | Min / Max | Dynamic  |
| EPSG:4326 | Min / Max | Min / Max | Dynamic  |
| Add grid subset: | Sceglierne uno  | | |



| | | | | | | | | |
|-------|-----|--|----------------|------------|------|-----------|-----------|--------|
| ● 200 | GET | plainWMS.html | localhost:8080 | document | html | 1,16 kB | 1,16 kB | 15 ms |
| ● 200 | GET | ol.css | openlayers.org | stylesheet | css | 1,25 kB | 3,77 kB | 750 ms |
| ● 200 | GET | ol.js | openlayers.org | script | js | 166,09 kB | 503,40 kB | 754 ms |
| ● 200 | GET | wmts?SERVICE=WMS&VERSION=1.3.0&REQUEST=... | localhost:8080 | img | png | 96,28 kB | 96,28 kB | |

| | | | | | | | | |
|-------|-----|---|----------------|------------|------|-----------|-----------|--------|
| ● 200 | GET | WMTS.html | localhost:8080 | document | html | 2,11 kB | 2,11 kB | 16 ms |
| ● 200 | GET | ol.css | openlayers.org | stylesheet | css | 1,25 kB | 3,77 kB | 929 ms |
| ● 200 | GET | ol.js | openlayers.org | script | js | 166,09 kB | 503,40 kB | 981 ms |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 16,08 kB | 16,08 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 20,90 kB | 20,90 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 12,02 kB | 12,02 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 18,53 kB | 18,53 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 12,05 kB | 12,05 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 15,25 kB | 15,25 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 14,19 kB | 14,19 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 11,94 kB | 11,94 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 13,97 kB | 13,97 kB | |
| ● 200 | GET | wmts?layer=Packt:NaturalEarthCountries&tilemat... | localhost:8080 | img | png | 2,43 kB | 2,43 kB | |

Packt:ne_50m_rivers_lake_centerlines N/A 0,0 B Select One Seed/Truncate | Empty



List (there are no tasks for other Layers)

Kill Tasks for Layer 'Packt:ne_50m_rivers_lake_centerlines'.

List of currently executing tasks:

- *none*

[Refresh list](#)

Please note:

- This minimalistic interface does not check for correctness.
- Seeding past zoomlevel 20 is usually not recommended.
- Truncating KML will also truncate all KMZ archives.
- Please check the logs of the container to look for error messages and progress indicators.

Here are the max bounds, if you do not specify bounds these will be used.

- EPSG:4326: -165.2439391752527,-50.24013722075608,176.32580610576724,73.33490387681252
- EPSG:900913: -18394871.1656638,-6487967.709079518,19628498.949407496,12252226.83435225

Create a new task:

Number of tasks to use:

Type of operation:

Grid Set:

Format:

Zoom start:

Grid Set:

Format:

Zoom start:

Zoom stop:


Modifiable Parameters: STYLES:

Bounding box:

These are optional, approximate values are fine.

List of currently executing tasks:

| Id | Layer | Status | Type | Estimated # of tiles | Tiles completed | Time elapsed | Time remaining | Tasks |
|-----------|--------------------------------------|---------------|-------------|-----------------------------|------------------------|---------------------|-----------------------|--|
| 1 | Packt:ne_50m_rivers_lake_centerlines | RUNNING | SEED | 1,845,730 | 3,472 | 1 minute 19 s | 2 hours 53 m | (Task 1 of 4) <input type="button" value="Kill Task"/> |
| 2 | Packt:ne_50m_rivers_lake_centerlines | RUNNING | SEED | 1,845,730 | 3,760 | 1 minute 19 s | 2 hours 40 m | (Task 2 of 4) <input type="button" value="Kill Task"/> |
| 3 | Packt:ne_50m_rivers_lake_centerlines | RUNNING | SEED | 1,845,730 | 3,728 | 1 minute 19 s | 2 hours 41 m | (Task 3 of 4) <input type="button" value="Kill Task"/> |
| 4 | Packt:ne_50m_rivers_lake_centerlines | RUNNING | SEED | 1,845,730 | 3,808 | 1 minute 19 s | 2 hours 38 m | (Task 4 of 4) <input type="button" value="Kill Task"/> |

 Packt:ne_50m_rivers_lake_centerlines N/A 375,43 MB


Chapter 9: Automating Tasks - GeoServer REST Interface

Name



Namespace URI


The namespace uri associated with this workspace



Default Workspace

Settings 

Enabled

| <input type="checkbox"/> | Data Type | Workspace | Store Name | Type | Enabled? |
|--------------------------|---|-----------|---------------------|---|----------|
| <input type="checkbox"/> |  | Packt | Natural Earth | Directory of spatial files (shapefiles) | ✓ |
| <input type="checkbox"/> |  | Packt | Natural Earth Roads | Shapefile | ✓ |

| <input type="checkbox"/> | Data Type | Workspace | Store Name | Type | Enabled? |
|--------------------------|---|-----------|-------------------------|---|----------|
| <input type="checkbox"/> |  | Packt | Natural Earth | Directory of spatial files (shapefiles) | ✓ |
| <input type="checkbox"/> |  | Packt | Natural Earth Countries | Shapefile | ✓ |
| <input type="checkbox"/> |  | Packt | Places | Properties | ✓ |





| | | | | | | |
|--------------------------|---|---------------------------|---------------------------------|-------------------------|---|-----------|
| <input type="checkbox"/> |  | Tasmania water bodies | topp:tasmania_water_bodies | taz_shapes | ✓ | EPSG:4326 |
| <input type="checkbox"/> |  | ne_110m_admin_0_countries | Packt:ne_110m_admin_0_countries | Natural Earth Countries | ✓ | EPSG:4326 |



Scale = 1 : 140M

-85.42969, 76.64063

Click on the map to get feature info

| | | | | | | |
|--------------------------|---|---------------------------|---------------------------------|-------------------------|---|-----------|
| <input type="checkbox"/> |  | ne_110m_admin_0_countries | Packt:ne_110m_admin_0_countries | Natural Earth Countries | ✓ | EPSG:4326 |
| <input type="checkbox"/> |  | ne_110m_admin | Packt:ne_110m_admin | gisdata | ✓ | EPSG:4326 |
| <input type="checkbox"/> |  | ne_110m_admin | Packt:ne_110m_admin | gisdata | ✓ | EPSG:4326 |
| <input type="checkbox"/> |  | World Rivers | Packt:worldrivers | gisdata | ✓ | EPSG:4326 |

Declared SRS

EPSG:4326

Find...

EPSG:WGS 84...

SRS handling

Force declared

Bounding Boxes

Native Bounding Box

| Min X | Min Y | Max X | Max Y |
|-------|-------|-------|-------|
| 0 | 0 | -1 | -1 |

[Compute from data](#)

[Compute from SRS bounds](#)

Lat/Lon Bounding Box

| Min X | Min Y | Max X | Max Y |
|-------|-------|-------|-------|
| 0 | 0 | -1 | -1 |

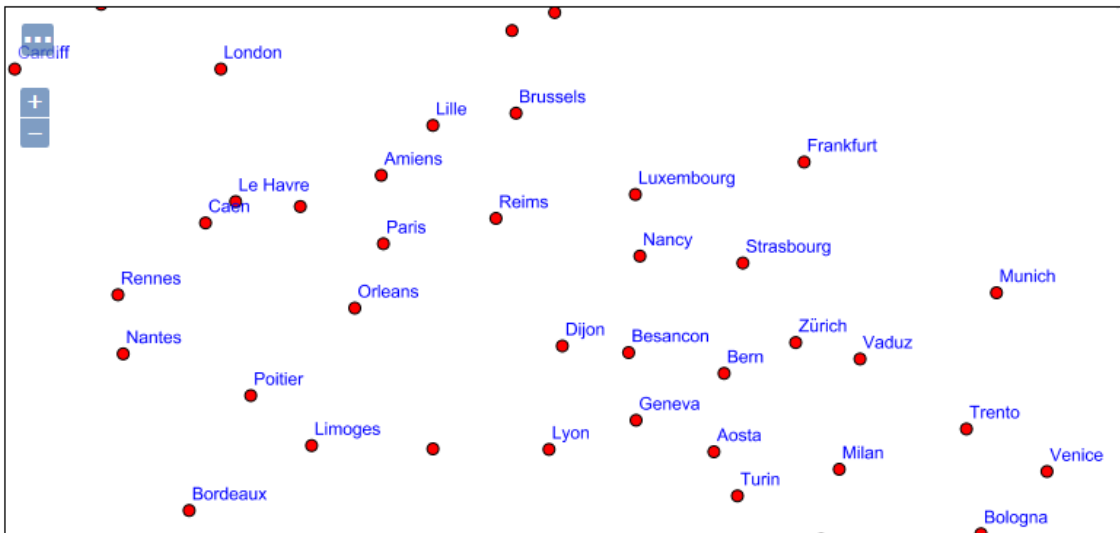
[Compute from native bounds](#)

PopulatedPlaces

PopulatedPlacesBlueLabeled

PopulatedPlacesComplex

WMS version: 1.1.1 Tiling: Single tile Antialias: Full Format: PNG 24bit Styles: PopulatedPlacesBlueLabeled



Scale = 1 : 9M

Click on the map to get feature info

2.50488, 46.10962

Primary Contact

Contact

Stefano Iacovella

Organization

Packt

Position

Chief Geographer

Email

stefano.iacovella@myself.myhome

Limited SRS list

4326, 3857, 4269, 3003, 3004

Output bounding box for every supported CRS

Chapter 10: Securing GeoServer Before Production

Security Settings

Configure security settings

Active role service

default ▾

Encryption

Encrypt web admin URL parameters

Password encryption

Weak PBE ▾


⚠ No strong cryptography available, installation of the unrestricted policy jar files is recommended

Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 8 Download

Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 8

You must accept the [Oracle Binary Code License Agreement for the Java SE Platform Products](#) to download this software.

Thank you for accepting the Oracle Binary Code License Agreement for the Java SE Platform Products; you may now download this software.


| Product / File Description | File Size | Download |
|--|-----------|--|
| Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 8 | 0.01 MB |  jce_policy-8.zip |

Encryption

Encrypt web admin URL parameters

Password encryption







Strong PBE ▾

 Strong cryptography available

Save

Cancel

Security

-  Settings
-  Authentication
-  Passwords
-  Users, Groups, Roles
-  Data
-  Services

Passwords

Password settings

Active master password provider [Change password](#)

Master password provider
default

Current password

New password

Confirmation

[Change Password](#)

[Cancel](#)

[Services](#) [Users/Groups](#) [Roles](#)

User Group Services

[+ Add new](#)

[- Remove selected](#)

| <input type="checkbox"/> | Name | Type | Password Encryption | Password Policy |
|--------------------------|---------|--------------------------------|---------------------|-----------------|
| <input type="checkbox"/> | default | Default XML user/group service | Digest | default |

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

XML User Group Service default

Default user group service stored as XML

Settings **Users** **Groups**

[+ Add new group](#)
[- Remove Selected](#)
[- Remove Selected and remove role associations](#)

<< < > >> Results 0 to 0 (out of 0 items)

| <input type="checkbox"/> | Groupname | Enabled |
|--------------------------|-----------|---------|
|--------------------------|-----------|---------|

<< < > >> Results 0 to 0 (out of 0 items)

Add a new group

Specify a new group name and associate roles with the group.

Group name

 Enabled

<< < 1 > >> Results 0 to 0 (out of 0 items)

| <input type="checkbox"/> | Groupname | Enabled |
|--------------------------|------------------|---------|
| <input type="checkbox"/> | Packt_Admins | ✓ |
| <input type="checkbox"/> | Packt_Editors | ✓ |
| <input type="checkbox"/> | Packt_Publishers | ✓ |

<< < 1 > >> Results 0 to 0 (out of 0 items)

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

| <input type="checkbox"/> | Username | Enabled | Has Attributes |
|--------------------------|----------|---------|----------------|
| <input type="checkbox"/> | admin | ✓ | |

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

User name

Enabled

Password

Confirm password

Groups

| Available Groups | | Selected Groups |
|---|--|---------------------------------------|
| <input type="checkbox"/> Packt_Editors <input type="checkbox"/> Packt_Publishers | <input type="button" value="⇒"/> <input type="button" value="⇐"/> | <input type="checkbox"/> Packt_Admins |

Results 1 to 1 (out of 1 items)

| <input type="checkbox"/> Username | Enabled | Has Attributes |
|---------------------------------------|---------|----------------|
| <input type="checkbox"/> John Smith | ✓ | |
| <input type="checkbox"/> Michael Ford | ✓ | |
| <input type="checkbox"/> Steven Plant | ✓ | |
| <input type="checkbox"/> admin | ✓ | |

Results 1 to 1 (out of 1 items)

▼ default
 + Add new role
 - Remove Selected

| <input type="checkbox"/> Role | Parent | Parameters |
|--------------------------------------|--------|------------|
| <input type="checkbox"/> ADMIN | | |
| <input type="checkbox"/> GROUP_ADMIN | | |

Results 1 to 2 (out of 2 items)

Settings

Roles

+ Add new role

- Remove Selected

<< < 1 > >> Results 1 to 2 (out of 2 items)

Search

| <input type="checkbox"/> | Role | Parent | Parameters |
|--------------------------|-------------|--------|------------|
| <input type="checkbox"/> | ADMIN | | |
| <input type="checkbox"/> | GROUP_ADMIN | | |

Name

PACKT_VIEWER

Parent role

Name

PACKT_EDITOR

Parent role

PACKT_VIEWER

<< < 1 > >> Results 1 to 2 (out of 2 items)

Search

| <input type="checkbox"/> | Role | Parent | Parameters |
|--------------------------|--------------|--------------|------------|
| <input type="checkbox"/> | ADMIN | | |
| <input type="checkbox"/> | GROUP_ADMIN | | |
| <input type="checkbox"/> | PACKT_ADMIN | PACKT_EDITOR | |
| <input type="checkbox"/> | PACKT_EDITOR | PACKT_VIEWER | |
| <input type="checkbox"/> | PACKT_VIEWER | | |

<< < 1 > >> Results 1 to 2 (out of 2 items)

Roles taken from active role service: default

| Available Roles | | Selected Roles |
|---|--|----------------|
| ADMIN GROUP_ADMIN PACKT_ADMIN PACKT_EDITOR | <input type="button" value="=>"/> <input type="button" value="=<"/> | PACKT_VIEWER |

Data Security

Manage data security: edit, add and remove access rules

- Add new rule
- Remove Selected(s)

<< < 1 > >> Results 1 to 2 (out of 2 items)

| Rule path | Roles |
|--------------------------------|-------------------|
| <input type="checkbox"/> *.*.r | * |
| <input type="checkbox"/> *.*.w | GROUP_ADMIN,ADMIN |

<< < 1 > >> Results 1 to 2 (out of 2 items)

Workspace

▼

Layer

▼

Access mode

▼

Roles

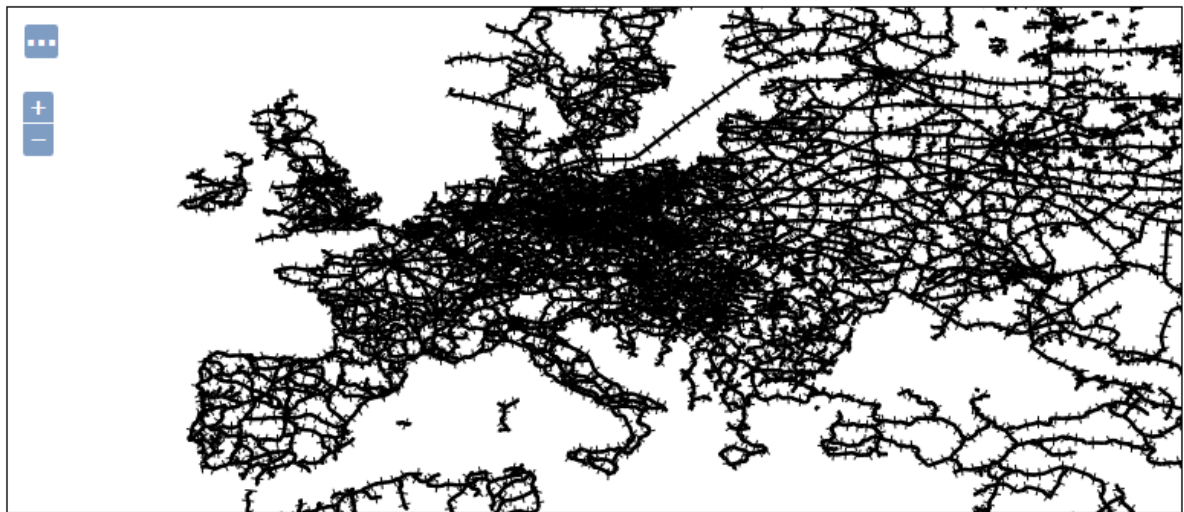
Grant access to any role

| Available Roles | | Selected Roles |
|---|--|----------------|
| Admin GROUP_ADMIN PACKT_ADMIN PACKT_EDITOR ROLE_ANONYMOUS ROLE_AUTHENTICATED | <input type="button" value="=>"/> <input type="button" value="=<"/> | PACKT_VIEWER |

Results 1 to 5 (out of 5 items)

| <input type="checkbox"/> Rule path | Roles |
|------------------------------------|-------------------|
| <input type="checkbox"/> *.*.r | * |
| <input type="checkbox"/> *.*.w | GROUP_ADMIN,ADMIN |
| <input type="checkbox"/> Packt.*.r | PACKT_VIEWER |
| <input type="checkbox"/> Packt.*.w | PACKT_EDITOR |
| <input type="checkbox"/> Packt.*.a | PACKT_ADMIN |

Results 1 to 5 (out of 5 items)



Scale = 1 : 35M

-11.51367, 61.25977

Click on the map to get feature info

<< < 1 > >> Results 1 to 16 (out of 16 items)

| <input type="checkbox"/> | Type | Title | Name | Store | Enabled | Native SRS |
|--------------------------|------|--------------------------------|--------------------------------------|-------------------------|---------|------------|
| <input type="checkbox"/> | | europe | Packt:europe | gisdata | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | europe_points | Packt:europe_points | gisdata | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | NaturalEarthCountries | Packt:NaturalEarthCountries | gisdata | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | ne_110m_admin | Packt:ne_110m_admin | gisdata | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | World Rivers | Packt:worldrivers | gisdata | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | ne_10m_railroads | Packt:ne_10m_railroads | Natural Earth | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | ne_10m_roads | Packt:ne_10m_roads | Natural Earth | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | ne_50m_admin_0_countries | Packt:ne_50m_admin_0_countries | Natural Earth | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | ne_50m_populated_places | Packt:ne_50m_populated_places | Natural Earth | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | ne_50m_rivers_lake_centerlines | Packt:ne_50m_rivers_lake_centerlines | Natural Earth | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | nps_boundary | Packt:nps_boundary | Natural Earth | ✓ | EPSG:4269 |
| <input type="checkbox"/> | | ne_110m_admin_0_countries | Packt:ne_110m_admin_0_countries | Natural Earth Countries | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | buffer | Packt:buffer | Places | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | places | Packt:places | Places | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | point | Packt:point | Places | ✓ | EPSG:4326 |
| <input type="checkbox"/> | | rivers | Packt:rivers | Places | ✓ | EPSG:4326 |

<< < 1 > >> Results 1 to 16 (out of 16 items)

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

Request

URL

Body

```

1 <!--
2     YOU PROBABLY DO NOT WANT TO RUN THIS QUERY SINCE
3     IT WILL MODIFY YOUR SOURCE DATA FILES
4
5     It will add a simple line to the tasmania_roads dataset.
6
7     -->
8 <wfs:Transaction service="WFS" version="1.0.0"
9   xmlns:wfs="http://www.opengis.net/wfs"
10  xmlns:topp="http://www.openplans.org/topp"
11  xmlns:gml="http://www.opengis.net/gml"
12  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
13  xsi:schemaLocation="http://www.opengis.net/wfs http://schemas.opengis.net/wfs/1.0.0/WFS-
transaction.xsd http://www.openplans.org/topp http://localhost:8080/geoserver
/wfs/DescribeFeatureType?typename=topp:tasmania_roads">
14   <wfs:Insert>
15     <topp:tasmania_roads>
16       <topp:the_geom>
17         <gml:MultiLineString srsName="http://www.opengis.net/gml/srs/epsg.xml#4326">
18           <gml:lineStringMember>
19             <gml:LineString>
20               <gml:coordinates decimal="." cs="," ts=" ">
21 494475.71056415,5433016.8189323 494982.70115662,5435041.95096618
22               </gml:coordinates>
23             </gml:LineString>

```

User Name Password

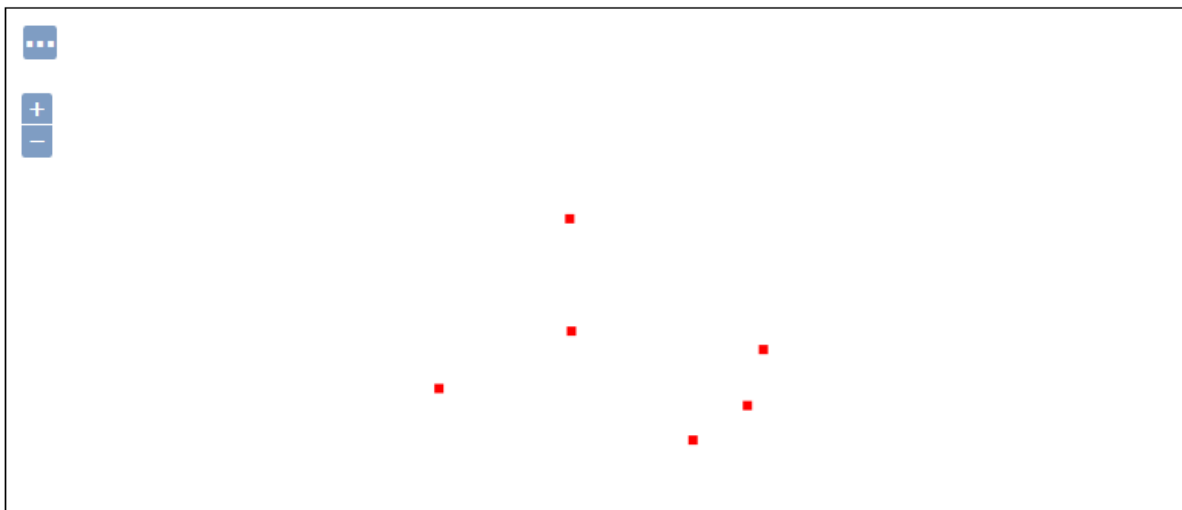
```

- <ServiceExceptionReport version="1.2.0"
  xsi:schemaLocation="http://www.opengis.net/ogc http://schemas.opengis.net
/wfs/1.0.0/OGC-exception.xsd">
- <ServiceException>
  {https://www.packtpub.com/}places is read-only
</ServiceException>
</ServiceExceptionReport>

```

User Name Password

```
- <wfs:WFS_TransactionResponse version="1.0.0"
  xsi:schemaLocation="http://www.opengis.net/wfs http://localhost:8080/geoserver
  /schemas/wfs/1.0.0/WFS-transaction.xsd">
  - <wfs:InsertResult>
    <ogc:FeatureId fid="new0"/>
  </wfs:InsertResult>
  - <wfs:TransactionResult>
    - <wfs:Status>
      <wfs:SUCCESS/>
    </wfs:Status>
  </wfs:TransactionResult>
</wfs:WFS_TransactionResponse>
```

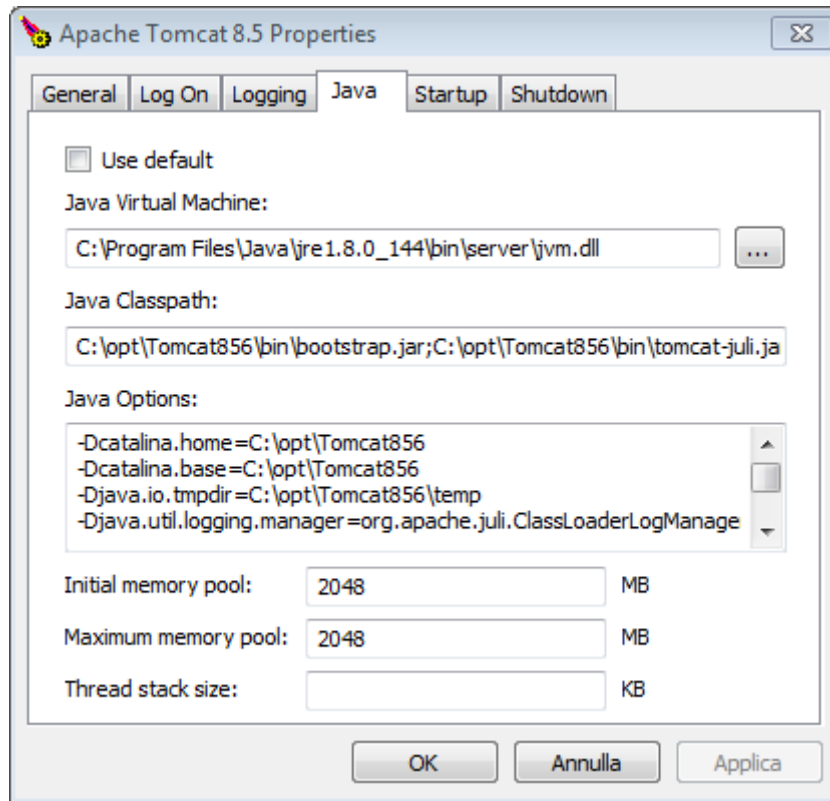


Scale = 1 : 70M

149.94141, 3.86719

Click on the map to get feature info

Chapter 11: Tuning GeoServer in a Production Environment



| | | |
|----------------------------|--------|-----------------------------|
| Native JAI | true | |
| Native JAI ImageIO | true | |
| JAI Maximum Memory | 181 MB | |
| JAI Memory Usage | 0 KB | Free memory |
| JAI Memory Threshold | 75.0 | |
| Number of JAI Tile Threads | 7 | |
| JAI Tile Thread Priority | 5 | |

Services

- WMTS
- WCS
- WFS
- WMS

Service Metadata

- Enable WCS
- Strict CITE compliance

Service Metadata

- Enable WFS
- Strict CITE compliance

Features

Maximum number of features

Maximum number of features for preview (Values ≤ 0 use the maximum number of features)

- Return bounding box with every feature
- Ignore maximum number of features when calculating hits

Service Level

- Basic
- Transactional
- Complete

Resource consumption limits

Max rendering memory (KB)

Max rendering time (s)

Max rendering errors (count)

It works!



GeoServer

Welcome

Welcome

This GeoServer belongs to Packt.

35 Layers ➕ Add layers

13 Stores ➕ Add stores

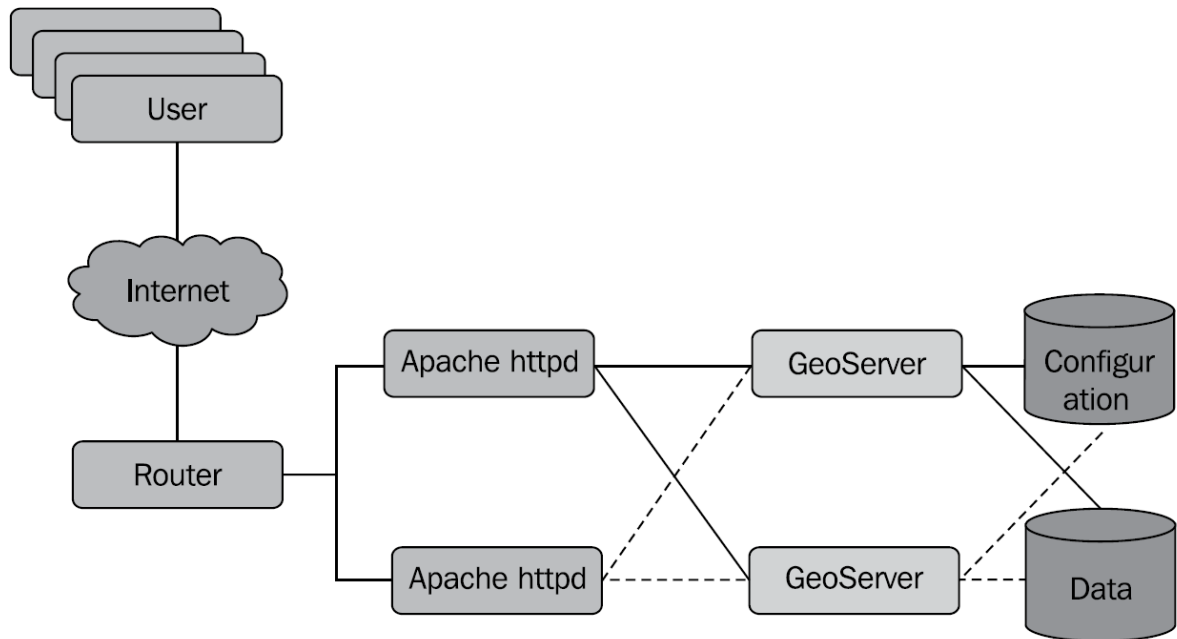
9 Workspaces ➕ Create workspaces

About & Status

- Server Status
- GeoServer Logs
- Contact Information
- About GeoServer

Data

- Layer Preview
- Workspaces
- Stores



LoadBalancer Status for balancer://geoserver

StickySession Timeout FailoverAttempts Method
 - 0 1 byrequests

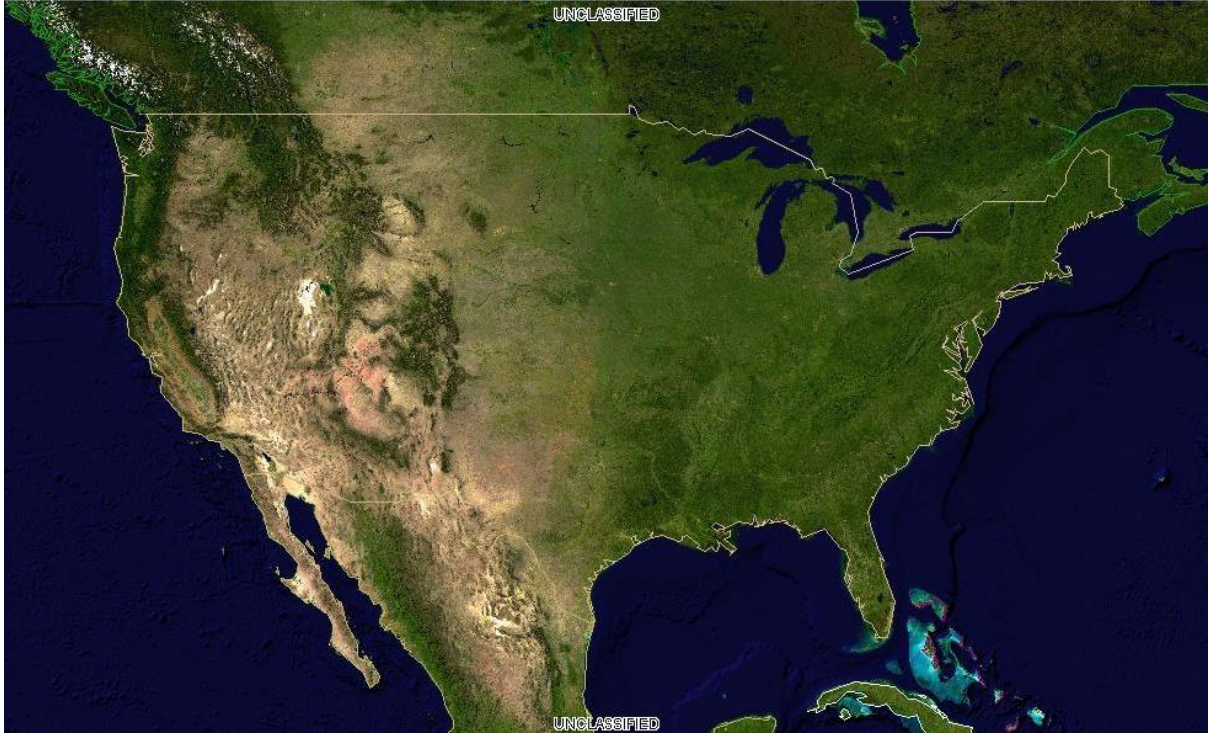
| Worker URL | Route | RouteRedir | Factor | Set | Status | Elected | To | From |
|--|-------|------------|--------|-----|--------|---------|----|------|
| ajp://localhost:8009/geoserver | 1 | 0 | Ok | 6 | 0 | 9.4K | | |
| ajp://localhost:8109/geoserver | 1 | 0 | Ok | 5 | 0 | 80K | | |

LoadBalancer Status for balancer://geoserver

StickySession Timeout FailoverAttempts Method
- 0 1 byrequests

| Worker URL | Route | RouteRedir | Factor | Set | Status | Elected | To | From |
|---|-------|------------|--------|-----|--------|---------|----|------|
| ajp://localhost:8009/geoserver | | | 1 | 0 | Ok | 10 | 0 | 14K |
| ajp://localhost:8109/geoserver | | | 3 | 0 | Ok | 31 | 33 | 43K |

Chapter 12: Going Further - Getting Help and Troubleshooting



Edit Vector Data Source

Edit an existing vector data source

PostGIS (JNDI)

PostGIS Database (JNDI)

Basic Store Info

Workspace *

Packt

Data Source Name *

PostGISJNDI

Description

Enabled

Connection Parameters

dbtype *

postgis

jndiReferenceName *

java:comp/env/jdbc/postgis

schema

Namespace *

https://www.packtpub.com/

<< < 1 > >> Results 0 to 0 (out of 0 items) Search



| Published | Layer name | Action |
|-----------|--------------------------|---------|
| | europe | Publish |
| | europe_points | Publish |
| | ne_110m_admin | Publish |
| | ne_50m_admin_0_countries | Publish |
| | rivers | Publish |
| | rivers2 | Publish |
| | worldrivers | Publish |

<< < 1 > >> Results 0 to 0 (out of 0 items)

Miscellaneous

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

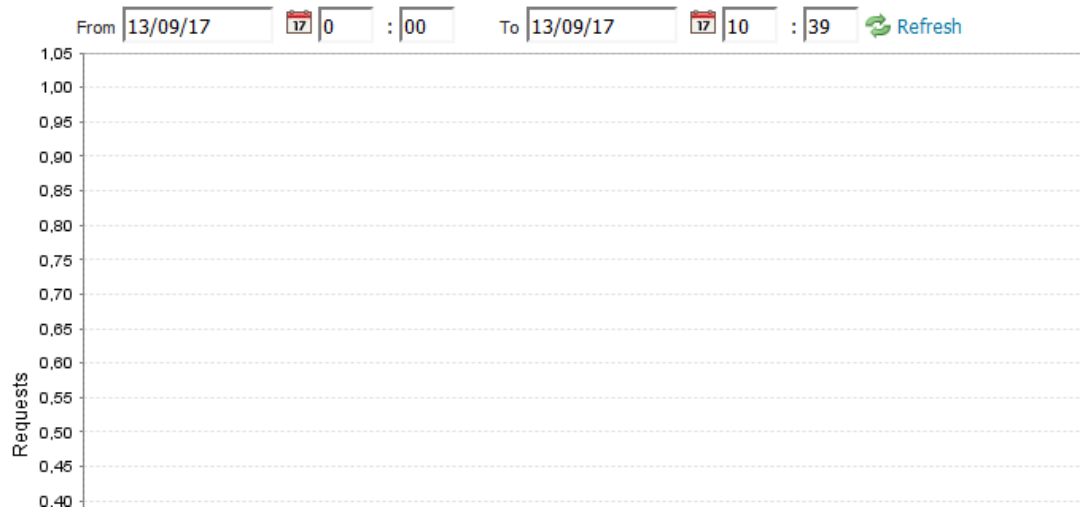
Monitor

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

Activity

Recent Server Activity

Live Daily Weekly Monthly



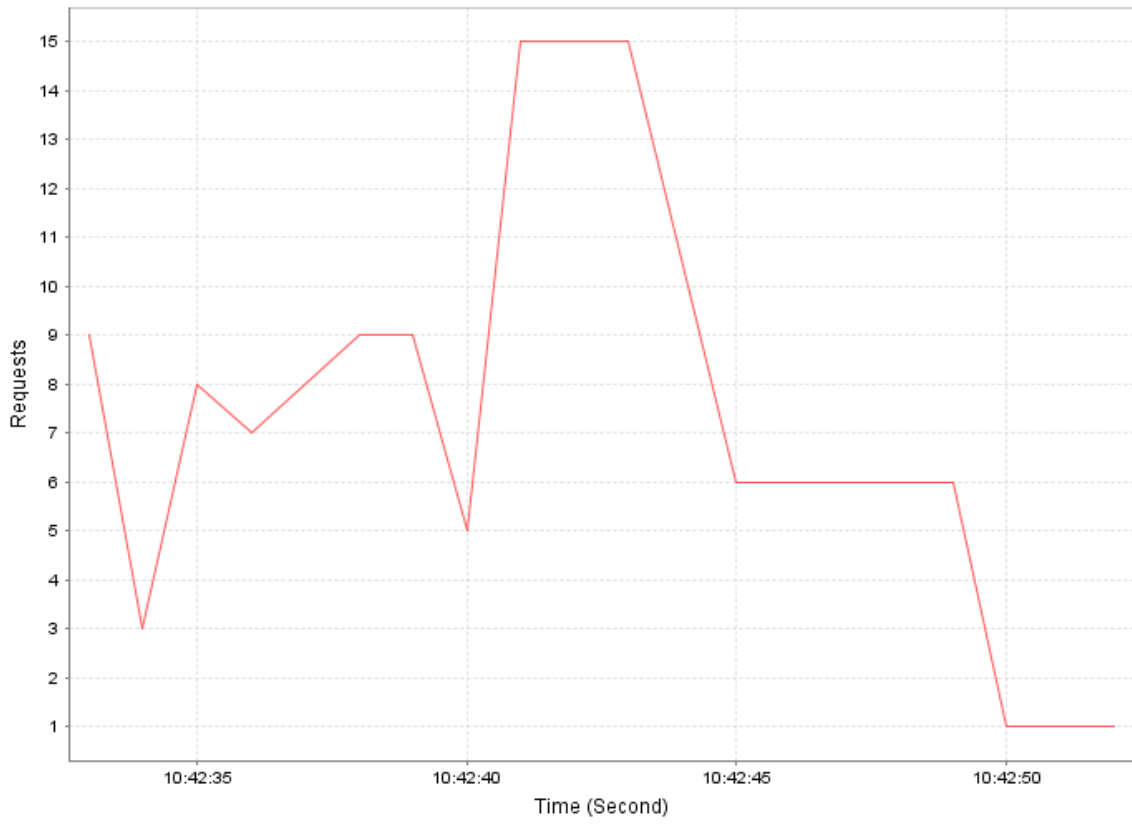
Live

Daily

Weekly

Monthly

From 13/09/17 0 : 00 To 13/09/17 10 : 43 Refresh



WMS Request Summary

