



Mapbender3 Workshop

Astrid Emde

FOSS4G-Europe 2017
Paris Marne-le-Vallé

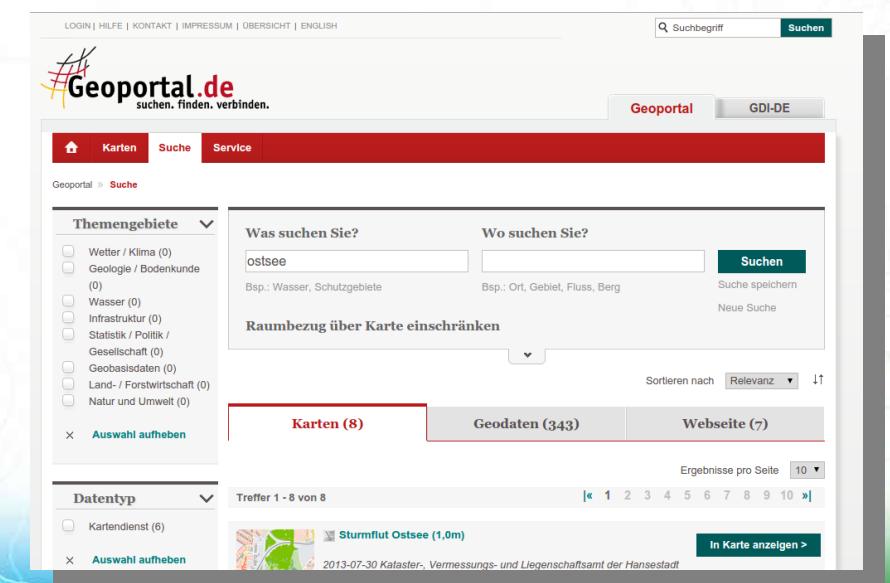
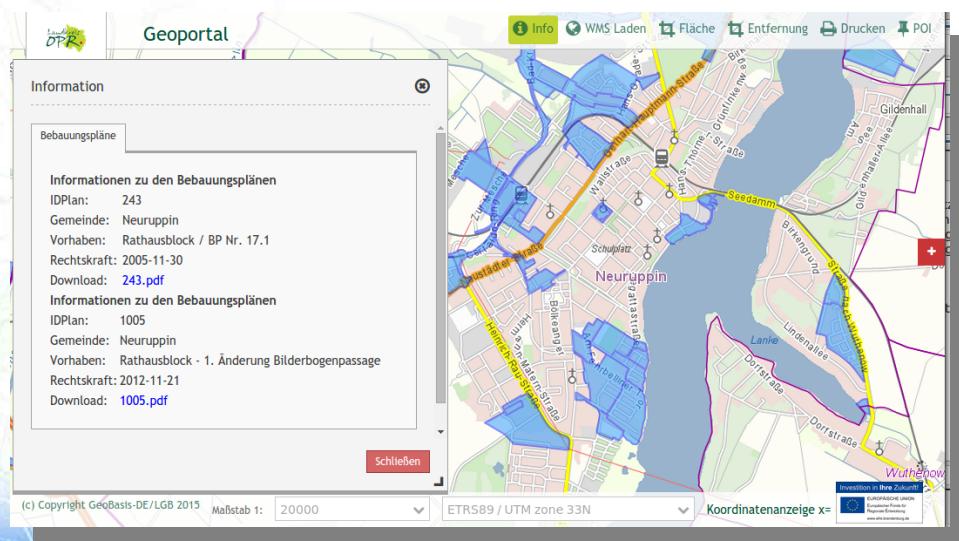
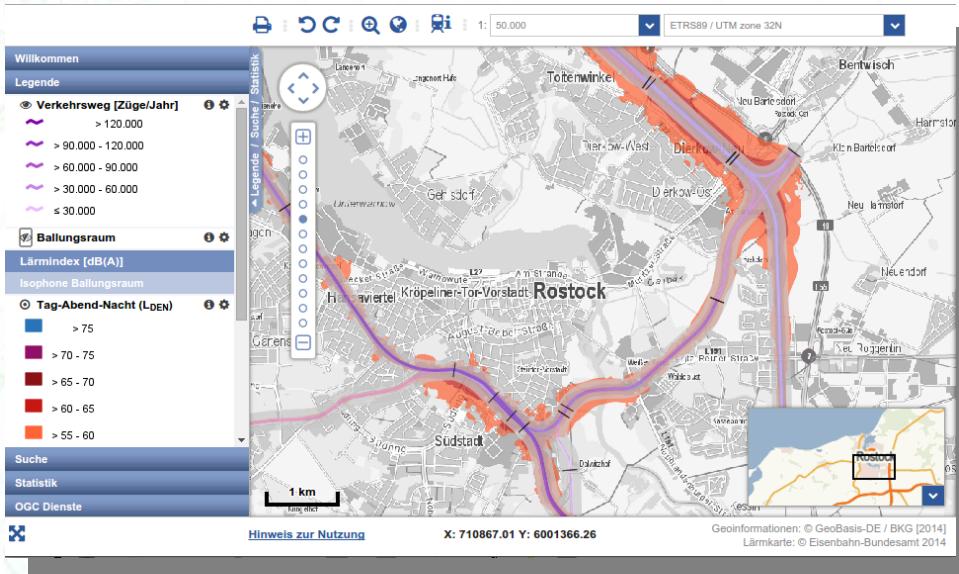


Mapbender Developer Team

- Astrid Emde
- Mapbende Developer Team since 2004
- Mapbender PSC (Project Steering Committee)
- Project management and development, Trainings for MapServer, PostgreSQL/PostGIS, Mapbender, GeoServer
- Testing, Documentation, Release
- WhereGroup Bonn



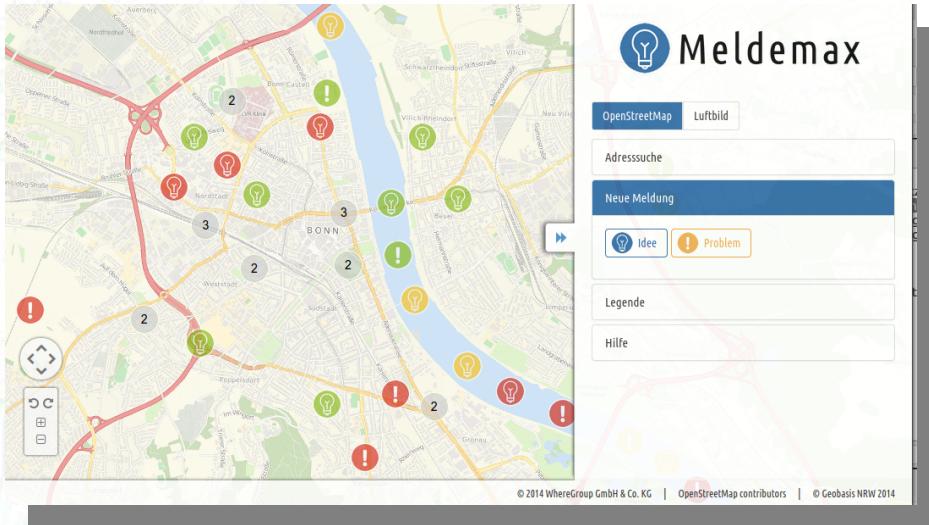
WhereGroup



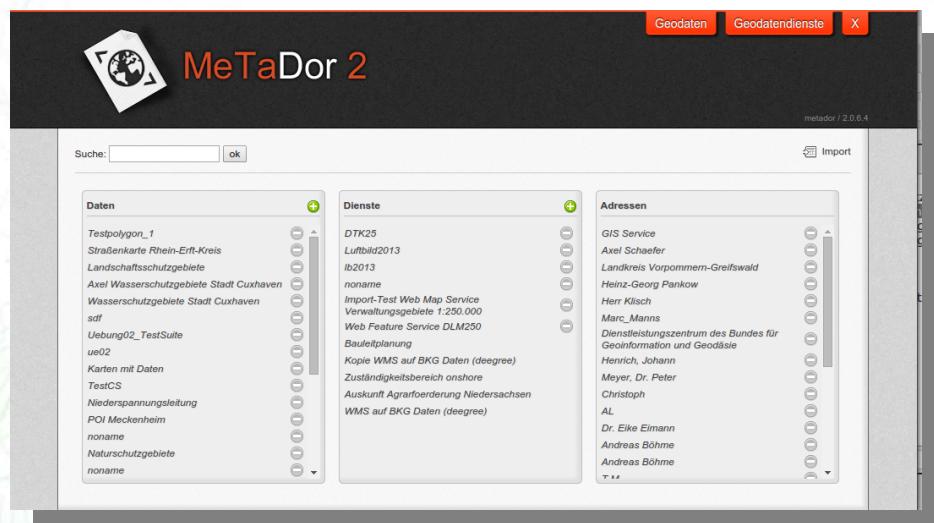


WhereGroup

Meldemax
Platform for
ideas & problems
in your town



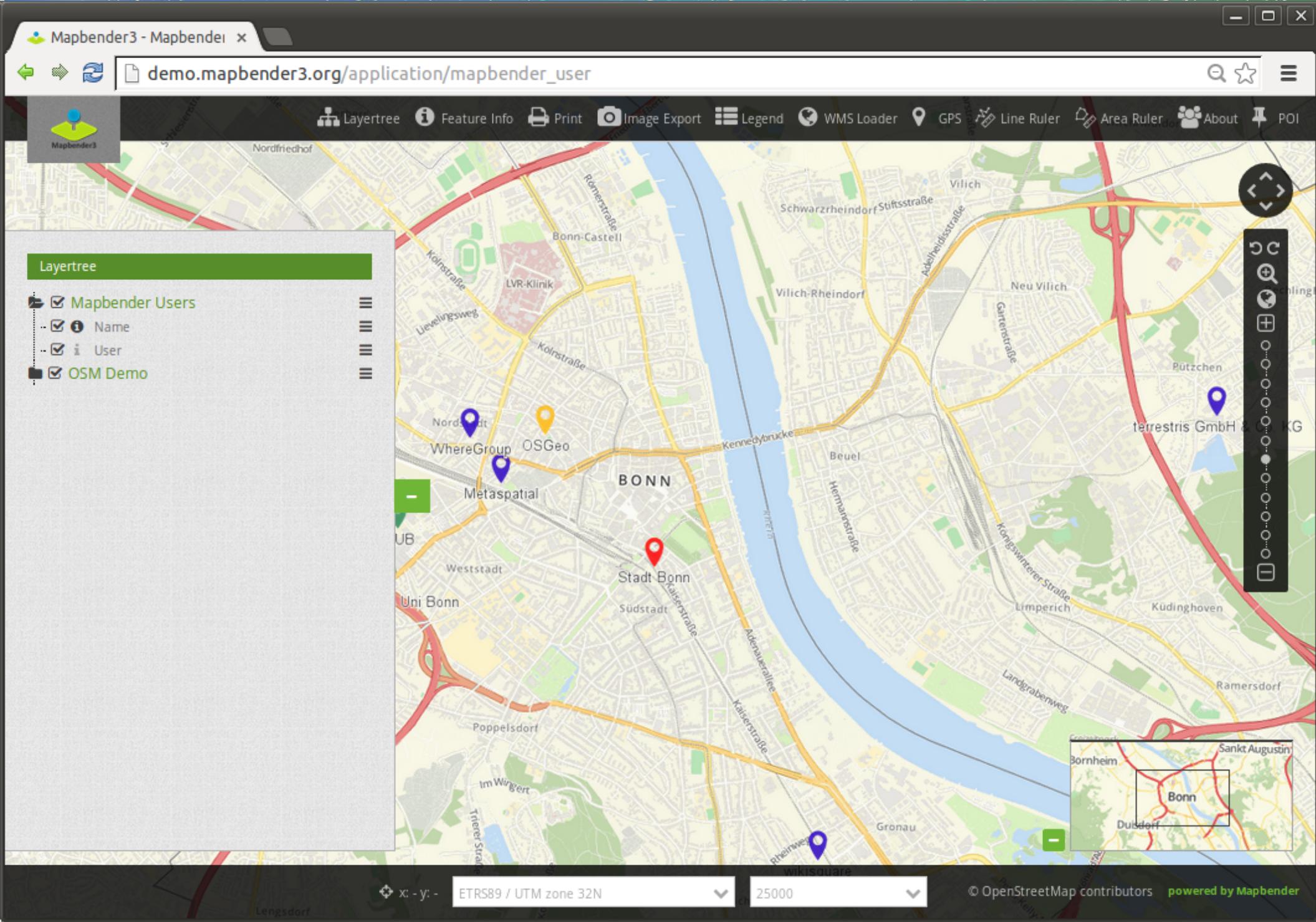
The screenshot shows a map of Bonn, Germany, with numerous yellow lightbulb icons scattered across the city area, representing user-submitted ideas and problems. The map includes street names like Bonner Straße, Rheinufer, and Kennedyallee. A legend on the right side of the interface defines the icons: a blue lightbulb for 'Idee' (idea) and a red lightbulb with an exclamation mark for 'Problem' (problem). The interface has tabs for 'OpenStreetMap' and 'Luftbild' (aerial view), and sections for 'Adresssuche' (address search), 'Neue Meldung' (new report), and 'Legende' (legend).



The screenshot displays the MeTaDor 2 metadata editor interface. It features three main panels: 'Daten' (Data), 'Dienste' (Services), and 'Adressen' (Addresses). The 'Daten' panel lists various spatial datasets such as 'Testpolygon_1', 'Straßenkarte Rhein-Erft-Kreis', and 'Landschaftsschutzgebiete'. The 'Dienste' panel lists services like 'DTK25', 'Luftbild2013', and 'Import-Test Web Map Service'. The 'Adressen' panel lists addresses and contacts, including 'GIS Service', 'Axel Schaefer', and 'Landkreis Vorpommern-Greifswald'. A search bar at the top left and an 'Import' button at the top right are also visible.

MetaDor2
Metadateneditor

**Consulting, Training
& more**





Workshop

- What does Mapbender do?
- Architecture and Installation
- Register Services
- Create your own application
- User and group security management
- Design adjustments, template printing
- Search module and digitizer



What does Mapbender do?



WebGIS Client Suite with administration web interface



Create a geoportal without writing a single line of code!



Create and maintain an OWS repository



Distribute configured services among applications



Grant users and groups access to
applications and services



Which components does Mapbender3 use?

- Symfony2 as PHP framework
 - Doctrine, Twig, Monolog, Bootstrap...
 - Bundles
- OpenLayers2
- MapQuery
- jQuery
- SQLite, PostgreSQL, MySQL, Oracle database



Systemrequirements

- >= PHP 5.5.5 (php5)
- PHP CLI interpreter (php5-cli)
- PHP SQLite extension (php5-sqlite)
- PHP PostgreSQL extension (php5-pgsql)
- PHP cURL extension (php5-curl)
- PHP Internationalization-extension (php5-intl)
- PHP GD (php5-gd) (Print)
- PHP FileInfo (Print)
- PHP Zip
- APACHE mod_rewrite
- OpenSSL
- See requirements

GitHub, Inc. [US] https://github.com/mapbender



GitHub

Search GitHub

Explore Features Enterprise Blog

Sign up

Sign in



Mapbender Development Team

<http://mapbender3.org>mapbender_dev@lists.osgeo.org

Filters ▾

Find a repository...

mapbender-gpsposition

Updated 6 hours ago

JavaScript ★ 0 ⚡ 0

Mapbender3 Code in Git

mapbender-starter

Mapbender3 starter project

Updated 7 hours ago

PHP ★ 12 ⚡ 4

mapbender

The PHP web mapping framework

Updated 7 hours ago

PHP ★ 17 ⚡ 10

mapbender-activityindicator

Updated 7 hours ago

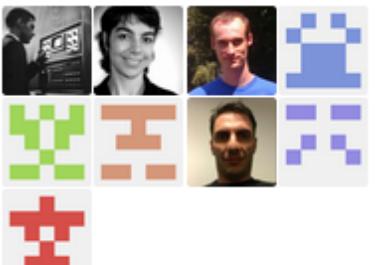
JavaScript ★ 0 ⚡ 0

mapbender-ruler

Updated 9 hours ago

JavaScript ★ 0 ⚡ 0

People





Installation

- Documentation of the Installation
- Workshop Installation `install_mapbender3.sh` of OSGeo-Live
- Download <http://mapbender3.org/en/download>
- Or use the code from GitHub
<https://github.com/mapbender/mapbender-starter>



Start Mapbender3

- **Symfony2 test configuration**

<http://localhost/mapbender3/config.php>

- **Developer mode**

http://localhost/mapbender3/app_dev.php

- **Productive mode**

<http://localhost/mapbender3/app.php>



Symfony Configuration - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Symfony Configuration 

localhost/mapbender3/config.php   

 Welcome!

Welcome to your new Symfony project.

This script will guide you through the basic configuration of your project. You can also do the same by editing the '`app/config/parameters.yml`' file directly.

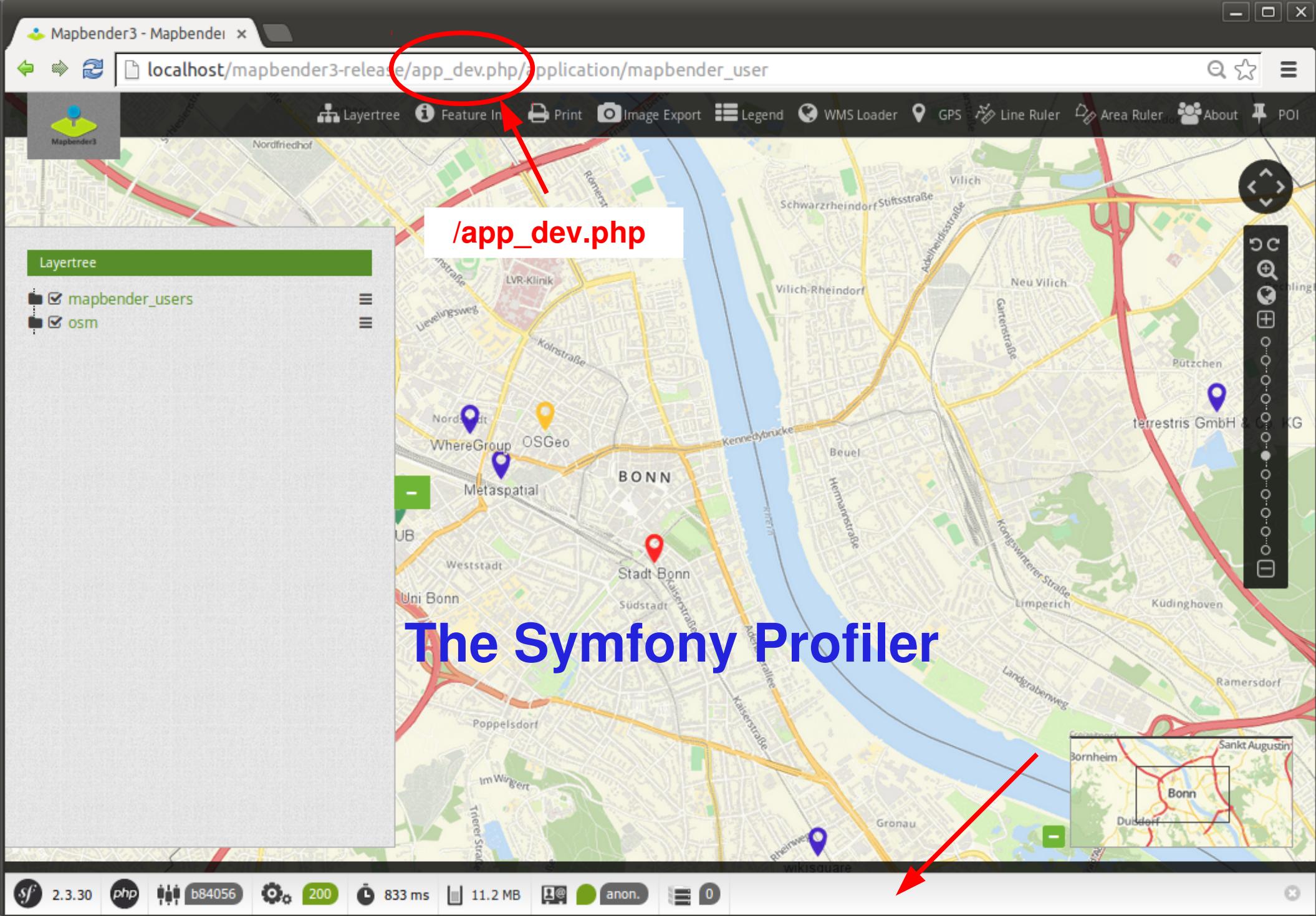
MAJOR PROBLEMS

Major problems have been detected and **must** be fixed before continuing:

1. Set the "`date.timezone`" setting in `php.ini*` (like `Europe/Paris`).

* Changes to the `php.ini` file must be done in "`/etc/php5/apache2/php.ini`".

[Re-check configuration >](#)





CONFIG

[View last 10](#) Profile for: GET http://localhost/mapbender3-release/app_dev.php/application/mapbender_user by 127.0.0.1 at Thu, 09 Jul 2015
23:37:10 +0200

REQUEST

EXCEPTION

EVENTS

LOGS

TIMELINE

ROUTING

SECURITY

E-MAILS 0

DOCTRINE 0 0 MS

MINIMIZE

Request GET Parameters

No GET parameters

Request POST Parameters

No POST parameters

Request Attributes

Key	Value
_controller	"Mapbender\\CoreBundle\\Controller\\ApplicationController::applicationAction"
_format	"html"
_route	"mapbender_core_application_application"
_route_params	{"_format": "html", "slug": "mapbender_user"}
_template	"Object(Symfony\\Bundle\\FrameworkBundle\\Templating\\TemplateReference)"
_template_default_vars	"Array(0 => slug)"
_template_streamable	"false"
template_vars	"Array()"



Find Mapbender3 on OSGeo-Live?

- ALIAS mapbender3 refers to:
`/var/www/html/mapbender3/web/`
- `app_dev.php` → `mapbender3/web/app_dev.php`
- Mapbender:
`mapbender3/mapbender/src/Mapbender/CoreBundle`



YAML

- Symfony configuration in YAML
- Mapbender3 application can be defined in YAML
 - /app/config/mapbender.yml
 - Define your application and services
- Mapbender3 configure database, language, mailer & more
 - parameters.yml
 - config.yml



Mapbender3 database

- PostgreSQL, Sqlite, ORACLE, MySQL, MS SQL
- Tables for WMS, User, Group, Layers etc.
- Doctrine integrated in Symfony provides database abstraction layer



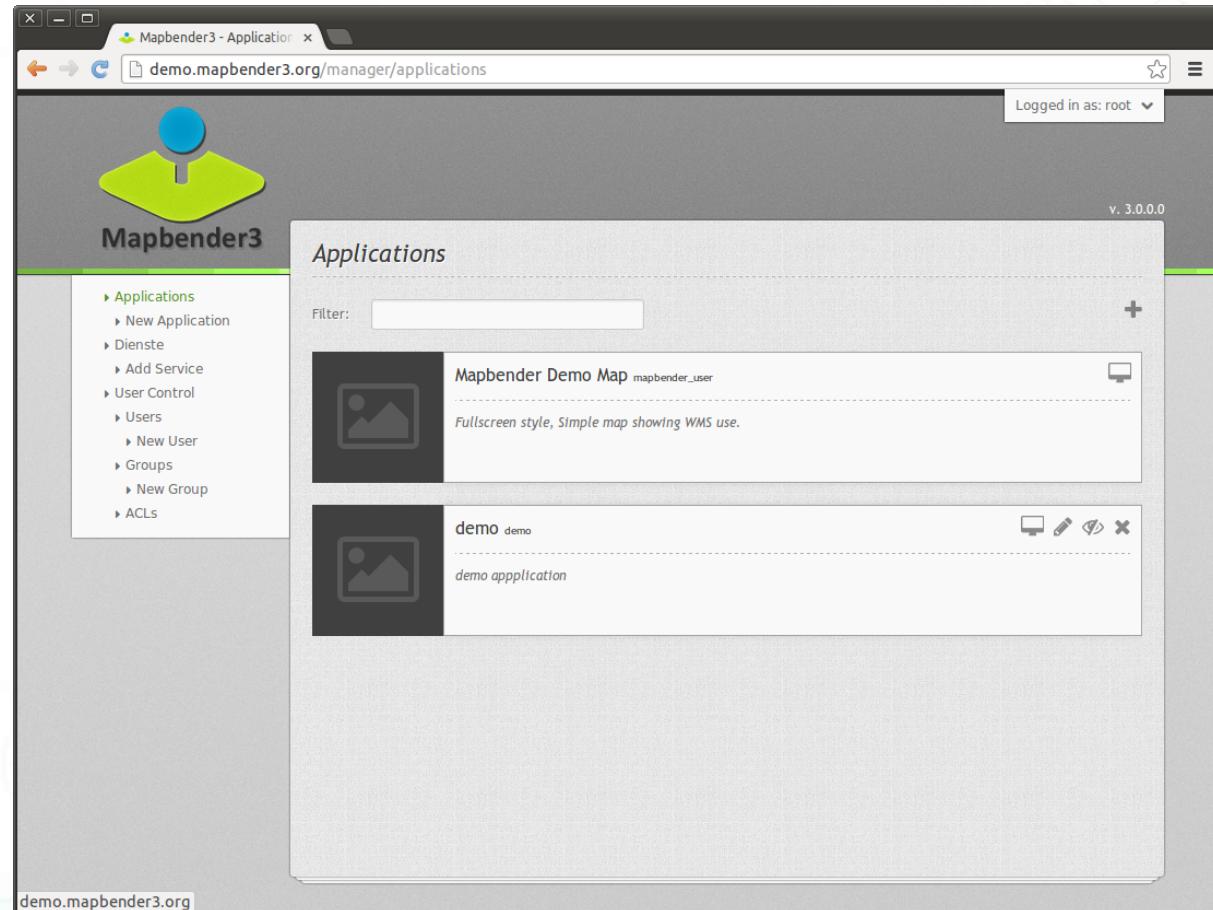
Templating

- **Template** → Reference in mapbender.yml:
 - Mapbender\CoreBundle\Template\Fullscreen
- **Css-File**
FOM/CoreBundle/Resources/public/css/frontend/
 - mapbender3_theme.css → Colour, Icons, Fonts
 - fullscreen.scss
- **Twig Template**
Mapbender/CoreBundle/Resources/views/fullscreen.html.twig



Application Overview

- Application overview
- Call sets Session to Anonymous User
- View title, description, screenshot
- Start Application



The screenshot shows a web browser window titled "Mapbender3 - Application" with the URL "demo.mapbender3.org/manager/applications". The page displays a sidebar menu with items like "Applications", "New Application", "Dienste", "Add Service", "User Control", "Users", "New User", "Groups", "New Group", and "ACLs". The main content area is titled "Applications" and lists two entries:

- Mapbender Demo Map** (mapbender_user)
Fullscreen style, Simple map showing WMS use.
- demo demo**
demo application



Login

- root user is created on installation
- You can provide Register and Forgot password functionality

Login

Username:

Password:

[▶ Register](#) [▶ Forgot password?](#)



Mapbender3

[Download](#)[Home](#) [Was ist Mapbender3?](#) [Los geht's](#) [Dokumentation](#) [Community](#) [Galerie](#)[...](#)

Willkommen auf mapbender3.org

Willkommen auf der Mapbender3-Seite

Mapbender ist ein Content Management System für Kartenanwendungen und Geodatendienste. Die Software ist in PHP und JavaScript implementiert. Mapbender wird mit vorkonfigurierten Anwendungen zur Anzeige, Navigation und Abfrage von Karten ausgeliefert. Alle Anwendungen können über die Weboberfläche den eigenen Bedürfnissen angepasst oder komplett neu implementiert werden.

Mapbender3 ist der Nachfolger der erfolgreichen Mapbender Version 2 und basiert auf aktuellen Technologien wie dem Web Application Framework Symfony2, JQuery und OpenLayers.

[Weiterlesen](#)[Open HUB](#)

\$33.8M Cost

Folgen Sie uns auf Twitter:

[@Mapbender folgen](#)



Table Of Contents

Welcome to Mapbender3's documentation!

▪ Indices and tables

Previous topic

Welcome to the Mapbender3 documentation

Next topic

The Book

This Page

Show Source

Quick search

Go

Enter search terms or a module, class

Welcome to Mapbender3's documentation!

Contents:

- [The Book](#)
 - [Installation](#)
 - [Git-based installation](#)
 - [Using the quick_install.py script](#)
 - [Components](#)
 - [Directory structure in Mapbender3](#)
 - [Concepts](#)
 - [Configuring the database](#)
 - [Translation in Mapbender3](#)
 - [How to create your own Template?](#)
 - [How to change the style of your application with the css-editor?](#)
 - [Mapbender3 Quickstart](#)
 - [Mapbender templates](#)
 - [Glossary](#)
 - [Version history](#)
- [Bundle Documentation](#)
 - [MapbenderCoreBundle](#)
 - [MapbenderWMSBundle](#)
 - [MapbenderWMCBundle](#)
 - [FOMUserBundle - Users and Security](#)
 - [FOMManagerBundle -Using the FOM Manager](#)
 - [OwsProxy3CoreBundle](#)
 - [How to create a Bundle?](#)
- [The Developer's Book](#)
 - [Introduction](#)



Hands on



Hands on – Part I

- Load WMS
- Create your own Application
- Populate application with Services
- Get elements for your application
- Create user and groups
- Assign application to user and groups
- Assign element access to user and groups



Hands on – Part II

- Print
- Define an individual Design
- Create your own bundle
- Setup a Search module
- Setup a Digitizer module



Mapbender3 Quickstart

- <http://doc.mapbender3.org/en/book/quickstart.html>

- element documentation
- <http://doc.mapbender3.org/en/bundles/Mapbender/CoreBundle/index.html>

Load WMS Europe & France

- <http://osm-demo.wheringroup.com/service?REQUEST=GetCapabilities&Service=WMS&Version=1.3.0>
- http://wms.wheringroup.com/cgi-bin/germany_workshop.xml?VERSION=1.1.1&REQUEST=GetCapabilities&SERVICE=WMS

France

- <http://geoservices.brgm.fr/geologie?SERVICE=WMS&VERSION=1.1.1&REQUEST=GetCapabilities>
- <http://geoservices.brgm.fr/risques?SERVICE=WMS&VERSION=1.3.0&REQUEST=GetCapabilities>
- <http://georisques.gouv.fr/services?&SERVICE=WMS&VERSION=1.3.0&REQUEST=GetCapabilities>



GEOportal.NRW

- <https://www.geoportal.nrw.de/application-geokatalog/start/index.php>
- http://www.wms.nrw.de/geobasis/wms_nw_dtk?SERVICE=WMS&VERSION=1.3.0&Request=getCapabilities
- http://www.wms.nrw.de/geobasis/wms_nw_alkis_gelb?REQUEST=GetCapabilities&Service=WMS&Version=1.3.0
- http://www.wms.nrw.de/geobasis/wms_nw_dop40??SERVICE=WMS&VERSION=1.3.0&Request=getCapabilities

Load WMS



- GDI-DE
- Search earthquake and geology
- [http://www.geoportal.rlp.de/mapbender/php/wms.php?
inspire=1&layer_id=26216&REQUEST=GetCapabilities&
SERVICE=WMS](http://www.geoportal.rlp.de/mapbender/php/wms.php?inspire=1&layer_id=26216&REQUEST=GetCapabilities&SERVICE=WMS)
- [http://www.wms.nrw.de/gd/GK100?REQUEST=GetCapabi
lities&SERVICE=WMS](http://www.wms.nrw.de/gd/GK100?REQUEST=GetCapabi
lities&SERVICE=WMS)



Create your own Application

- Generate an application called FOSS4G
- Switch to tab Layout
- Insert Map-Element in region content
 - SRS EPSG:4326
 - MAX EXTENT France
 - lower left -4.6 42.4 – upper right 9.1 51.4
 - Start Extent Paris / Marne-le-Vallé
 - lower left 2.5846 48.839
 - upper right 2.5904 48.8436



Populate application with Services

- Switch to tab Layersets
- Create a layerset for the main map and a layerset for the overview map or layersets for different topics
- Add WMS to your layersets
- If necessary configure the services



Activate Layersets in Map-Element

- Go back to layout to your map-Element
- Choose the layerset/s you would like to display in the main map



Add elements to your application

- Find information about the elements in the documentation
- <http://doc.mapbender3.org/en/bundles/Mapbender/CoreBundle/>

Try to integrate some Elements:

- Scaleselect, Navigation Toolbar, Scaledisplay, ShowCoordinates, Overview
- Layertree, Legend, Redlining in the sidebar



Discover more elements

- Find information about the elements in the documentation
- <http://doc.mapbender3.org/en/bundles/Mapbender/CoreBundle/>
- Measure, FeatureInfo, Image Export, LoadWMS
Notice: Some elements need a button to get activated
- HTML element
- BaseSourceSwitcher
- PrintClient



Easy way to get an application

- Copy an existing application
- reorder elements and delete everything you do not need
- add your own services



Create user

- Create user foss4ge
- User control → User → New User
- Define user name, email and password



Assign application to user

- Application → pen → Application Security
 - + → Select user → Give permission **view**
 - Access Control List
-
- Test the permission by registering as user foss4g
 - Note: You can assign access to single elements



Create a group

- Create a group called **workshop**
- User control → Groups → New Group
- Add your user **foss4ge** to the group **workshop**
- Assign an application to your group **workshop**



CSS Editor

- Default style can be overwritten
- Switch to tab css-Editor
- Define a different background color
- Examples:

<http://doc.mapbender3.org/en/book/css.html>



Try the workshop bundle

- Find a workshop bundle at
<https://github.com/mapbender/mapbender-workshop>
- <http://doc.mapbender3.org/en/book/templates.html>
- Change the title of the twig file
- Change css parameter in the scss file



Search

- Define search with SearchRouter
- SQL Search
- http://doc.mapbender3.org/en/bundles/Mapbender/CoreBundle/elements/search_router.html
- Setup a database connection in parameters.yml and config.yml
- Define the search form as YAML definition



Digitizer

- Define digitize functionality
- Edit directly on a database table
- YAML definition
- <http://doc.mapbender3.org/en/bundles/Mapbender/CoreBundle/elements/digitizer.html>



More about Mapbender3

- <http://mapbender3.org>
- Mapbender3 Code <http://github.com/mapbender>
- Version History
<http://doc.mapbender3.org/en/book/versions.html>
- Milestones / Bugtracker
<https://github.com/mapbender/mapbender/issues>



How can I participate?

- Testing
- Reporting Feedback and Bugs
- Documentation
- Programming (Git-Code)
- Mailing lists
- Translation - Join the Translation Sprint is week !!!



Thanks you for your attention!

If you have any question please contact us

Astrid Emde (astrid.emde@wherergroup.com)

or

mapbender-users@list.osgeo.org

With the kind support of



WhereGroup

Creative Commons Share Alike License 3.0

Copyright © 2017: Astrid Emde