Mapbender3 Workshop

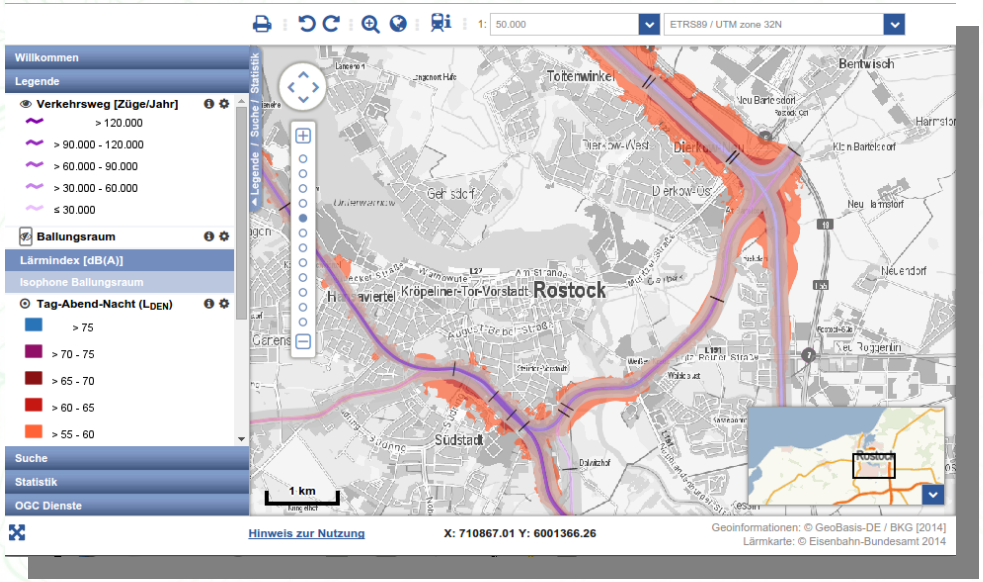
Astrid Emde

FOSS4G 2016 Bonn

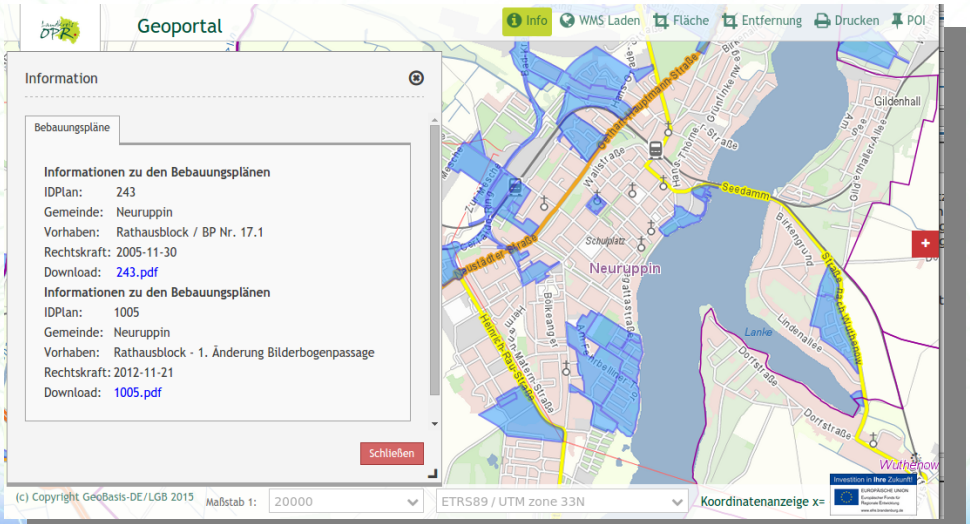
Mapbender Developer Team

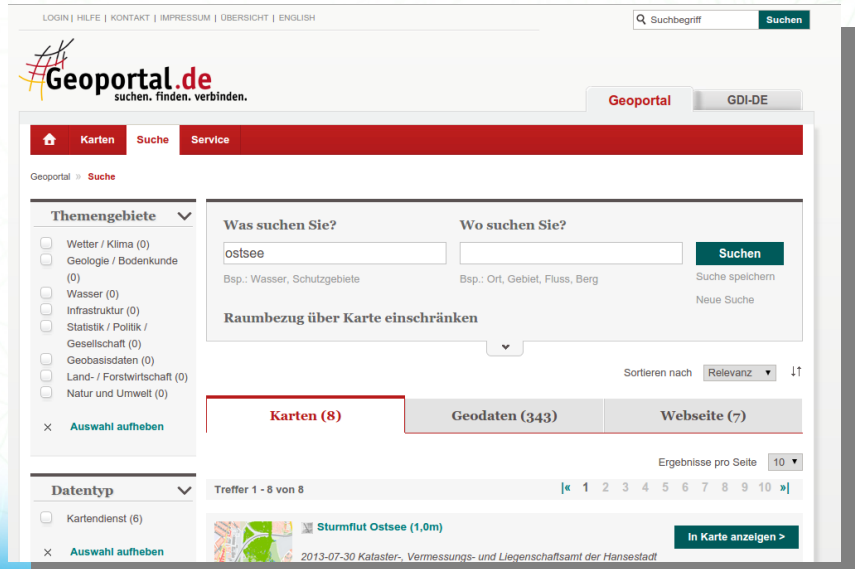
- Astrid Emde
- Mapbende Developer Team since 2004
- Mapbender PSC (Project Steering Commitee)
- Project management and development, Trainings for MapServer, PostgreSQL/PostGIS, Mapbender, GeoServer
- Testing, Documentation, Release
- WhereGroup Bonn

WhereGroup

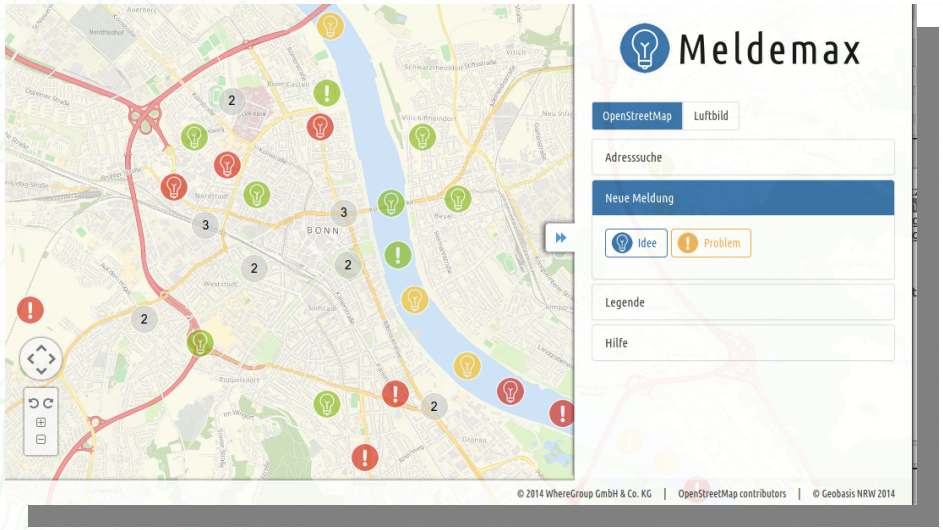

Willkommen
Legende
Verkehrsweg [Züge/Jahr]
> 120.000
> 90.000 - 120.000
> 60.000 - 90.000
> 30.000 - 60.000
≤ 30.000
Ballungsraum
Lärmindex [dB(A)]
Isophone Ballungsraum
Tag-Abend-Nacht (LDEN)
> 75
> 70 - 75
> 65 - 70
> 60 - 65
> 55 - 60
Suche
Statistik
OGC Dienste
Rostock
Südstadt
Hinweis zur Nutzung
X: 710867.01 Y: 6001366.26

Klarschiff.HRO
Stadtplan
Luftbild
Adressensuche
Stadtteil/Straße/Adresse eingeben...
neue Meldung
Beobachtungsflächen
Kartenelemente
Hilfe und Impressum
Startseite
Warnemünde
Kartenbild © Hansestadt Rostock (CC BY 3.0) | Kartendaten © OpenStreetMap (ODbL) und uVGB-MV

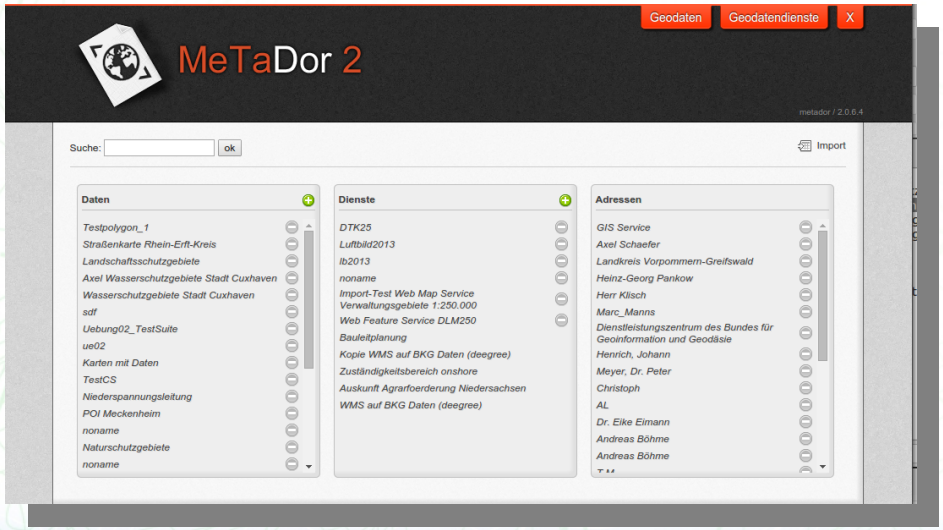

Geoportal
Info
WMS Laden
Fläche
Entfernung
Drucken
POI
Information
Bebauungspläne
Informationen zu den Bebauungsplänen
IDPlan: 243
Gemeinde: Neuruppin
Vorhaben: Rathausblock / BP Nr. 17.1
Rechtskraft: 2005-11-30
Download: 243.pdf
Informationen zu den Bebauungsplänen
IDPlan: 1005
Gemeinde: Neuruppin
Vorhaben: Rathausblock - 1. Änderung Bilderbogenpassage
Rechtskraft: 2012-11-21
Download: 1005.pdf
Schließen
Neuruppin
(c) Copyright GeoBasis-DE/LGB 2015
Maßstab 1:
20000
ETRS89 / UTM zone 33N
Koordinatenanzeige x=


Geoportal.de
suchen. finden. verbinden.
Geoportal
GDI-DE
Karten
Suche
Service
Themengebiete
Was suchen Sie?
Wo suchen Sie?
ostsee
Suchen
Raumbezug über Karte einschränken
Karten (8)
Geodaten (343)
Webseite (7)
Datentyp
Sturmflut Ostsee (1,0m)
In Karte anzeigen >
2013-07-30 Kataster-, Vermessungs- und Liegenschaftsamt der Hansestadt

WhereGroup

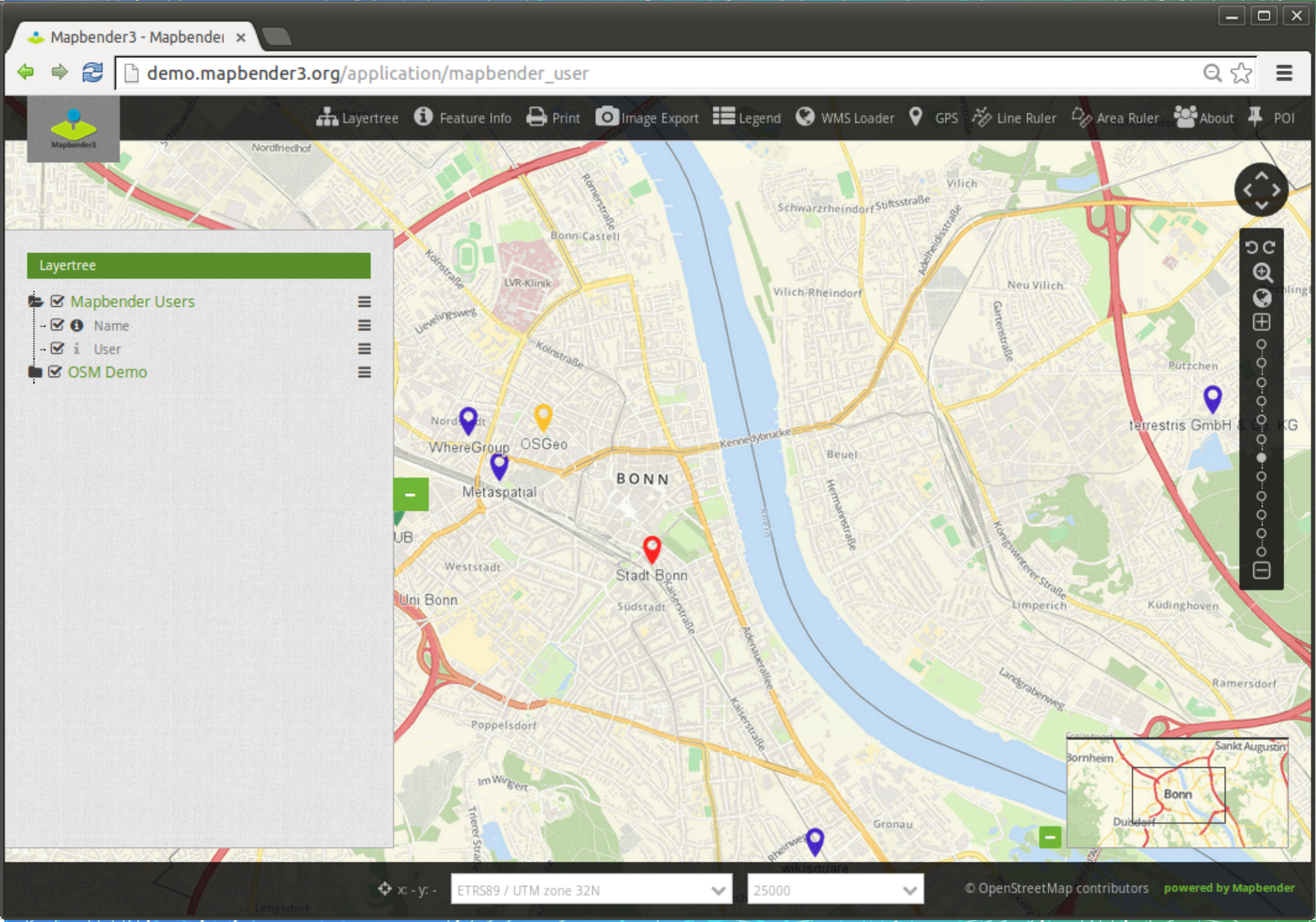


Meldemax
Platform for
ideas & problems
in your town



MetaDor2
Metadateneditor

Consulting, Training & more


Mapbender3 - Mapbender
demo.mapbender3.org/application/mapbender_user
Layertree
Feature Info
Print
Image Export
Legend
WMS Loader
GPS
Line Ruler
Area Ruler
About
POI
Layertree
Mapbender Users
Name
User
OSM Demo
WhereGroup
OSGeo
Metaspatial
BONN
Stadt Bonn
Uni Bonn
terrestris GmbH
Bonn-Castell
Vilich-Rheindorf
Neu Vilich
Beuel
Pützchen
Weststadt
Südstadt
Poppelsdorf
Gronau
Limperich
Küdinghoven
Ramersdorf
Sankt Augustin
Bornheim
Bonn
Dusdorf
x: - y: -
ETRS89 / UTM zone 32N
25000
© OpenStreetMap contributors
powered by Mapbender

Workshop

- Architecture and Installation
- What does Mapbender do?
- 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

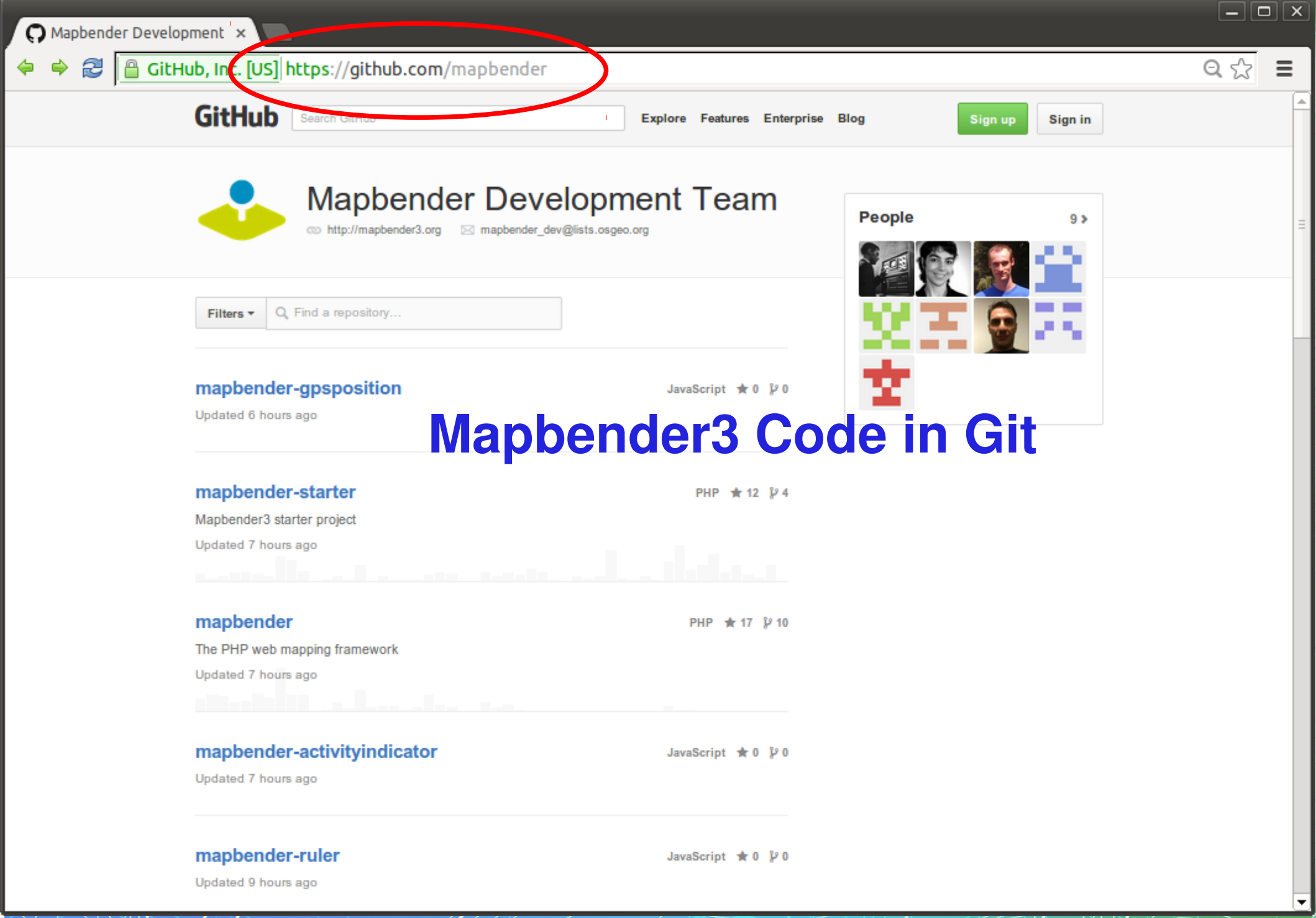
Grant users and groups access to applications and services

Which components does Mapbender3 use?

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

Systemrequirements

- >= PHP 5.4 (php5)
- PHP CLI interpreter (php5-cli)
- PHP SQLite extension (php5-sqlite)
- PHP PostgreSQL Erweiterung (php5-pgsql)
- PHP cURL extension (php5-curl)
- PHP Alternative PHP Cache (php-apc)
- PHP Internationalization-extension (php5-intl)
- PHP GD (php5-gd) (Print)
- PHP FileInfo (Print)
- PHP Zip
- APACHE mod_rewrite
- OpenSSL



Mapbender3 Code in Git

Installation

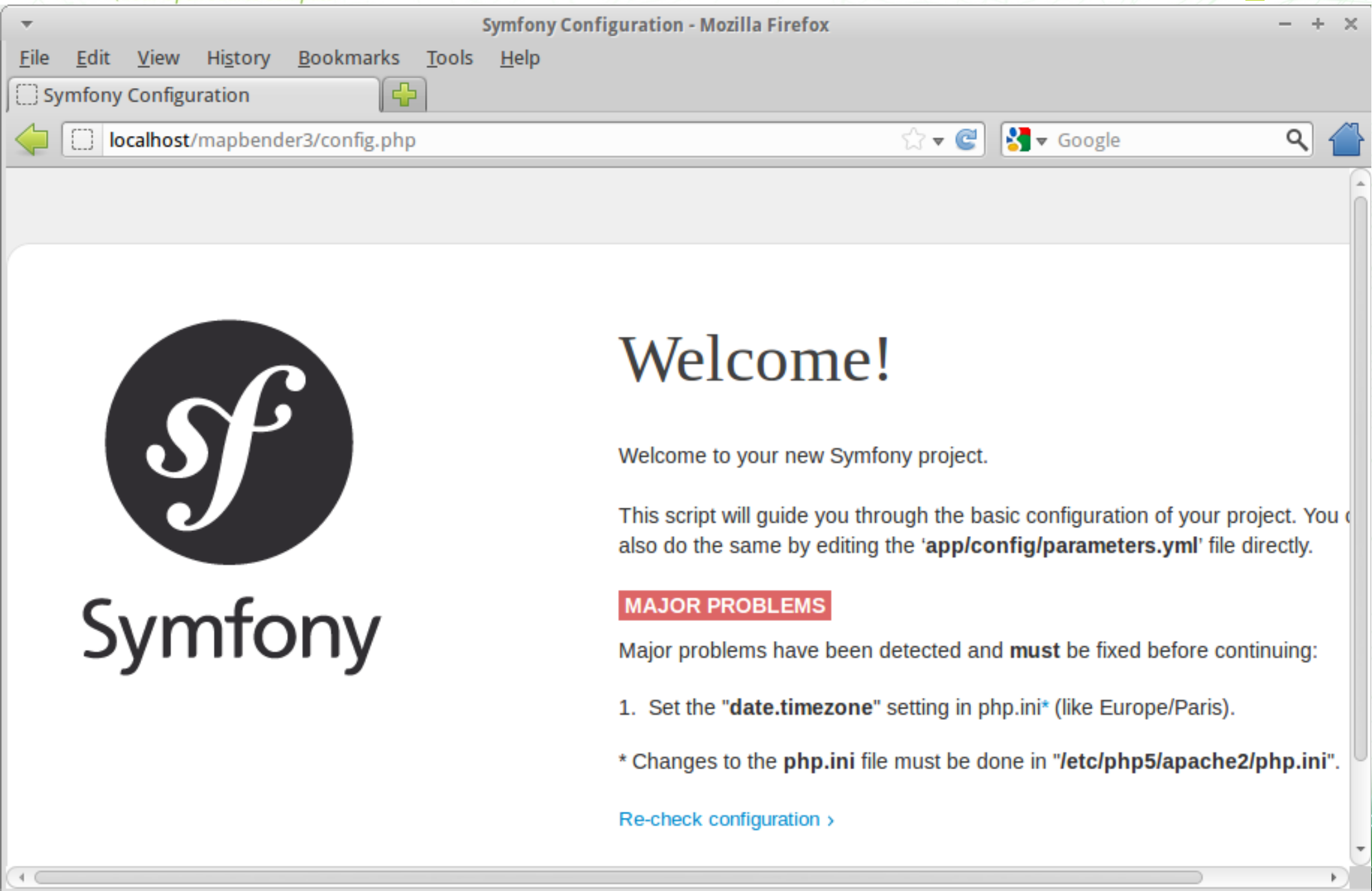
- Documentation of the Installation
- Workshop Installation install_mapbender3.sh of OSGeo-Live
- Download http://mapbender3.org/builds/

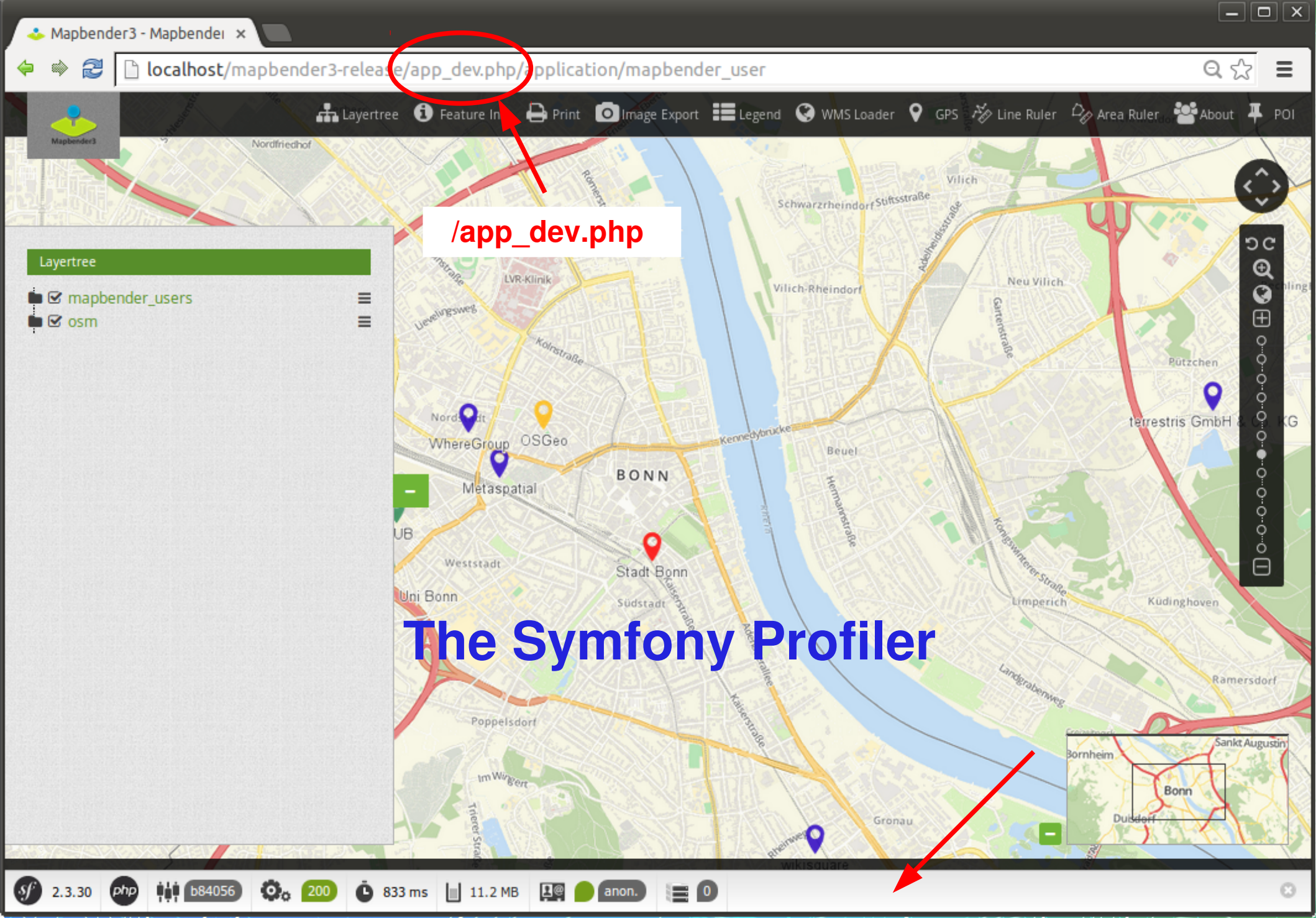
Start Mapbender3

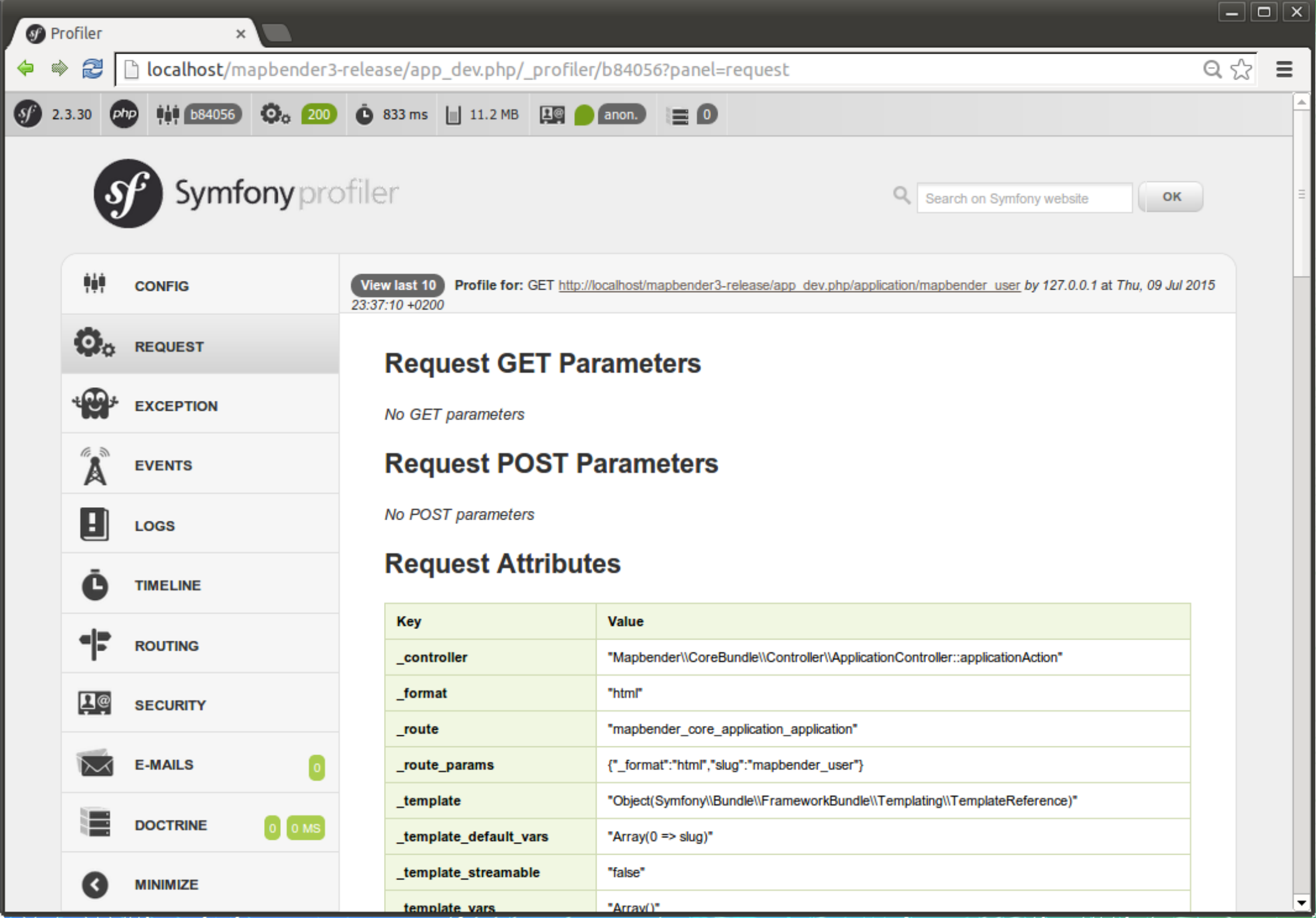
- Symfony2 test configuration
  http://localhost/mapbender3/config.php

- Developer mode
  http://localhost/mapbender3/app_dev.php
- Productive mode
  http://localhost/mapbender3/app.php

Symfony2 config.php




Mapbender3 - Mapbender
localhost/mapbender3-release/app_dev.php/application/mapbender_user
Layertree
Feature In
Print
Image Export
Legend
WMS Loader
GPS
Line Ruler
Area Ruler
About
POI
/app_dev.php
Layertree
mapbender_users
osm
WhereGroup
OSGeo
Metaspatial
BONN
Stadt Bonn
Uni Bonn
terrestris GmbH
The Symfony Profiler
2.3.30
b84056
200
833 ms
11.2 MB
anon.
0


Profiler
localhost/mapbender3-release/app_dev.php/_profiler/b84056?panel=request
2.3.30
b84056
200
833 ms
11.2 MB
anon.
0
Symfony profiler
Search on Symfony website
OK
CONFIG
REQUEST
EXCEPTION
EVENTS
LOGS
TIMELINE
ROUTING
SECURITY
E-MAILS
0
DOCTRINE
0
0 MS
MINIMIZE
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 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

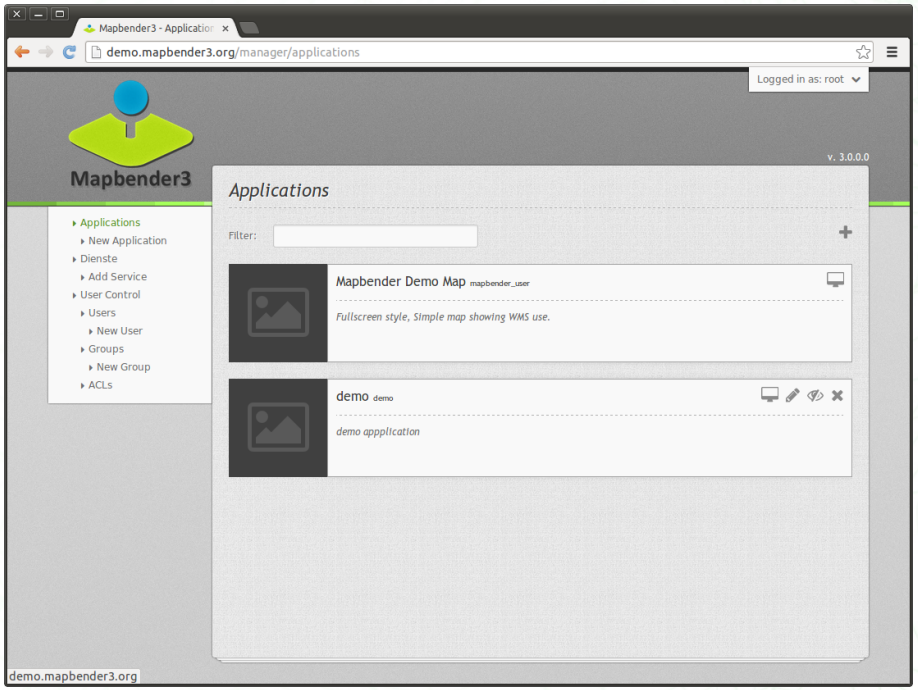
- Symfony configuration in YAML
- Mapbender3 application can be defined in YAML
  - /app/config/mapbender.yml
  - Define your application and services
- Mapbender3 configure database, language, mailer & more
  - parameters.yml
  - config.yml

Mapbender3 database

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

Application Overview

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



Login

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

Willkommen auf mapbenc

mapbender3.org

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.

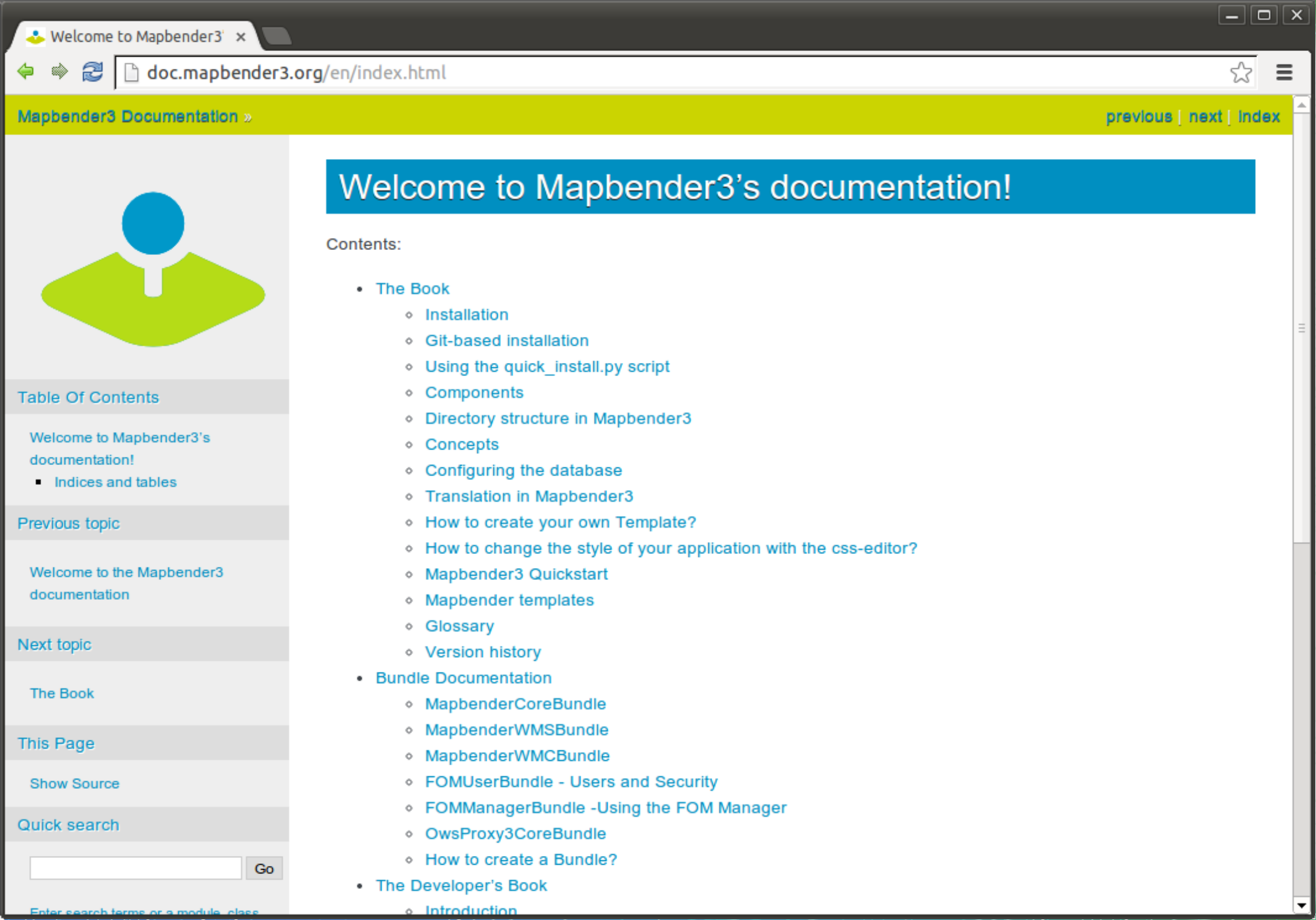
Weiterlesen

OSGeo Project

Open HUB | $33.8M Cost

Folgen Sie uns auf Twitter:

@Mapbender folgen


Welcome to Mapbender3
doc.mapbender3.org/en/index.html
Mapbender3 Documentation »
previous | next | index
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
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

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

- http://osm-demo.wheregroup.com/service?REQUEST=GetCapabilities&Service=WMS&Version=1.3.0
- http://wms.wheregroup.com/cgi-bin/germany_workshop.xml?VERSION=1.1.1&REQUEST=GetCapabilities&SERVICE=WMS
- 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.wms.nrw.de/gd/GK100?REQUEST=GetCapabilities&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 Germany
    - Lower left 5 45 – upper right 15 55
  - Start Extent Bonn
    - Lower left 7.07 50.72 - upper right 7.128 50.76

Populate application with Services

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

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 sidepane

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

Create user

- Create user foss4g
- 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 **foss4g** 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 digitze functionality
- Edit directly on a database table
- YAML definition
- http://doc.mapbender3.org/en/bundles/Mapbender/CoreBundle/elements/digitizer.html

Installation

Install Mapbender3 by the download-package

http://mapbender3.org/en/download

Or Git-Repositories

https://github.com/mapbender/mapbender-starter

Documentation for installation

http://doc.mapbender3.org

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
- Dokumentation
- Translation
- Programming (Git-Code)
- Mailing lists

Thanks you for your attention!

If you have any question please contact us

Astrid Emde (astrid.emde@wheregroup.com)

or

mapbender-users@list.osgeo.org

With the kind support of

WhereGroup

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