

# State of GeoNode 2.10

Viareggio – Italy (LU)  
2019-06-11



# This presentation is brought to you by



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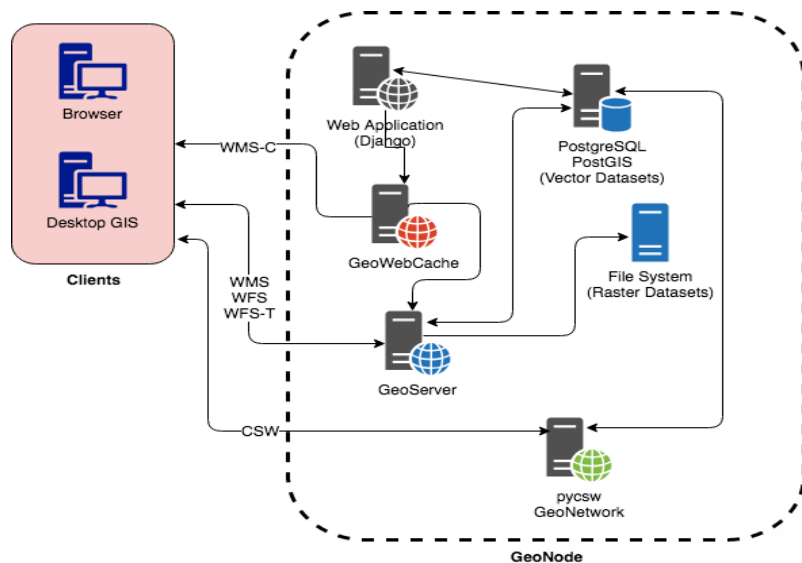
# GeoNode at a Glance

A web framework based on Python and Django to allow people to upload, describe, share and use their geospatial data.

We usually define GeoNode as a geospatial-CMS.

## Core Components

- **Django**
- **SQLite/PostgreSQL-PostGIS**
- **GeoServer/QGIS Server**
- **GeoWebCache**
- **pycsw / GeoNetwork**
- **(MapStore)**



# Capabilities

- **Upload** geospatial datasets (by default shapefiles and GeoTIFFs)
- User with appropriate permissions can **edit layer metadata**, which are exposed by OGC CSW and REST, to provide search/discovery capability
- Create **thematic maps** accessible to general public
- Users with appropriate permissions can **edit layer styles** and features (for vector layers)
- **Granular permission systems**: viewing, downloading, metadata editing, styles and feature editing for a layer can be restricted to users or groups
- GeoNode exposes a number of **standards** for each layer: **OGC (WMS, WMS-C, WFS, WFS-T, WCS, CSW)** and mass market search standards (OAI-PMH, SRU, OpenSearch)

# Release History

- *June 2019, **GeoNode 2.10*** (Django 1.11.20, GeoServer 2.14, pycsw 2.2.0)
- *April 2018, **GeoNode 2.8*** (Django 1.8.19, GeoServer 2.12.2, pycsw 2.0.2, group moderation and resources publication workflow, SLD upload, metadata wizard)
- *May 2017, **GeoNode 2.6*** (Django 1.8.7, GeoServer 2.9, pycsw 2.0.2, React client, QGIS server backend, ansible and docker setup, Ubuntu 16.04 support)
- *November 2015, **GeoNode 2.4*** (Django 1.6.11, GeoServer 2.7, pycsw 1.10.5, django-guardian, groups, remote services, responsive template, Ubuntu 14.04 support)
- *April 2014, **GeoNode 2.0*** (Django 1.5.5, GeoServer 2.5, pycsw 1.8.6, django-polymorphic, bootstrap, Ubuntu 12.04 support)
- *October 2012, **GeoNode 1.2*** (Django 1.4, GeoServer 2.3, South migrations, django-taggit, social features, comments and ratings, find/add layers widget)
- *May 2012, **GeoNode 1.1.1*** (Ubuntu 10.04 and 11.04 installer)
- *December 2010, **GeoNode 1.0***, with major contributions from OpenGeo, the World Bank, GFDRR, UNISDR, and GEM
- *August 2010, **GeoNode 1.0-beta***

# Summits and code sprints

- **GeoNode Summit 2019:** Viareggio, Italy (hosted by GeoSolutions)
- **GeoNode Summit 2018:** Turin, Italy (hosted by ITHACA)
- **GeoNode Code Sprint 2016:** Bonn, Germany and New Orleans, LA, USA
- **GeoNode Summit 2016:** Rome, Italy (hosted by UN WFP)
- **GeoNode Code Sprint 2015:** New Orleans, LA, USA and Turin, Italy
- **GeoNode Summit 2012:** Cambridge, MA, USA (hosted by Harvard University)
- **GeoNode Summit 2011:** Washington DC (hosted by World Bank)

# Community growth and adoption

The World Bank, OpenGeo, Australia Indonesia Facility for Disaster Reduction (AIFDR), MapStory, Global Earthquake Model (GEM) Foundation, Harvard WorldMap, ROGUE (US Army Corps of Engineers), South Pacific Applied Geoscience Commission (SOPAC), SERVIR (US National Aeronautics and Space Administration / NASA), Regional Centre for Mapping of Resources for Development (RCMRD, Kenya), Information Technology for Humanitarian Assistance Cooperation and Action (ITHACA, Italy), UN World Food Programme (WFP), Comision Permanente de Contingencias (COPECO, Honduras), Humanitarian Information Unit (HIU, US State Department), Marine Civil Information Management System (MARCIMS, US Marine Corps), National Geospatial-Intelligence Agency (US NGA), Office of Secretary of Defense (US), Pacific Disaster Center, Central Asian Institute for Applied Geosciences (CAIAG, Kyrgyzstan), National Research Council, Institute of Marine Sciences (Italy), European Commission Joint Research Centre (JRC), World Agroforestry Centre (ICRAF), Massachusetts Institute of Technology (MIT, US), National Oceanic and Atmospheric Administration Center for Weather and Climate Prediction (NOAA NCWCP, US Department of Commerce), Politecnico di Milano (Italy), Humanitarian Data Exchange (HDX, United Nations Office for the Coordination of Humanitarian Affairs), Agency for International Development (US AID), HABAKA Innovation Hub (Madagascar), GESP (Gestione Elaborazione Studio Pianificazione, Italy), Zhejiang University (China), Ritsumeika University (Japan), Intergovernmental Authority on Development (IGAD), (MapStand Ltd), (UNESCO IHP-WINS), Consiglio Nazionale delle Ricerche (CNR Italy), Uganda Bureau of Statistics – Uganda Boureau Of Statistics (UBOS), Istituto Superiore per la Protezione e la Ricerca Ambientale - (ISPRA Italy), Skeena Knowledge Trust - (SKT Canada)

...

# Community and infrastructure

- Official **PSC** elected by the community and composed today by 5 members
- ~20 active core **committers** across several organizations
- ~500 members on the **users** list
- ~120 members on the **developers** list
- Mailing list traffic growing steadily
- Successfully onboarding new developers and contributing organizations
- ~350 **Pull Requests** Merged in the last year
- Continuous Integration + Automated Builds
- Working toward a regular release cycle



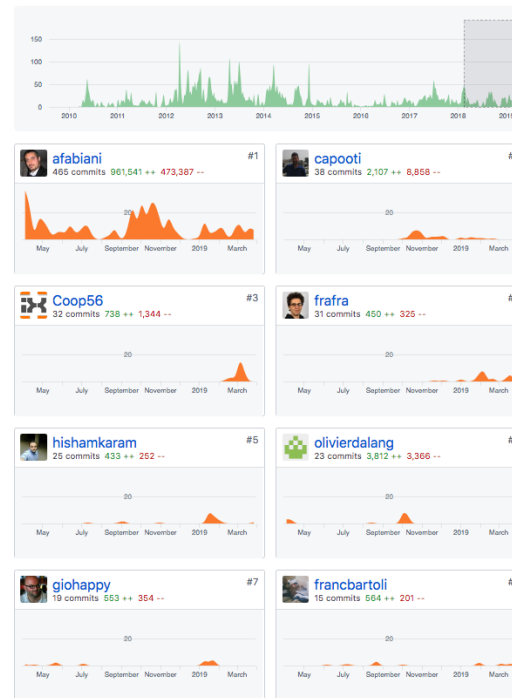
# Active contributors

- World Bank
- GeoSolutions
- Harvard University
- NINA - Norsk institutt for naturforskning
- GeoBeyond
- Terranodo
- Boundless
- Joint Research Centre
- UN WFP
- ITHACA
- MapStory
- The Pacific Community
- CSGIS
- CartoLogic

Apr 10, 2018 – Apr 10, 2019

Contributions: Commits

Contributions to master, excluding merge commits



# Active contributors

CoderStats(GeoNode)

GitHub user name

Get Stats

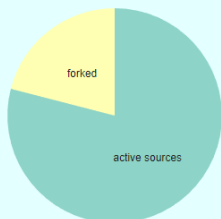
GeoNode Development Team



Joined GitHub 29 Sep 2009

[GeoNode](#)  
[geonode.org](#)  
[Global](#)

Repo types



<> Pushed to repos

43

Main languages

8

Total Issues

304

Total forks

1087

Total stars

887

Followers

0

Following

0

## Summary

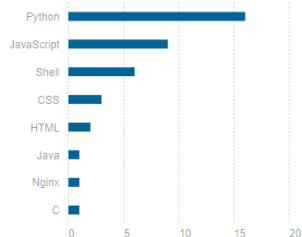
GeoNode Development Team has 45 repositories on GitHub, the latest 45 with user activity were loaded from GitHub's web service for this evaluation. GeoNode Development Team has pushed to **43** of these repositories. This is a high ratio congratulations!

**8** different main languages were identified across all repos pushed to. The main language is the one with the largest amount of code in a given repository, as identified by GitHub's [linguist](#). Assuming a basic level of proficiency in all these languages GeoNode Development Team can be considered hyperpolyglot in the world of computer languages. **Python** occurs most frequently – 16 times – as the main repo language.

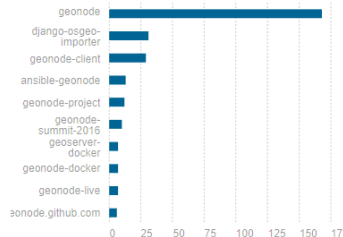
The total number of forks across all pushed to repositories indicates that the GitHub projects GeoNode Development Team contributes to are actually used by other people.

## Rankings

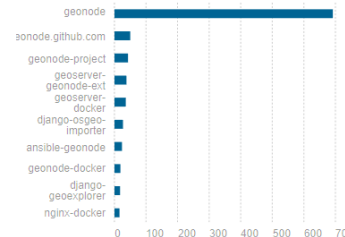
### Languages



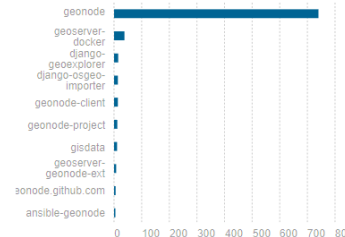
### Issues



### Forks



### Stars

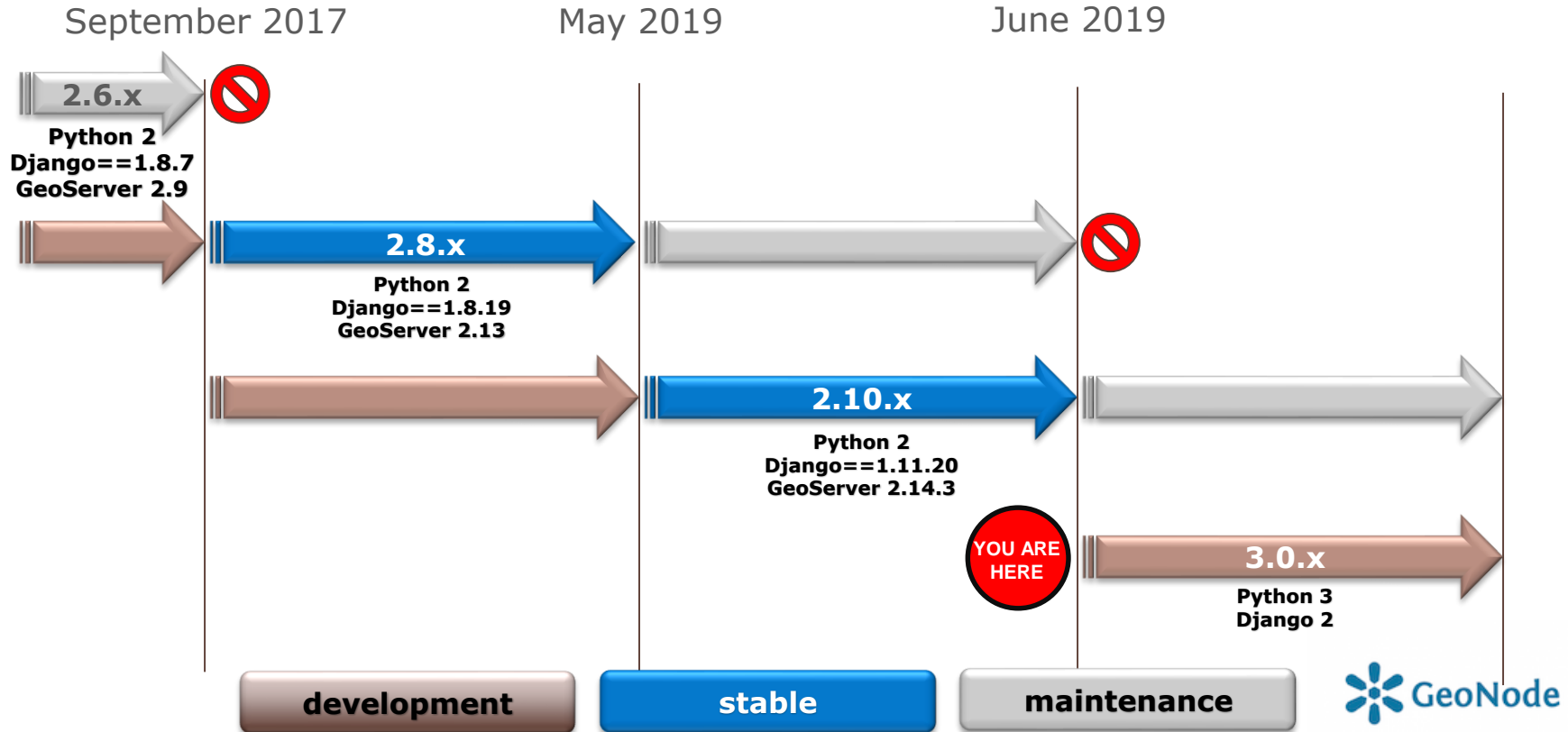


# GeoNode 2018/19

What's in a year?



# Releases covered by this presentation



# Are you using a older version? Upgrade!

- User/Developer lists and Gitter typically covers only supported versions
  - Today it means 2.8.x and 2.10.x
  - From June it will mean 2.10.x and 3.0.x
- Security fixes and installation support on new Oss being added to supported versions only!
- Moving data from old versions will be much harder if not impossible
- Web interfaces and GIS clients will be much different. No one will be able to backport fixes or improvements to the old ones.
- Please upgrade your GeoNode installations!!!



# What's new?



# Upgrade? What's in it for me?

- Let's check what's new in 2.10 upcoming release
- Check the bottom of each slide to see who sponsored a certain feature, who implemented it, and what version contains it

Sponsor

Author

Version



# Upgrade to GeoServer 2.14.3

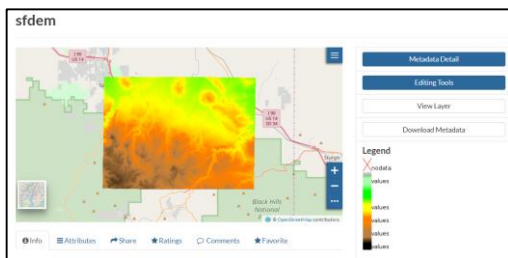
- Important Security and performance fixes
- Updated versions of community modules:
  - ✓ *Backup & Restore*
  - ✓ *OAuth2*
  - ✓ *GeoFence*
  - ✓ *GeoWebCache*
- Support for more styles and improved compatibility with QGIS SLD export
- Almost ready to support 2.15.x and 2.16.x



# Remote Services Improvements

Remote Services <a href="#">Register a new Service</a>		
Title	URL	Type
GeoServer Web Map Service <sup>2</sup>	https://demo.geo-solutions.it/geoserver/wms	Web Map Service
World Imagery <sup>1</sup>	http://server.arcgisonline.com/arcgis/rest/services/World_Imagery/MapServer	ArcGIS REST MapServer

- Import Legends and as much as metadata fields as possible
- Allows remote resource filtering and exposure to the catalogue



- Improved stability on harvesting
- Support for more endpoints, WMS, ArcGIS REST, GeoNode OWS APIs

Import resources			Manage
httpserverarcgisonlinecomarcgisrestservicesworld_imagerymapserver			<a href="#">Service rescanned</a> <a href="#">Re-scan Service for new Resources</a>
5 resources can be imported			
<input type="checkbox"/> Id	Name	Description	
<input type="checkbox"/> 0	World Imagery	World Imagery	
<input type="checkbox"/> 1	Low Resolution 15m Imagery	Low Resolution 15m Imagery	
<input type="checkbox"/> 2	High Resolution 60cm Imagery	High Resolution 60cm Imagery	
<input type="checkbox"/> 3	High Resolution 30cm Imagery	High Resolution 30cm Imagery	
<input type="checkbox"/> 4	Citations	Citations	
<a href="#">Clear Filter</a> <a href="#">Back to service details</a> <a href="#">Import Resources</a>			

# Support to Temporal Series

## boxes\_with\_date

### ESRI Shapefile

- [boxes\\_with\\_date.dbf Remove](#)
- [boxes\\_with\\_date.prj Remove](#)
- [boxes\\_with\\_date.qix Remove](#)
- [boxes\\_with\\_date.shp Remove](#)
- [boxes\\_with\\_date.shx Remove](#)

Files are ready to be ingested! A temporal dimension may be added to this Layer. [Continue](#)



## Inspect data for "boxes\_with\_date"

Configure as Time-Series: ☒ On ?

Search

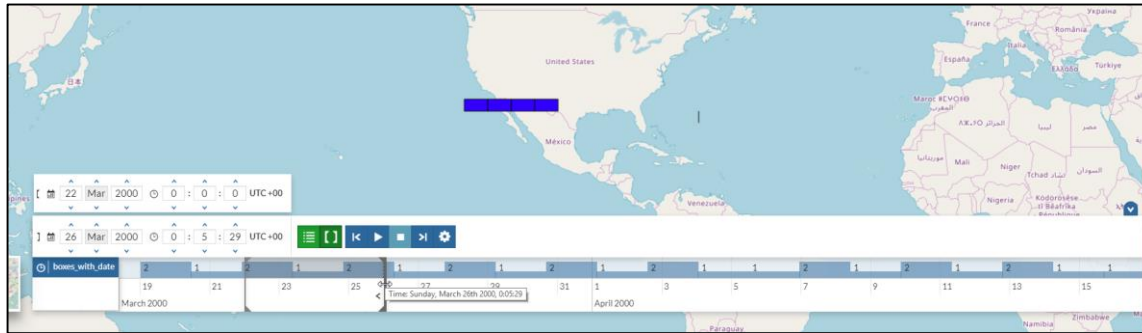
* Date	Id
2000/03/01	0
2000/03/02	1
2000/03/03	2
2000/03/04	3
2000/03/05	4
2000/03/06	5
2000/03/07	6
2000/03/08	7
2000/03/09	8
2000/03/10	9

Showing 1 to 10 of 100 rows  rows per page

[1](#) [2](#) [3](#) [4](#) [5](#) ... [10](#)

[Cancel](#) [Next](#)

[Advanced Options](#)



IGAD  
UNESCO

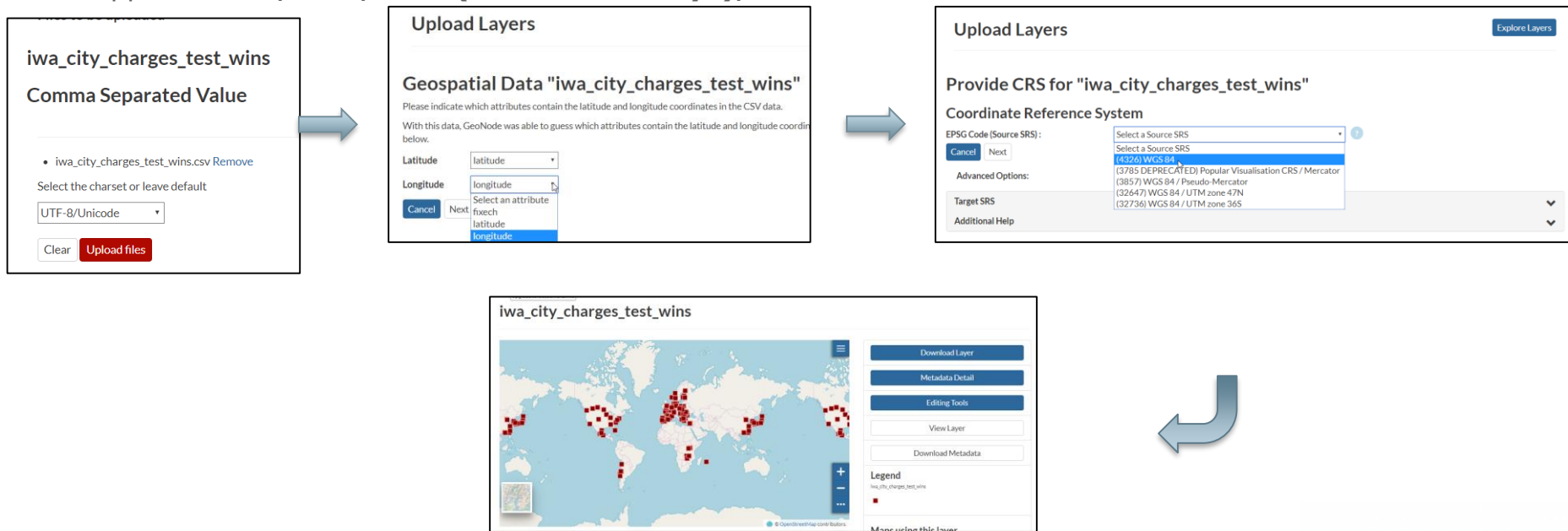
GeoSolutions

2.8.2 - 2.10



# Improvements to Uploaders and data formats

- **SLDs** and metadata **XML** can be included directly on a **ZIP** file
- Supports: **CSV, KML, KMZ (Ground Overlays), JSON**



UNESCO  
GeoSolutions

GeoSolutions

2.8.2 - 2.10



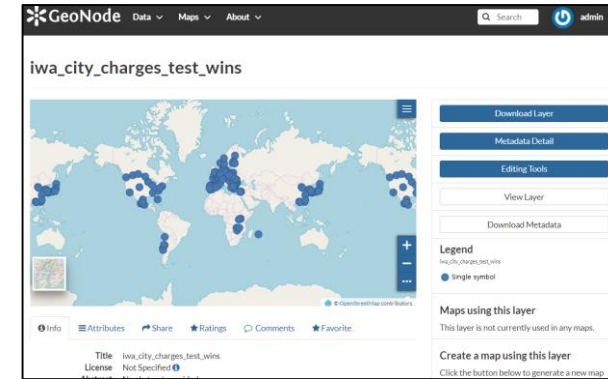
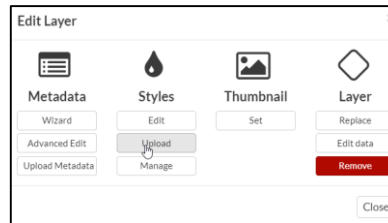
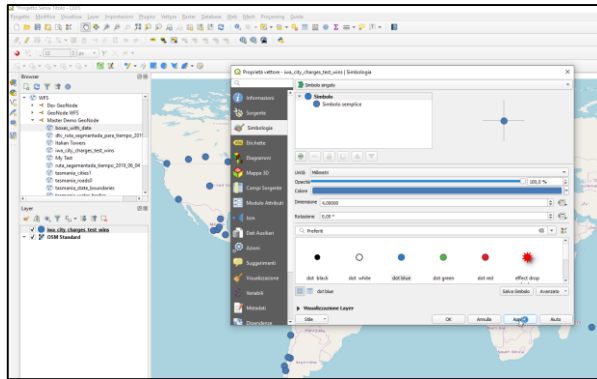
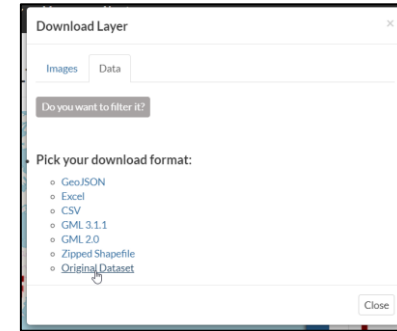
# SLD Export and Upload

- Direct download of available styles and original dataset
- Still needs work and improvements; for the moment supports well only simple styles

## Styles

The following styles are associated with this layer. Choose a style to view it in the preview map.

☒ (default style) [iwa\\_city\\_charges\\_test\\_wins](#)



UNESCO  
WB

GeoSolutions

2.8.2 - 2.10



# Metadata Improvements and Batch Update

**GeoNode** Data Maps About admin

Search

## Metadata for iwa\_city\_charges\_test\_wins

Completeness: 75%  
Check Schema mandatory fields

Edit Preview Settings

**Mandatory** Optional

1 Basic Metadata 2 Location and Licenses 3 Optional Metadata 4 Dataset Attributes

Thumbnail: iwa\_city\_charges\_test\_wins

Title: iwa\_city\_charges\_test\_wins

Abstract: No abstract provided

Features: iwa\_city\_charges\_test\_wins

Date type: Date

Publication: 2019-06-07 06:00

Category: Imagery Base Maps Earth Cover

Group: ---

Edit

Return to Layer Update Next >>

Select layer to change

Search

2019 June 6 June 7

Action: Metadata batch edit Go 14 of 14 selected

Delete selected layers

ID	TITLE [EN]
91	geonode.iwa_city_charges_test_wins
90	geonode.dtv_ruta_segmentada_para_tiempo_2019_03_27
87	geonode.ruta_segementada_tiempo_2019_06_04
86	geonode.catastro

### Batch Edit

Group: ---

Owner: ---

Category: Environment

- Biota
- Boundaries
- climatologyMeteorologyAtmosphere
- Climatology Meteorology Atmosphere
- Economy
- Elevation
- Environment**
- Farming
- Geoscientific Information

# Menu Management



Django administration

Home > Base > Menus > Test Menu

✓ The menu "Test Menu" was changed successfully. You may edit it again below.

Change menu

Title:



Placeholder:   

Order:



Change menu item

Title:

Menu:   

Order:



☒ Blank target

Url:



Add menu item

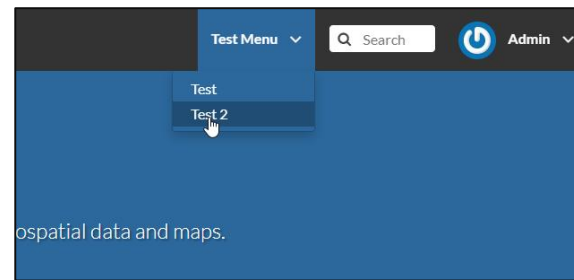
Title:

Menu:   

Order:

☒ Blank target

Url:



# Theme and Privacy Policy Management

The diagram illustrates the process of managing themes and privacy policies in GeoNode. It features three main components:

- GeoNode Themes Library administration:** A window showing the management interface for themes. It includes a table with columns for 'Partners' and 'Themes', each with '+ Add' and 'Change' buttons. Below the table, there are fields for 'Logo', 'Jumbotron background', 'Hide text in the jumbotron', 'Jumbotron title', and 'Jumbotron content'. A checkbox labeled 'Is enabled' is also present.
- Test GeoNode Instance:** A screenshot of a test instance of GeoNode. It shows a header with 'Data', 'Maps', and 'About' menus, a search bar, and a 'Get Started' button. The main content area displays 'Search for Data.' and 'Our Partners'.
- GeoSolutions:** A screenshot of the GeoSolutions theme. It features the GeoSolutions logo, a 'Data' menu, and a footer with 'Powered by GeoNode version 2.10rc5' and a language selector.

Arrows indicate the flow of data and management between these components. A curved arrow points from the 'Test GeoNode Instance' to the 'GeoNode Themes Library administration' window. A straight arrow points from the 'GeoNode Themes Library administration' window to the 'GeoSolutions' theme preview. A curved arrow points from the 'GeoSolutions' theme preview to the 'Test GeoNode Instance'.

**IGAD** **GeoSolutions** **2.8.2 - 2.10** **GeoNode**

# Social Account Login

Add social application

Provider: Facebook

Name:

Client id:   
App ID, or consumer key

Secret key:   
API secret, client secret, or consumer secret

Key:

Sites: 

example.com

+


  
Hold down "Control", or "Command" to select multiple items




**Account Connections**

You currently have no social network accounts connected to this account.

**Add a 3rd Party Account**


 Connect with LinkedIn


 Connect with Facebook



About Test

Sign in

 Sign in with LinkedIn

 Sign in with Facebook

☐ Remember Me

Sign in



# Data Upload Advanced Workflow

```
# Each uploaded Layer must be approved by an Admin before becoming visible
```

```
ADMIN_MODERATE_UPLOADS = ast.literal_eval(os.environ.get('ADMIN_MODERATE_UPLOADS'))
```

```
# option to enable/disable resource unpublishing for administrators
```

```
RESOURCE_PUBLISHING = ast.literal_eval(os.getenv('RESOURCE_PUBLISHING'))
```

```
# If this option is enabled, Resources belonging to a Group won't be
```

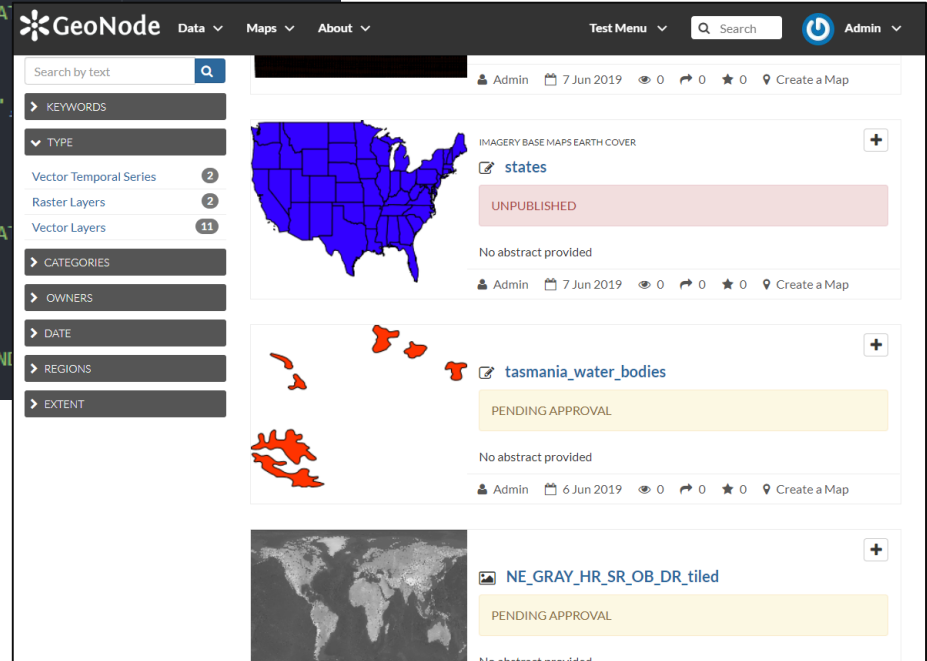
```
# visible by others
```

```
GROUP_PRIVATE_RESOURCES = ast.literal_eval(os.environ.get('GROUP_PRIVATE_RESOURCES'))
```

```
# If this option is enabled, Groups will become strictly Mandatory on
```

```
# Metadata Wizard
```

```
GROUP_MANDATORY_RESOURCES = ast.literal_eval(os.environ.get('GROUP_MANDATORY_RESOURCES'))
```



GeoNode Data Maps About Test Menu Search Admin

Search by text

KEYWORDS

TYPE

- Vector Temporal Series (2)
- Raster Layers (2)
- Vector Layers (11)

CATEGORIES

OWNERS

DATE

REGIONS

EXTENT

IMAGERY BASE MAPS EARTH COVER

states

UNPUBLISHED

No abstract provided

Admin 7 Jun 2019 0 0 0 Create a Map

tasmania\_water\_bodies

PENDING APPROVAL

No abstract provided

Admin 6 Jun 2019 0 0 0 Create a Map

NE\_GRAY\_HR\_SR\_OB\_DR\_tiled

PENDING APPROVAL

No abstract provided

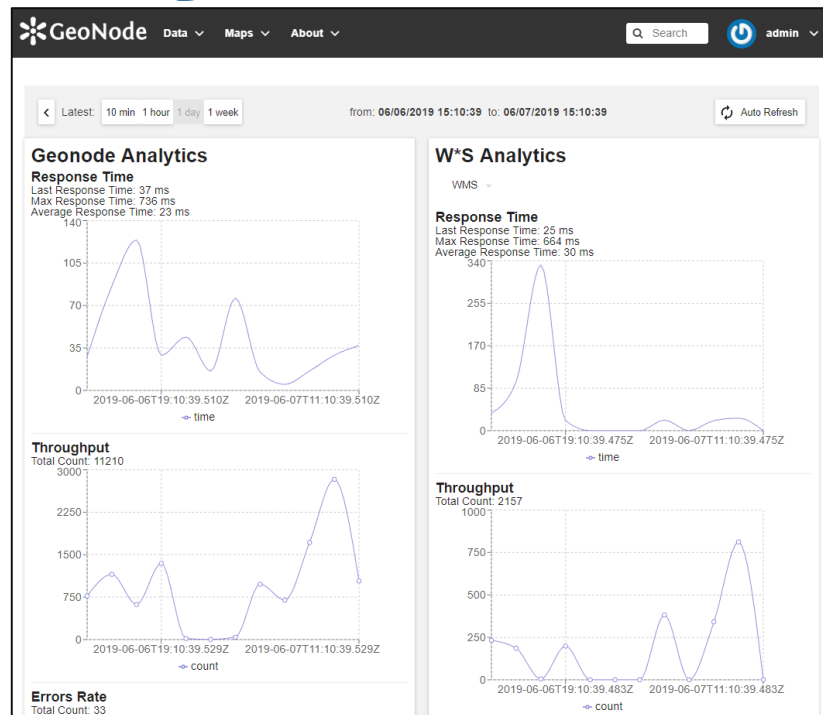
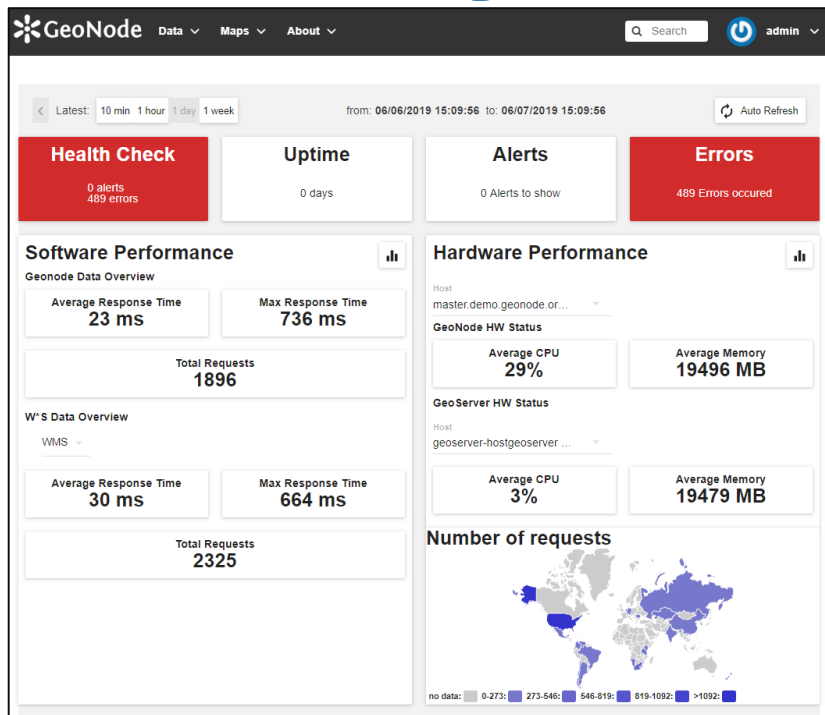
UNESCO  
GeoSolutions

GeoSolutions

2.8.2 - 2.10



# GeoNode Integrated Monitoring



WB

GeoSolutions

2.8.2 - 2.10



# GeoNode GIS-Client Hooksets

- GIS Clients (maps and layer details) can be plugged in as external libraries thanks to the **CLIENT HOOKSETS**

```
GEONODE_CLIENT_LAYER_PREVIEW_LIBRARY = os.getenv('GEONODE_CLIENT_LAYER_PREVIEW_L  

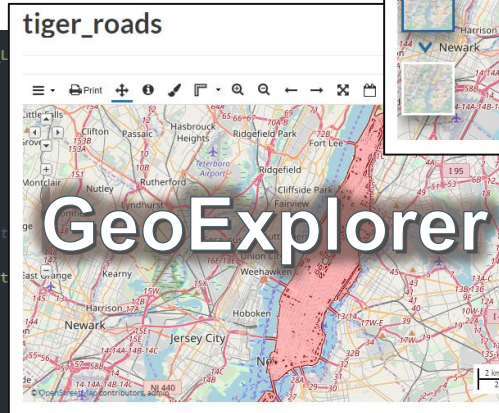
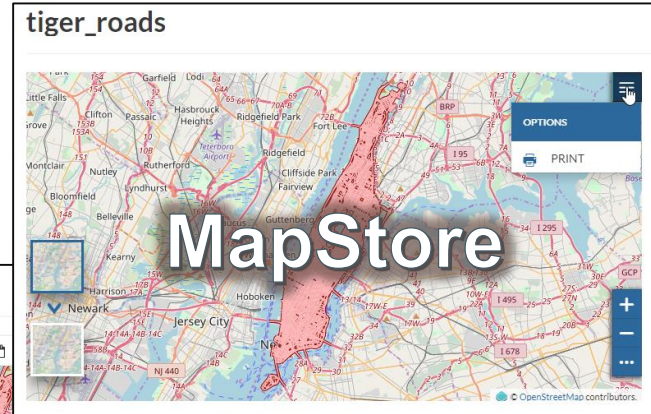
To enable the GeoExt based Client:
1. pip install django-geoexplorer==4.0.42
2. add 'geoexplorer' to INSTALLED_APPS
3. enable those:
  

# GEONODE_CLIENT_LAYER_PREVIEW_LIBRARY = 'geoext' # DEPRECATED use HOOKSET inst
if GEONODE_CLIENT_LAYER_PREVIEW_LIBRARY == 'geoext':
    GEONODE_CLIENT_HOOKSET = os.getenv('GEONODE_CLIENT_HOOKSET', 'geonode.client
  

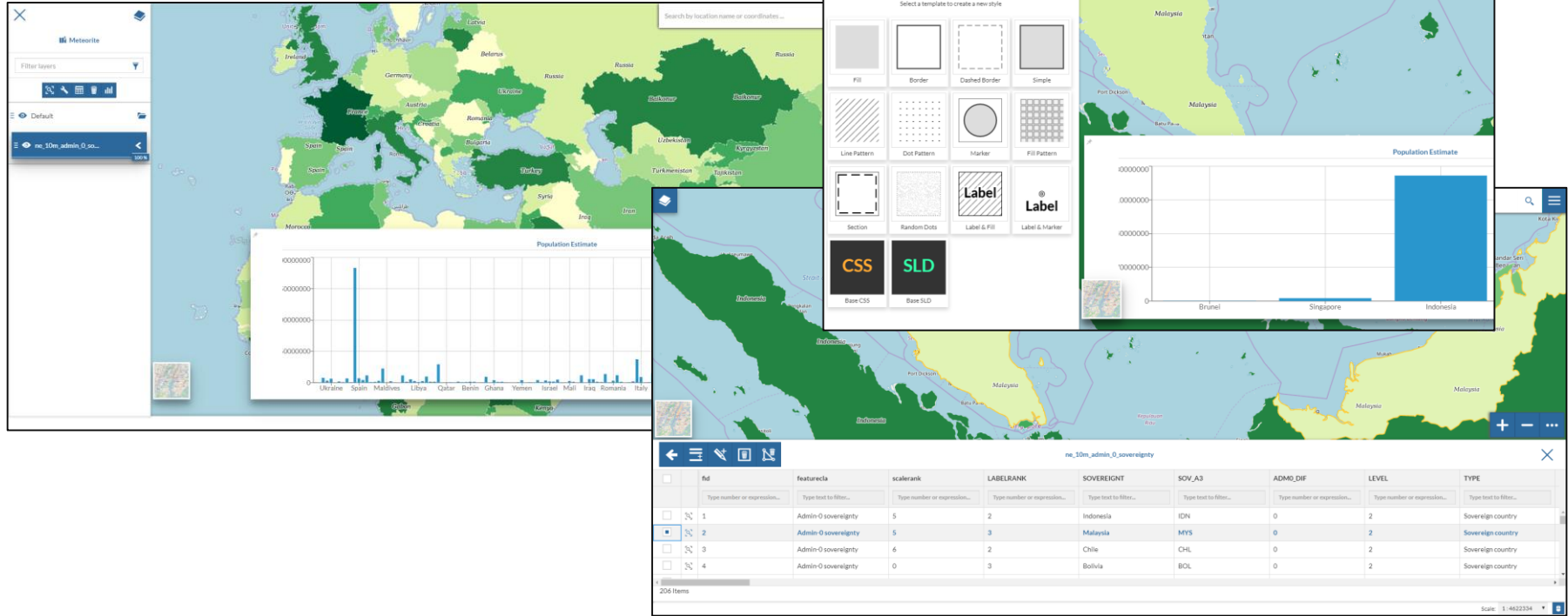
if 'geoexplorer' not in INSTALLED_APPS:
    INSTALLED_APPS += ('geoexplorer', )
  

# MAP_BASELAYERS += [
# [
```

- You can add your ones

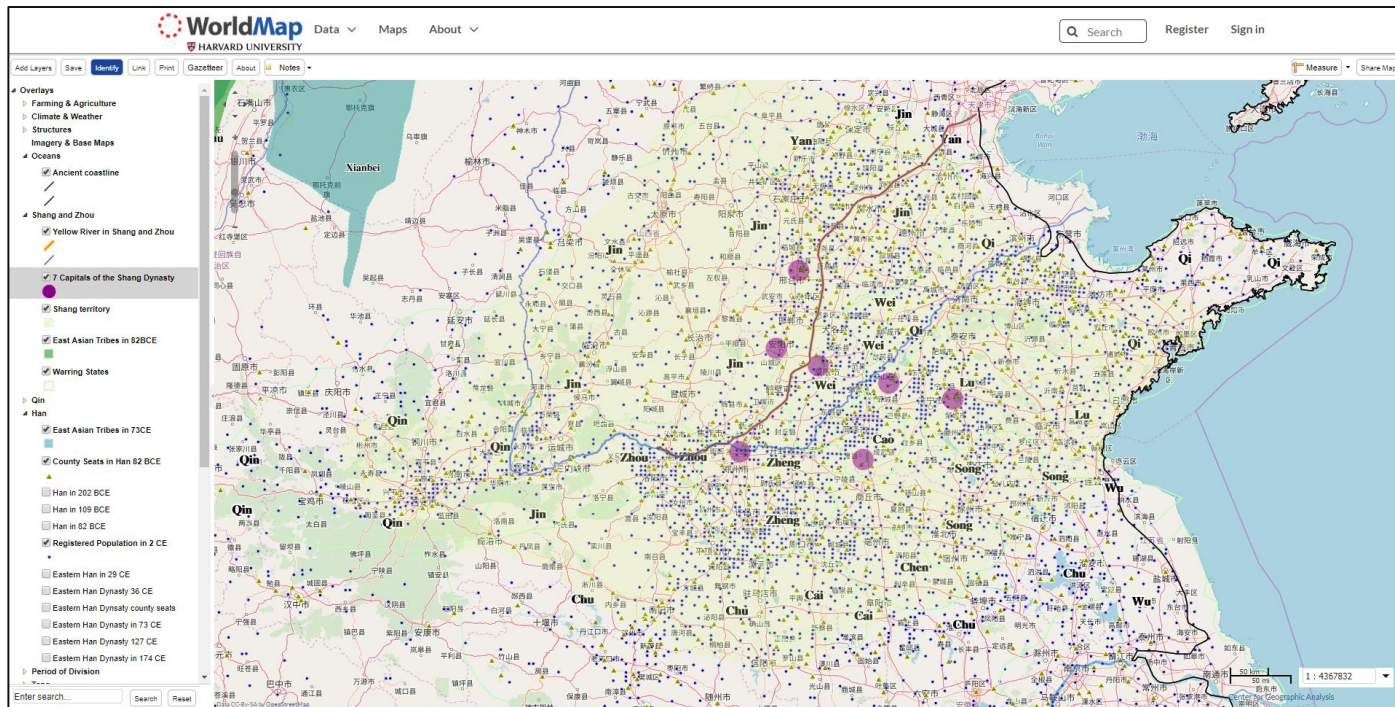


# MapStore2 Client Hookset





# Harvard WorldMap Client Hookset



HARVARD UNIVERSITY

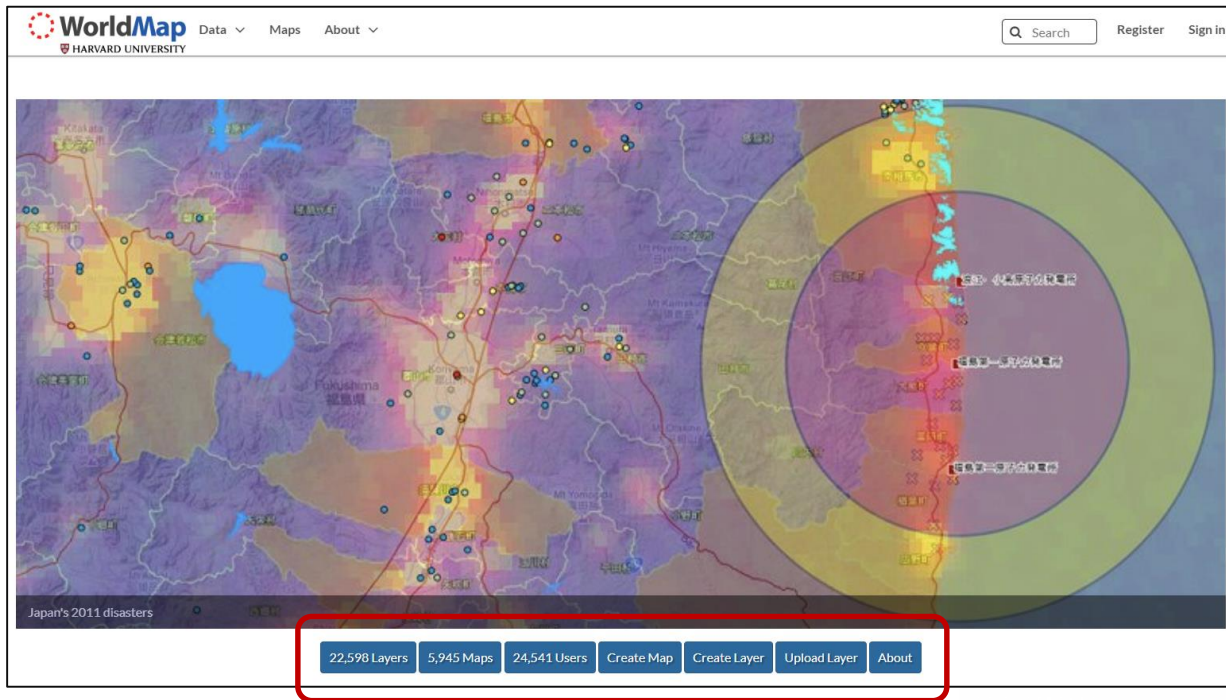
GeoSolutions

2.10



# GeoNode and GeoFence Performance Optimizations

- Performance improvements and hardening to support a huge number of resources and maps, 10k+ layers!
- The possibility to activate **DELAYED SECURITY** signals in order to allow GeoNode and GeoFence align asynchronously



# Docker Improvements / SPCgeonode Compose

- Docker Compose installation has been simplified a lot, both on GeoNode core and GeoNode-Project
- SPCgeonode is a setup for Geonode deployment at SPC. It makes it easy to deploy a production ready Geonode. The setup aims for simplicity over flexibility, so that it will only apply for typical small scale Geonode installations.
- The setup is also usable for Geonode development or customization.
- <https://github.com/GeoNode/geonode/tree/master/scripts/spcgeonode>

# Security and Hardening - MIDDLEWAREs

- GeoNode 2.10 is based on Django framework v.1.11. The framework offers a strong and battle-tested security mechanism inherited and extended by GeoNode's own security layer and integrations. The general security features of Django are well described in its own documents: <https://docs.djangoproject.com/en/1.11/topics/security>
- ✓ **LockDown Middleware** (GeoNode) a Middleware class which forces authentication for every non-authorized URL
- ✓ **SessionControl Middleware** (GeoNode) a Middleware class looking for Token expiration and session validity. Accordingly to the settings, it will either force the user to log in again or refresh/extend the token validity.
- ✓ **Cors Middleware** A Django App that adds CORS (Cross-Origin Resource Sharing) headers to responses. Although JSON-P is useful, it is strictly limited to GET requests. CORS builds on top of XmlHttpRequest to allow developers to make cross-domain requests, similar to same-domain requests. <http://www.html5rocks.com/en/tutorials/cors>
- ✓ **CsrfView Middleware** ref. <https://docs.djangoproject.com/en/2.2/ref/csrf>
- ✓ **XFrameOptions Middleware** ref. <https://docs.djangoproject.com/en/2.2/ref/clickjacking>
- ✓ **Security Middleware** ref. <https://django-secure.readthedocs.io/en/latest/middleware.html>
- ✓ **OAuth2Token Middleware** ref. [https://django-oauth-toolkit.readthedocs.io/en/latest/tutorial/tutorial\\_03.html](https://django-oauth-toolkit.readthedocs.io/en/latest/tutorial/tutorial_03.html)



# Security and Hardening – OWS Internal Proxy

- Fixed users dangerous privileges escalation; internally requests to the backend were always done as “ADMIN”
- GeoNode Proxied OWS Endpoints
- ✓ *The proxy automatically searches for the user OAuth2 Token and injects the correct BEARER AUTH Headers transparently*
- ✓ ***/gs/ows** Accepts BASIC AUTH headers but still allows anonymous users to fetch OWS documents*
- ✓ ***/gs/w\*s** Forces the users to perform BASIC AUTH first*

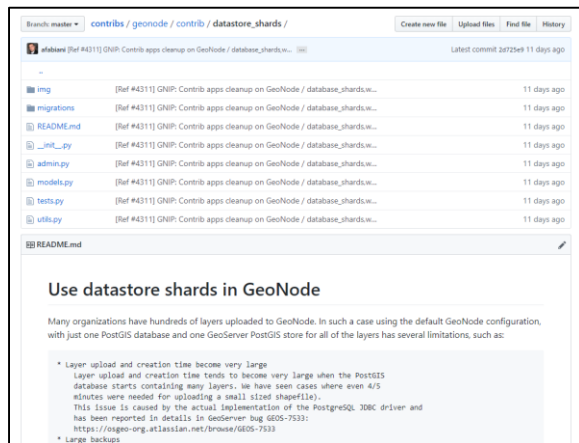
# Fixes and Improvements

- Well known 2.6 issues:
- ✓ *Thumbnails generation*
- ✓ *Wrong BBOX coordinates on Download Links*
- ✓ *Wrong BBOX coordinates for projections different from WGS84 or EPSG:3857*
- ✓ *Glitches on Map Zoom levels*
- ✓ *Errors on Metadata Editor, especially after updating an existing resource*
- ✓ *Upload Encoding errors on input data*
- ✓ *Misbehavior on GeoServer data-store creation*
- ✓ *Filtering errors on Vectorial Data Download*
- ✓ *and many more...*

# Contrib Apps Promotion

- Most of the “contrib apps” have been ported to core
- “contribs” have now their own repository with dedicated docs

<https://github.com/GeoNode/contribs>



Branch: master | contribs / geonode / contrib / datastore\_shards /

Create new file | Upload files | Find file | History

stefan [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago

Latest commit: 2d725e9 11 days ago

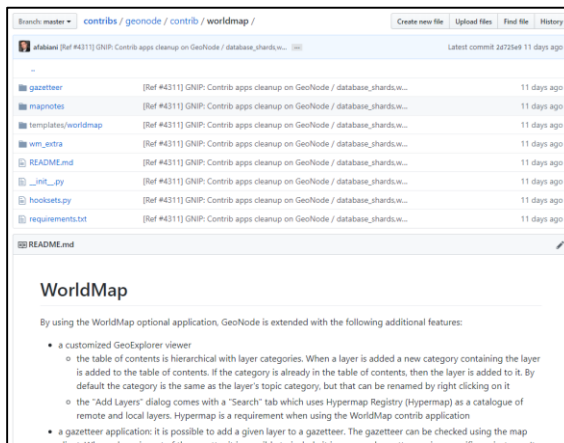
- img [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- migrations [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- README.md [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- \_init\_.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- admin.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- models.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- tests.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- utils.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago

[[[ README.md

### Use datastore shards in GeoNode

Many organizations have hundreds of layers uploaded to GeoNode. In such a case using the default GeoNode configuration, with just one PostGIS database and one GeoServer PostGIS store for all of the layers has several limitations, such as:

- Layer upload and creation time become very large
- Layer upload starts containing many layers. We have seen cases where even 4/5 minutes were needed for uploading a small sized shapefile.
- This issue is caused by the actual implementation of the Postgres9.3 JDBC driver and has been reported in details in GeoServer bug 6005-7533: <https://osgeo-org.atlassian.net/browse/GEOS-7533>
- Large backups



Branch: master | contribs / geonode / contrib / worldmap /

Create new file | Upload files | Find file | History

stefan [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago

Latest commit: 2d725e9 11 days ago

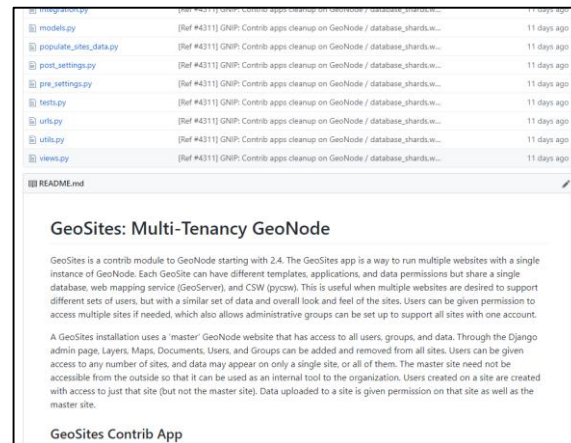
- gazetteer [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- imagetiles [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- templates/worldmap [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- wm\_extra [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- README.md [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- \_init\_.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- hookssets.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- requirements.txt [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago

[[[ README.md

### WorldMap

By using the WorldMap optional application, GeoNode is extended with the following additional features:

- a customized GeoExplorer viewer
  - the table of contents is hierarchical with layer categories. When a layer is added a new category containing the layer is added to the table of contents. If the category is already in the table of contents, then the layer is added to it. By default the category is the same as the layer's topic category, but that can be renamed by right clicking on it
  - the "Add Layers" dialog comes with a "Search" tab which uses Hypermap Registry (Hypermap) as a catalogue of remote and local layers. Hypermap is a requirement when using the WorldMap contrib application
- a gazetteer application: it is possible to add a given layer to a gazetteer. The gazetteer can be checked using the map



Branch: master | contribs / geonode / contrib / geosites /

Create new file | Upload files | Find file | History

stefan [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago

Latest commit: 2d725e9 11 days ago

- models.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- populate\_sites\_data.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- post\_settings.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- pre\_settings.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- tests.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- urls.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- utils.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago
- views.py [Ref #4311] GNP: Contrib apps cleanup on GeoNode / database\_shards... 11 days ago

[[[ README.md

### GeoSites: Multi-Tenancy GeoNode

GeoSites is a contrib module to GeoNode starting with 2.4. The GeoSites app is a way to run multiple websites with a single instance of GeoNode. Each GeoSite can have different templates, applications, and data permissions but share a single database, web mapping service (GeoServer), and CSW (pycsw). This is useful when multiple websites are desired to support different sets of users, but with a similar set of data and overall look and feel of the sites. Users can be given permission to access multiple sites if needed, which also allows administrative groups can be set up to support all sites with one account.

A GeoSites installation uses a "master" GeoNode website that has access to all users, groups, and data. Through the Django admin page, Layers, Maps, Documents, Users, and Groups can be added and removed from all sites. Users can be given access to any number of sites, and data may appear on only a single site, or all of them. The master site need not be accessible from the outside so that it can be used as an internal tool to the organization. Users created on a site are created with access to just that site (but not the master site). Data uploaded to a site is given permission on that site as well as the master site.

GeoSites Contrib App

Community

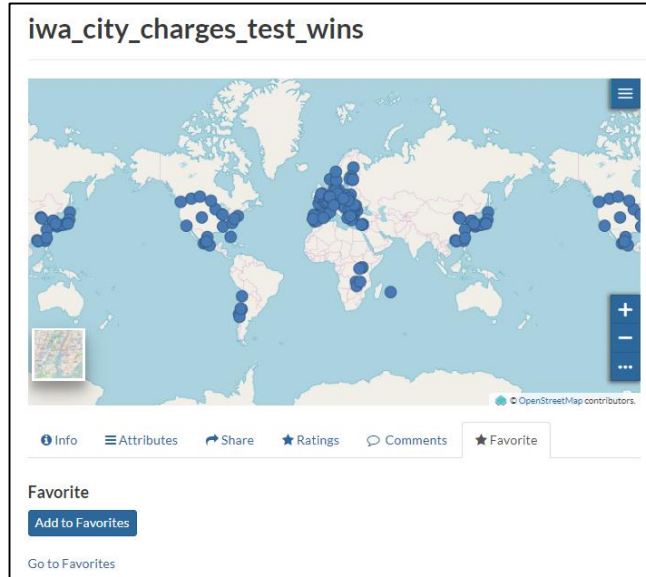
Community

2.10

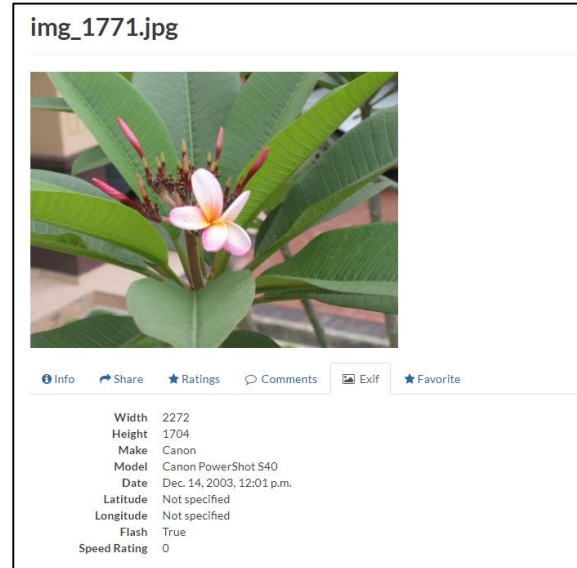


# Contrib Apps Promotion

## ✓ Favorites



## ✓ EXIF support for Document Images



# Contrib Apps Promotion

- ✓ *Create Empty Layer*

### Create an empty layer

Layer name

TEST

Layer title

Test Empty Layer

Geometry type

Polygons

Add Attribute

FT\_NAME

String

Remove

FT\_NUM

Float

Remove

Create

- ✓ *WMS GetCapabilities for single Layers*

Info

Attributes

Share

Ratings

Comments

Favorite

Title

Test Empty Layer

License

Not Specified

Abstract

No abstract provided

Publication Date

June 7, 2019, 9:44 a.m.

Type

Vector Data

Keywords

features, test\_1

Regions

Global

Owner

admin

More info

-

Layer WMS GetCapabilities document

# Contrib Apps Promotion

## ✓ *Metadata XSL Renderer*

Metadata for iwa\_city\_charges\_test\_wins

Completeness  
✗ Check Schema mandatory fields  
75 %

Edit Preview Settings

GeoNode

**iwa\_city\_charges\_test\_wins**

Abstract: No abstract provided

Hierarchy level	dataset
Resource Identifier	
Alternative Title	
Resource Status	completed

**WHAT**

Resource Purpose	
Spatial Representation Type	
Topic Category	Environment
Keywords	Anomalia Data features iwa_city_charges_test_wins theme Global place

**WHERE**

**GEOGRAPHIC LOCATION**

North Bound	South Bound	West Bound	East Bound
-------------	-------------	------------	------------

## ✓ *Original Dataset Download Link*

Download Layer

Images Data

Do you want to filter it?

Pick your download format:

- GeoJSON
- Excel
- CSV
- GML 3.1.1
- GML 2.0
- Ziped Shapefile
- Original Dataset

Close

Community

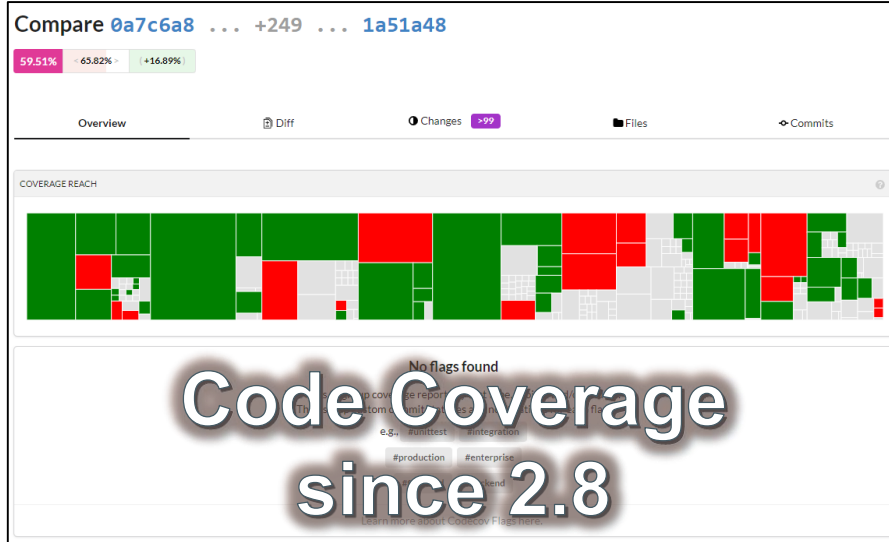
Community

2.10



# Test Frameworks and Code-coverage

- Test framework on Travis has been completely refactored
- Thanks to NINA we have now also support for “Selenium” tests



Build jobs View config

✓ # 7534.1	Python: 2.7
✓ # 7534.2	Python: 2.7
✓ # 7534.3	Python: 2.7
✓ # 7534.4	Python: 2.7

2.8.x

Continuous Builds

Build jobs View config

✓ # 7621.1	GeoServer-backend Core Modules Smoke Tests
✓ # 7621.2	GeoServer-backend Contrib Apps Smoke Tests
✓ # 7621.3	GeoServer-backend Integration Tests
✓ # 7621.4	GeoServer-backend Integration CSW Tests
✓ # 7621.5	GeoServer-backend Integration BDD Tests
✓ # 7621.6	QGIS Server-backend Core Modules Smoke Tests
✓ # 7621.7	QGIS Server-backend Contrib Apps Smoke Tests
✓ # 7621.8	QGIS Server-backend Integration Tests
✓ # 7621.9	Selenium Integration Tests

2.10.x

Community  
NINA

NINA  
GeoSolutions

2.10



# Internationalization and Documentation

- Internationalization has been improved, we have almost 90% coverage for 5 main languages
- Completely revised and updated Documentation, preview at

<http://docs.geonode.org/en/new-docs/>

- Help is very welcome here from the community. To participate jump into the following threads

*Docs: Rework TOC*     <https://github.com/GeoNode/geonode/issues/4394>

*Docs: Replace Transifex with manual build Instructions*

<https://github.com/GeoNode/geonode/issues/4387>



Help us help you



# User Lists Participation

- Answering users questions relies on a low number of people
- We lack “testers”; this kind of project would need also a lot of manual testing for all its functionalities on a regular basis
- Developers are very few and Pull Requests often do not respect the contribution policies.

In particular:

- ✓ *There's no GitHub issue describing the problem linked to the Pull Request*
- ✓ *GitHub issues are plain requests often without a good description of the use case and how to reproduce it*
- ✓ *Lack of test cases and documentation*
- ✓ *History of commits is usually messed up*

# Steps to get in touch with developers

1. If you need for clarification first of all try to describe the issue as well as possible through the official mailing lists; **IMPORTANT:** always specify
  - ✓ *Which versions of GeoNode and GeoServer you are using*
  - ✓ *Which Operative System and hardware you are using*
  - ✓ *How you installed the framework*
2. If you need to get in touch directly with developers, consider using the official “gitter” chat <https://gitter.im/GeoNode/general>
3. If the issue has been confirmed and there’s no easy or immediate resolution, open a ticket on GitHub <https://github.com/GeoNode/geonode/issues> with steps on how to reproduce the problem and labels

# In case you stumble into a vulnerability: Responsible Disclosure

- Keep exploit details out of issue report.
- Mark the issue as a vulnerability.
- Be prepared to work with Project Steering Committee (PSC) on a solution.
- Keep in mind PSC members are volunteers and an extensive fix may require fundraising / resources.

If you are not in position to communicate in public please consider commercial support, contacting a PSC member, or reaching us via the Open Source Geospatial Foundation at [info@osgeo.org](mailto:info@osgeo.org)



Thanks

