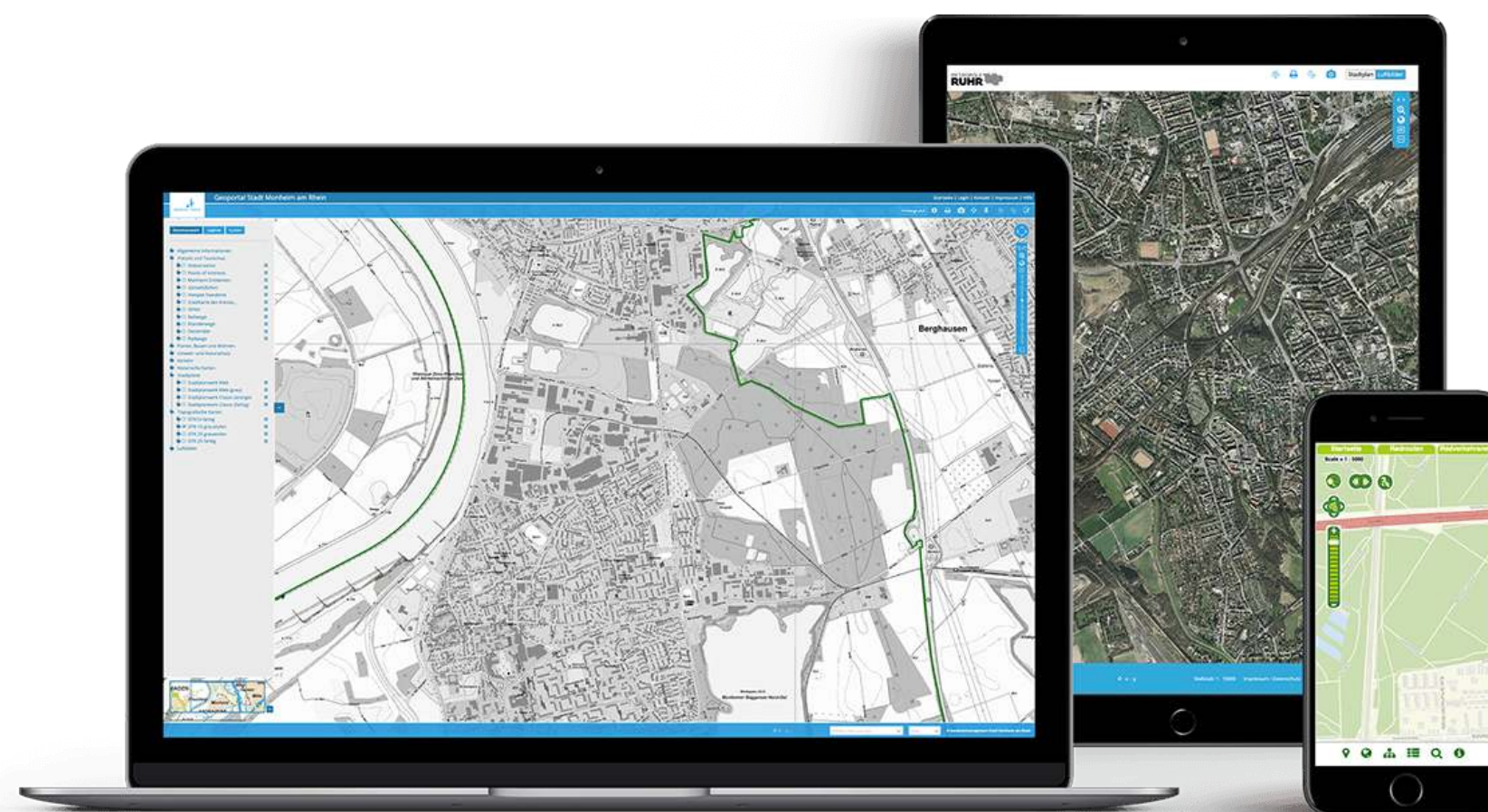


Learn how to create Web Applications with Mapbender

Astrid Emde (WhereGroup) | FOSS4G Europe 2024 Tartu Estonia



Astrid Emde

WhereGroup Bonn since 2002

focus on WebGIS & Webmapping consultancy & trainer at FOSS-Academy

PostgreSQL/PostGIS, MapServer, GeoServer, QGIS, QGIS Server, Mapbender, PostNAS-Suite
OSGeo Board, FOSSGIS e.V., Mapbender PSC, OSGeoLive PSC, QGIS-DE

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> 50 employees

developers, consultants & geospatial experts

Bonn – Berlin - Freiburg - Hamburg

Open Source Software Solutions since > 15 years

Company behind Mapbender, Metador & Mops

FOSSGIS e.V. member & OSGeo sponsor

<https://wherogroup.com>

<https://foss-academy.com>



Mapbender

Easy to configure!

- ▶ WebGIS Client Suite with administration web interface
- ▶ Create a geoportal without writing a single line of code!
- ▶ Any number of applications with only one installation
- ▶ Create and maintain an OWS repository
- ▶ Distribute configured services among applications
- ▶ Grant users and groups access to applications and services
- ▶ Supports several languages and you can support your language
- ▶ <https://mapbender.org/en/about-mapbender/>

Mapbender

- ▶ OSGeo project since 2006
- ▶ MIT License
- ▶ Code on GitHub



Olaf Knopp
Mapbender Chair

Geschäftsführer der WhereGroup und Mapbender-Projektleiter. Entscheidend bei der grundlegenden konzeptionellen Ausrichtung der Software und dem Zusammenhalt des Teams.



Astrid Emde
Mitglied des PSC

Technische Leitung des Projekts. Absolute Mapbender-Expertin. Hat schon zahlreiche Projekte mit Mapbender umgesetzt, Workshops und Schulungen gehalten. Qualitätssicherung, Dokumentation, Testing und OSGeoLive.



Thorsten Hack
Mitglied des PSC

Technischer Kopf mit viel Leidenschaft und Spaß an den Details.



Frederik Häfker
Mitglied des PSC

Spezialist für Mapbender im realen Einsatz - seine Schwerpunkte sind die Integration in bestehende Systeme und Workflows rund um die Software.



Jörg Thomsen
Mitglied des PSC

Als Berater und Trainer seit vielen Jahren am Aufbau und der Konfiguration von zahlreichen Anwendungen maßgeblich beteiligt.



Mapbender

The Architecture

- ▶ PHP Framework Symfony
- ▶ HTML
- ▶ Bootstrap
- ▶ OpenLayers as map client
- ▶ YAML configuration



Mapbender

Requirements for your installation

- ▶ Running on your server
- ▶ Needs a WebServer like Apache HTTP Server or NGINX
- ▶ Needs PHP
- ▶ Database for administration i.e. SQLite or PostgreSQL

Mapbender Functionality

Offers many features that you can combine.

- ▶ Offers elements to visualize, create and edit data.
- ▶ Search & print functionality & much more
- ▶ <https://mapbender.org/en/features/>

Mapbender Gallery

Get inspired

► <https://mapbender.org/en/showcase/>

Mapbender

Applications

Offers template applications

- ▶ Template applications demonstrate the functionality
- ▶ Create a copy & build your own application
- ▶ <https://demo.mapbender.org/>

Mapbender 4.0.0

Was released last week - 26. June 2024

- ▶ <https://mapbender.org/aktuelles/details/mapbender-version-400-released/>

Mapbender

Important Links

- ▶ Mapbender Website <https://mapbender.org>
- ▶ Mapbender Gallery <https://mapbender.org/en/showcase/>
- ▶ Version 4.0.0 Info <https://mapbender.org/aktuelles/details/mapbender-version-400-released/>
- ▶ Mapbender Funktionalität <https://mapbender.org/funktionen/>
- ▶ Mapbender Dokumentation <https://doc.mapbender.org>
- ▶ Mapbender Project on Github <https://github.com/mapbender/>
- ▶ Mapbender-Starter on Github <https://github.com/mapbender/mapbender-starter/>
- ▶ Mapbender Workshop-Repository <https://github.com/mapbender/mapbender-workshop/>
- ▶ OSGeoLive <https://live.osgeo.org>
- ▶ Mapbender on OSGeoLive https://live.osgeo.org/de/quickstart/mapbender_quickstart.html

What we will learn

- ▶ Get to know Mapbender
- ▶ Add Services to Mapbender
- ▶ Create your own application
- ▶ Get to know Mapbender functionality
- ▶ Learn about Roles and permission handling

Open the Mapbender Landing page & login

- ▶ <https://schulung.foss.academy/mapbender/>
- ▶ Login via: root / root
- ▶ Provide Applications for different needs

Publish WMS in Mapbender

- ▶ Menu → New DataSource
- ▶ Load GetCapabilities Url

Load WMS in Mapbender

- ▶ INSPIRE Geoportal <https://inspire-geoportal.ec.europa.eu/>
- ▶ Geoportal Estonia: <https://geoportaal.maaamet.ee/eng/services/public-wms-wfs-p346.html>
- ▶ FOSS4G WMS <https://wms.wherogroup.com/cgi-bin/foss4g.xml?SERVICE=WMS&VERSION=1.3.0&REQUEST=getCapabilities>
- ▶ Estonia Inspire Services <https://geoportaal.ee/eng/INSPIRE/INSPIRE-services-p714.html>
- ▶ Estonia Administrative units <https://geoportaal.ee/eng/INSPIRE/INSPIRE-services/AU-Administrative-units-p753.html>
- ▶ Estonia Cadastral-parcels <https://geoportaal.ee/eng/INSPIRE/INSPIRE-services/CP-Cadastral-parcels-p754.html>
- ▶ Geology Estonia <https://teenus.maaamet.ee/ows/wms-geoloogia?service=WMS&version=1.3.0&request=GetCapabilities>
- ▶ Kadastre Estonia <https://gsavalik.envir.ee/geoserver/kataster/wms?service=WMS&version=1.3.0&request=GetCapabilities>
- ▶ OSM by WhereGroup <http://osm-demo.wherogroup.com/service?REQUEST=GetCapabilities&Service=WMS&Version=1.3.0>
- ▶ TopPlus Open https://sgx.geodatenzentrum.de/wms_topplus_open?request=GetCapabilities&service=wms
- ▶ WMS Mundialis <https://ows.mundialis.de/services/service?Service=WMS&version=1.3.0&REQUEST=getCapabilities>

Create a new Application in Mapbender

- ▶ Your application should start with the extent of Tartu
- ▶ Copy Application mapbender_user and rename it to FOSS4G
- ▶ Switch to Layout → map-Element and set SRS EPSG:4326
- ▶ Modify MAX EXTENT to the whole world
lower left -180 -90
upper right 180 90
- ▶ Modify Start Extent Tartu
lower left 26.57 58.26
upper right 26.86 58.49
- ▶ Modify the scales to:
100000000,50000000,10000000,5000000,1000000,500000,100000,50000,25000,10000,7500,5000,2500,1000,
- ▶ Add other EPSG: 25835, 3011

Add Services to your application

- ▶ Your application should show some OGC WMS
- ▶ Go to Tab Layerset
- ▶ Add WMS via +

Modify your application

Change your application

- ▶ Add more functionality
- ▶ Disable feature you do not want to provide

Thank you

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Enjoy the
conference!

FOSS4G Europe 2024 Slides / Video: <https://talks.osgeo.org/foss4g-europe-2024-workshops/talk/SQYZEP/>

