

OpenLayers



Stand, Neues und Ausblick; oder
"15 Punkt-Releases später... was
kommt als nächstes?"

Marc Jansen

Gliederung

- Über...
- Stand
- Neues (15 Punkt-Releases)
- Ausblick

Über...

Marc Jansen



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- Seit 2007 Entwickler / Projektleiter bei terrestris
- Kernentwickler und PSC Mitglied GeoExt
- Kernentwickler OpenLayers
- Buchautor "OpenLayers"
- Sprecher & Trainer national & international
- OSGeo Foundation Charter Member

terrestris



⌚ @terrestris
🐦 @terrestrisde

- terrestris.de
- OpenSource GIS aus Bonn
- Entwicklung, Projekte & Support/Schulung
- Beratung, Planung, Implementierung & Wartung

Stand

Was ist OpenLayers?

“

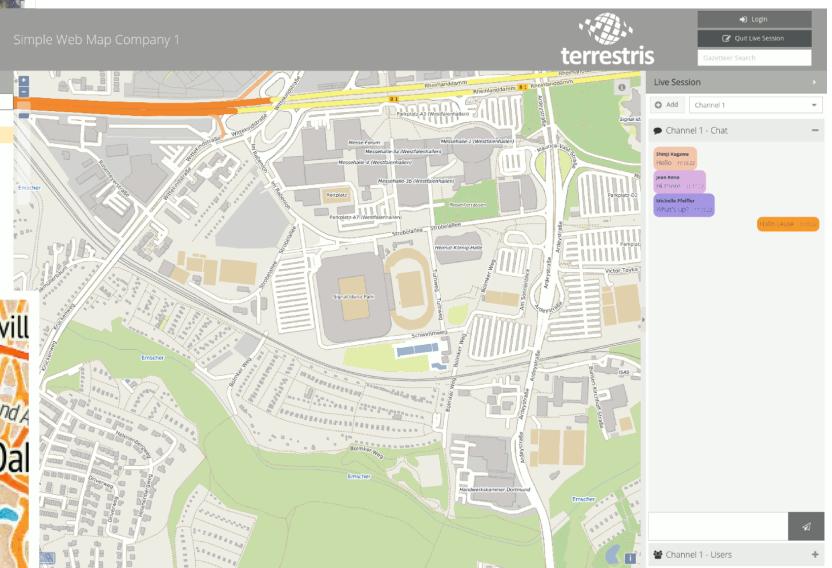
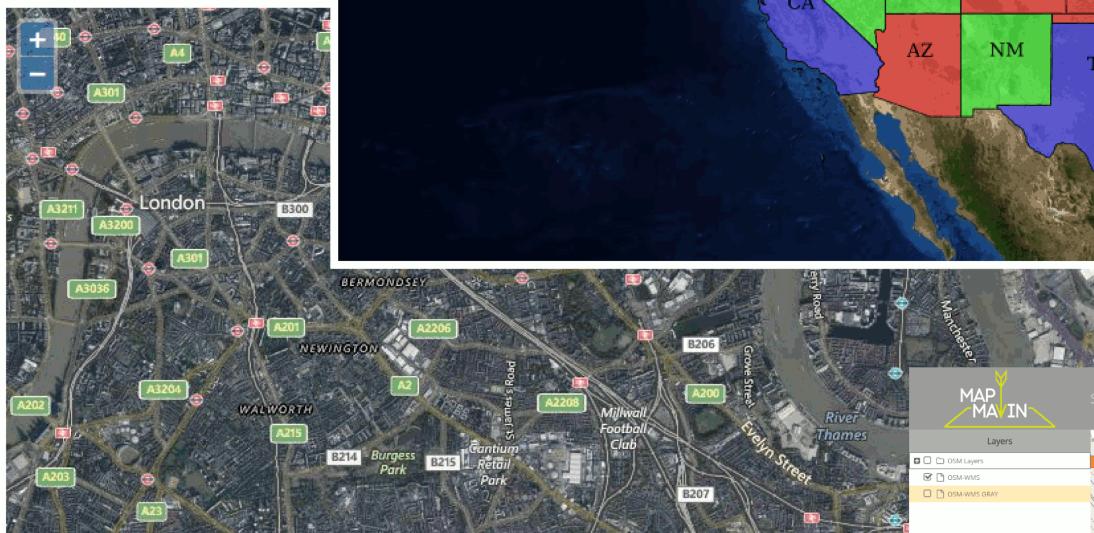
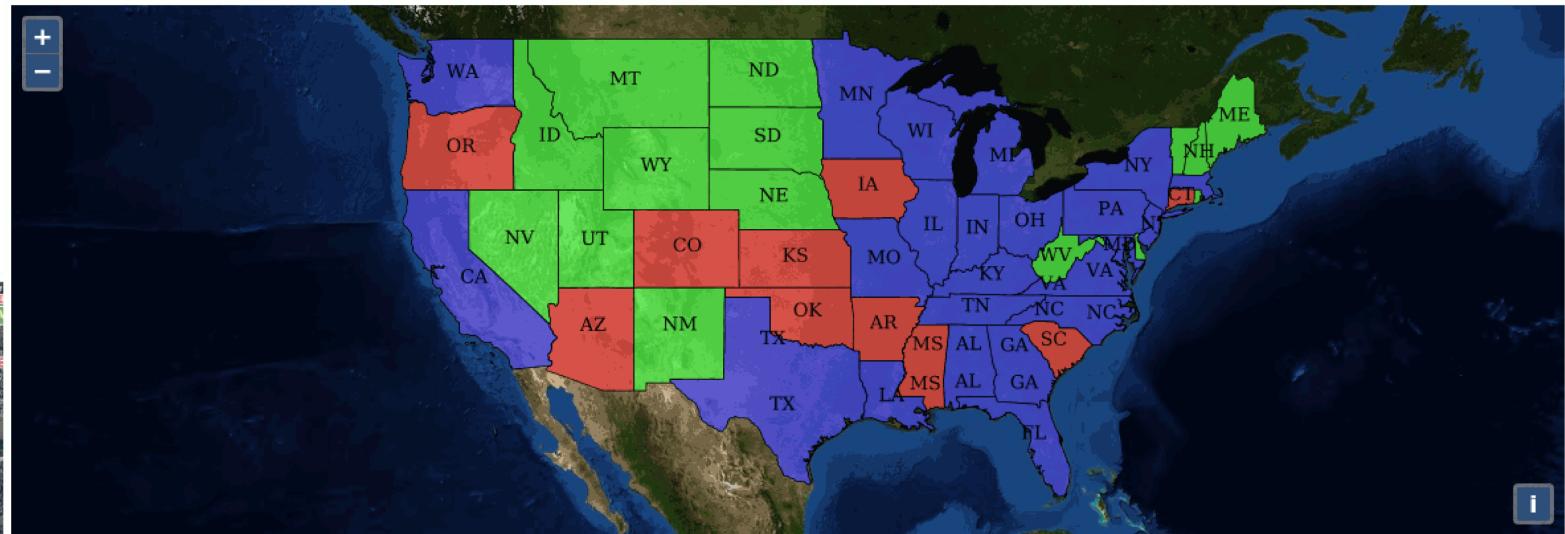
*A high-performance, feature-packed library
for all your mapping needs.*

– *openlayers.org, 27. Juni 2016*

- OpenSource (BSD)
- JavaScript
- OSGeo project

OpenLayers

- ...lange Historie
 - v2.0.0, August 2006
 - v3.0.0, August 2014
 - v3.16.0, Mai 2016
- viele Daten- & Layerquellen
- Interaktionen & Steuerelemente
- Aktiv entwickelt & große Community
- Gut dokumentiert & viele Beispiele
- Universal einsetzbar



The figure is a satellite map of Switzerland. It features a grid of red triangle markers distributed across the terrain, with a higher density in the central and southern parts of the country. Major bodies of water, such as Lake Geneva and Lake Constance, are visible. In the bottom right corner, there is a small legend box labeled "Background". The map is overlaid with a light gray grid and includes various interface elements like a search bar, a menu bar, and a legend.

Sentinel

Sentinel Preview

Hide preview Layer

Cloudcoverage

0% 100%

Timerange

2015-11-25 2016-05-23

Area

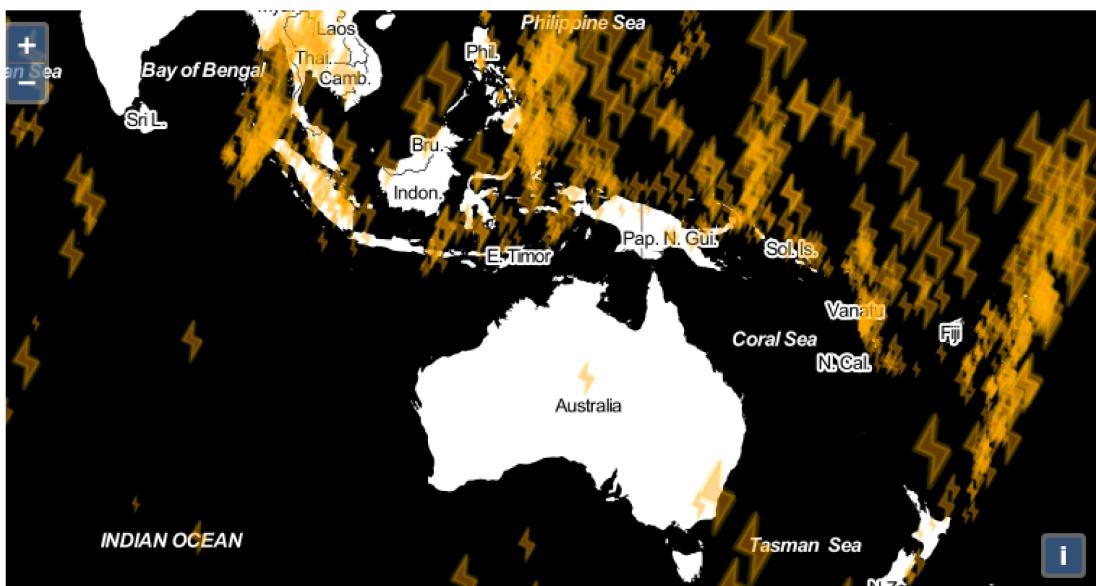
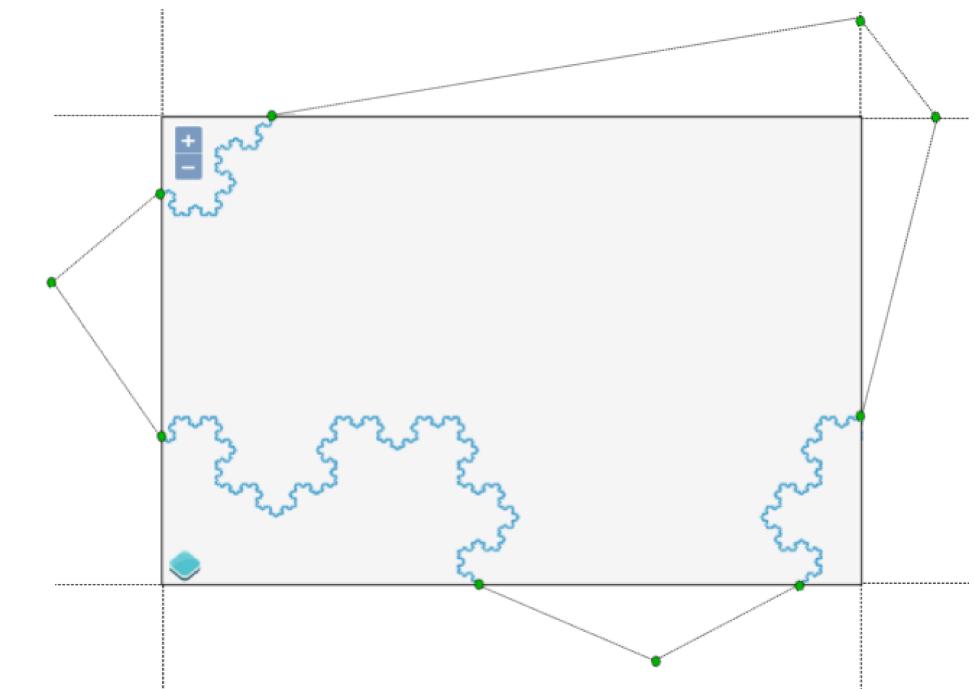
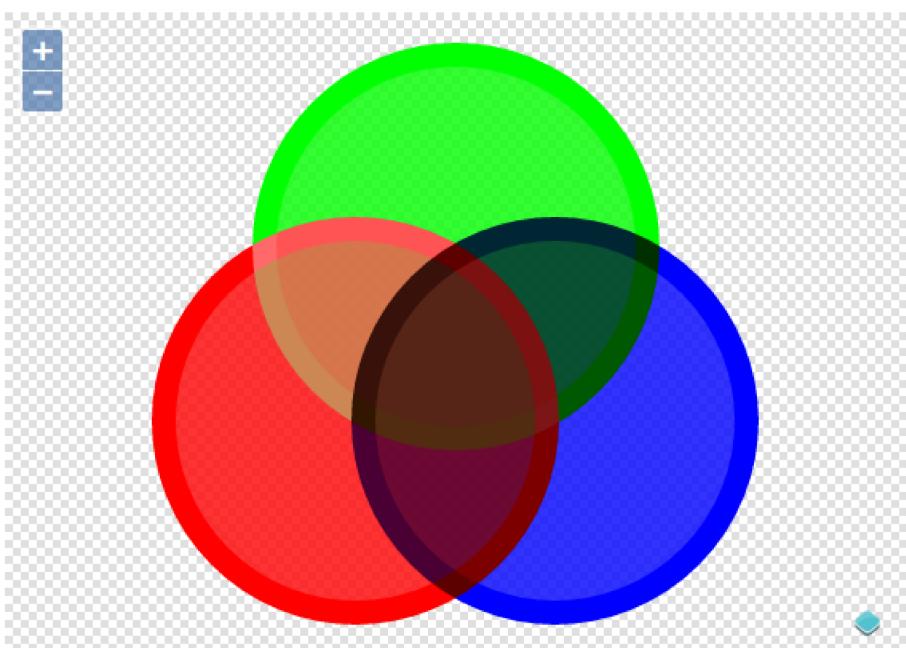
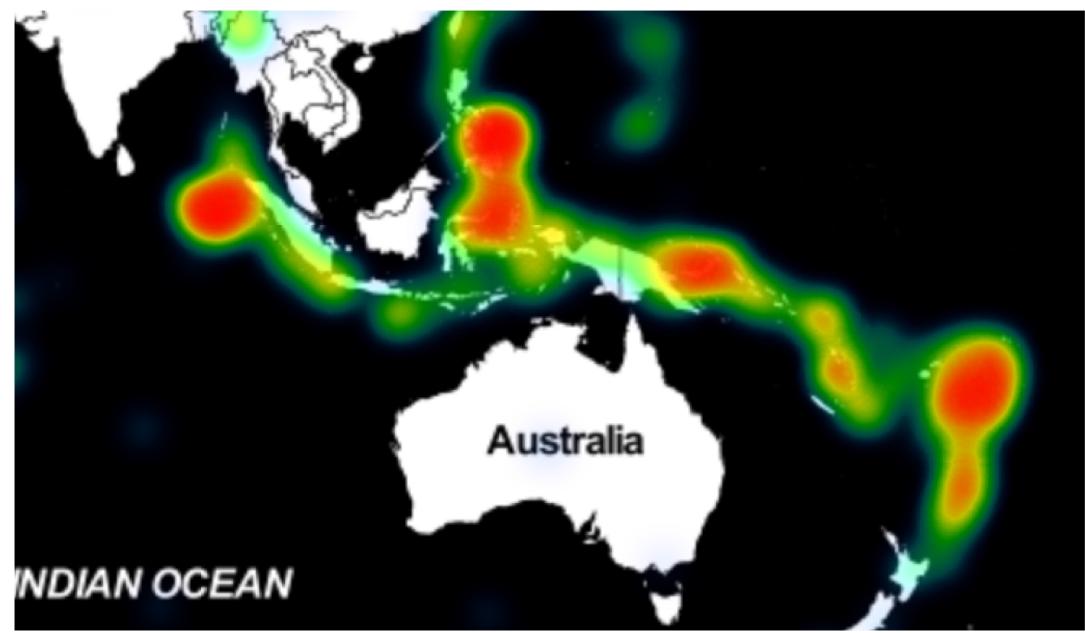
Box Start draw!... Show filtered results

Sentinel Search +

True Color Composite Color Infrared Land/Water Vegetation Analysis Atmospheric Penetration

Zoom to example ?

The screenshot shows a map of Europe with a focus on Scandinavia, Germany, and Central Europe. The map displays numerous red dots representing rainfall data points. A modal dialog box titled 'MJ' is open in the center, containing a 'Zeitpunktfilter' section with the date '28.11.1990 20:15' and a 'Zeitraumfilter' section with the same date range. Below these are 'Wertefilter' and 'HuMpTy' dropdown fields, both currently set to 'dummy'. At the bottom of the dialog is a blue button labeled 'Filter übernehmen und Layer der Karte hinzufügen!'. The top of the dialog has tabs for 'Zeitpunkt', 'Zeitraum', and 'Werte'. The top left corner of the map interface shows the logo of the Bundesamt für Strahlenschutz and the word 'Multilisce'. The top right corner includes buttons for 'Vollbild', 'Zeitbezug (UTC)', 'Hilfe', and 'DE'. On the left side, there's a sidebar with 'Auswahl' and 'LayerSet 1' sections listing various data layers like 'BFS: niederschlag_24h', 'BFS: odi_brutto_mobil', etc., and a 'MJ' section. Below this is a 'Alle Layer' button. At the bottom left is a 'Menu schließen' button. The bottom right corner contains a 'Legende' section with three checked items: 'niederschlag_24h' (15.11.2015 09:00:00), 'odi_brutto_10min' (05.11.2015 12:00:00), and 'Hintergrundkarte'.



OL3-Cesium

OpenLayers - Cesium integration library



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Release



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Examples



View
API Docs



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.zip file



Download
.tar.gz file

OL3-Cesium

OpenLayers - Cesium integration library. Create your map using [OpenLayers 3](#), and visualize it on a globe with [Cesium](#).

// Features

Switch smoothly between 2D and 3D and synchronize:

- Map context (bounding box and zoom level);
- Raster data sources;
- Vector data sources in 2D and 3D;
- Map selection (selected items).

The library is configurable and extensible and allows:

- Lazy or eager loading of Cesium
- Limiting Cesium resource consumption (idle detection)

Stay tuned for more exciting features like animated transitions between map and globe view, and synchronization of maps in projections other than EPSG:4326 and EPSG:3857.

// Getting started

Please check the github project for all technical details: <https://github.com/openlayers/ol3-cesium>.

is maintained by [openlayers](#).

This page was generated by [GitHub Pages](#) using the Architect theme by [Jason Long](#).

Neues
15 Punkt-Releases später

11.03.2015 – 05.07.2016

v3.3.0 – v3.17.0

14 Punkt-Releases

 Code

 Issues 412

 Pull requests 52

 Wiki

 Pulse

 Graphs

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare branches](#).



base: **master@{2015-03-11}** ▾

...

compare: **master@{2016-07-05}** ▾

 Commits 3,133

 Files changed 1,035

 Commit comments 7

This comparison is big! We're only showing the most recent 250 commits.

- > 3.000 commits
- > 1.000 Dateiänderungen
- 22 Beitragende (code)

**tschaub**

414 commits / 109,912 ++ / 124,141 --

#1

**ahocevar**

344 commits / 118,823 ++ / 101,898 --

#2

**fredj**

336 commits / 4,263 ++ / 4,568 --

#3

**afi marcjansen**

204 commits / 6,687 ++ / 1,900 --

#4

**greenkeeperio-bot**

99 commits / 128 ++ / 145 --

#5

**petrsloup**

96 commits / 4,716 ++ / 1,689 --

#6



- Top-6 Beitragende
- 5 verschiedene Firmen & ein Bot
- 5 verschiedene Nationalitäten
- Hohe Kontinuität

Wichtige Änderungen / neue Features

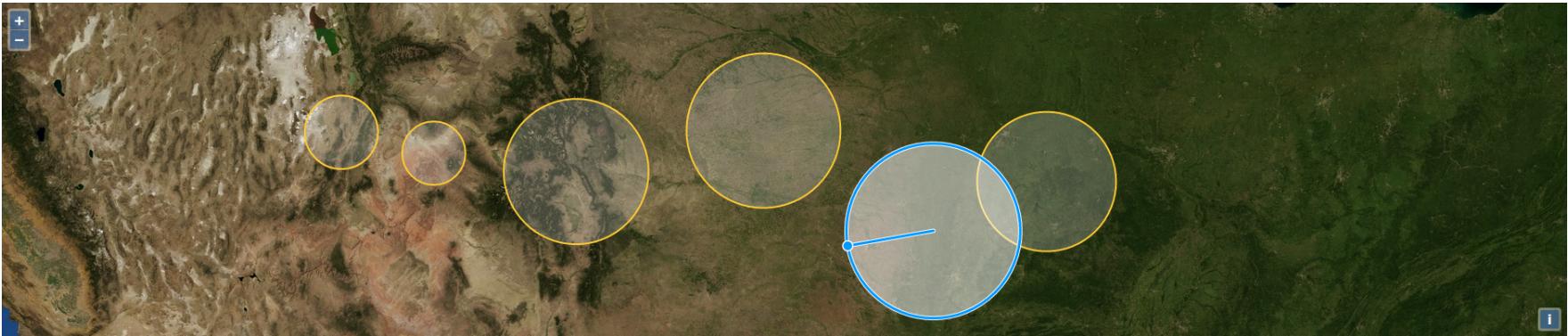
... eine Auswahl

v3.4.0

- Dateline wrapping tile-sources



- Circles in Draw interaction

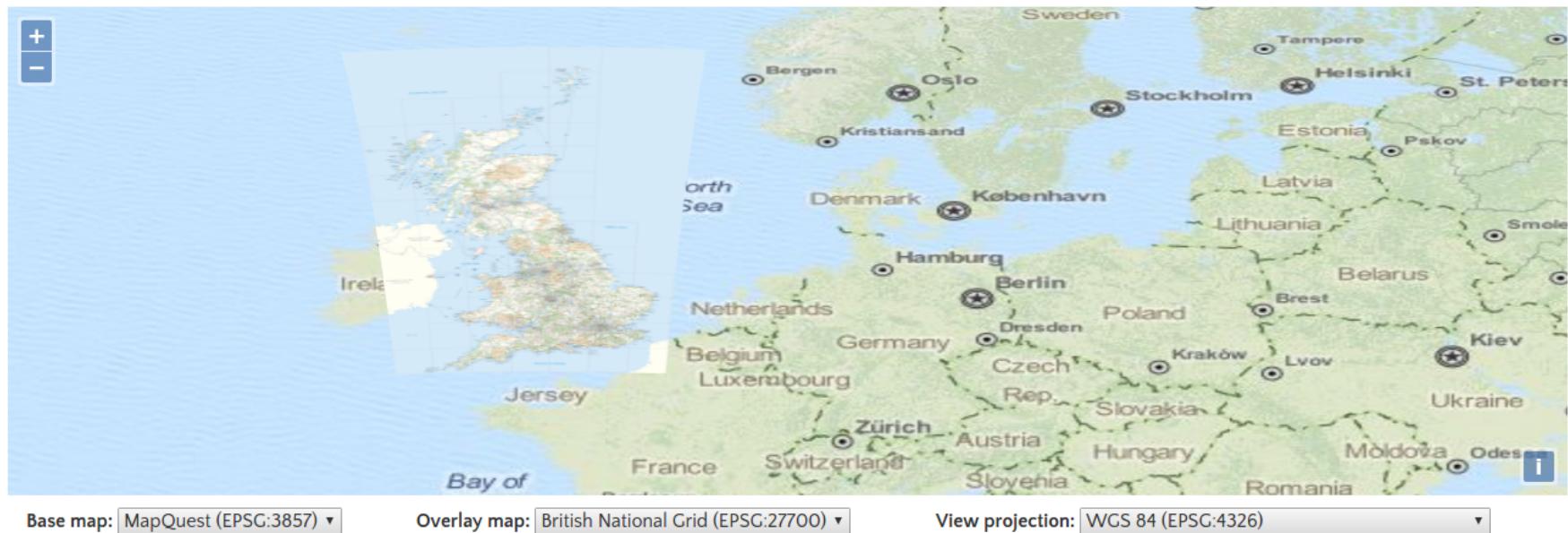


v3.4.0 — v3.10.0

- Einige experimentelle Features entfernt (two-way-binding, FeatureOverlay...)
- Spezifische Vektor sources entfernt; => format in Vector-source
- Translate Interaktion
- IE 9 mit ES5-Shims, Edge-Support
- Zahlreiche Bugfixes
- Performanceverbesserungen
- Bessere Dokumentation
- ...

v3.11.0

- Clientseitige Rasterreprojektion





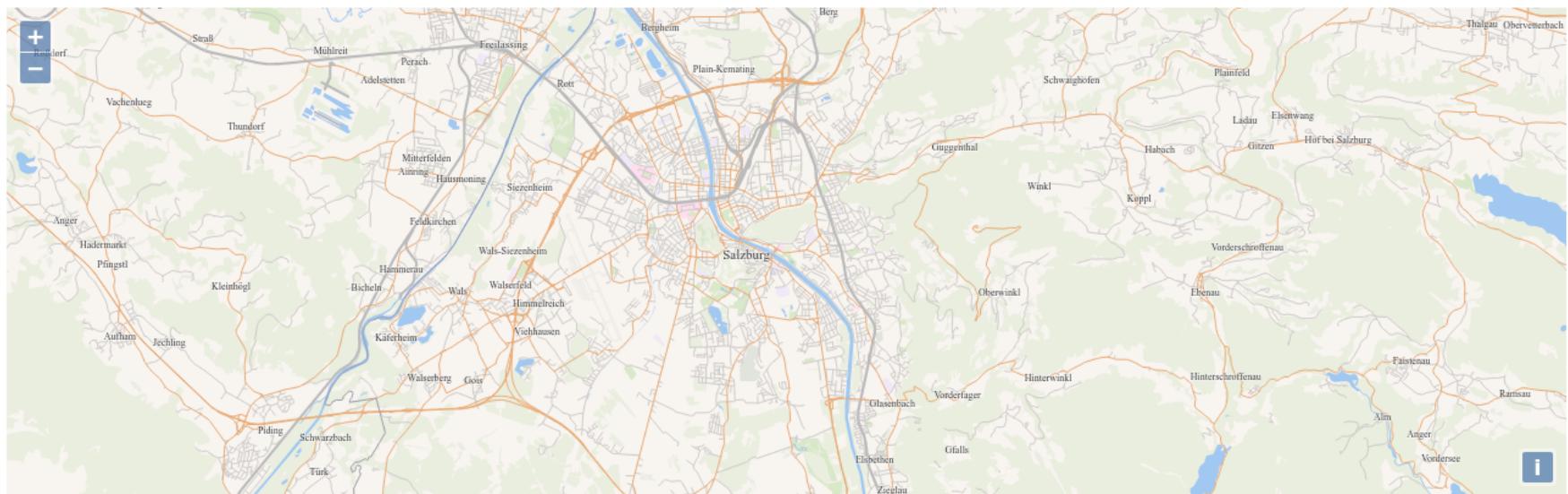
Sydney, Australien, Oktober 2009

Reprojection with EPSG.io Search



v3.11.0

- Mapbox Vector Tiles



Advanced Mapbox Vector Tiles



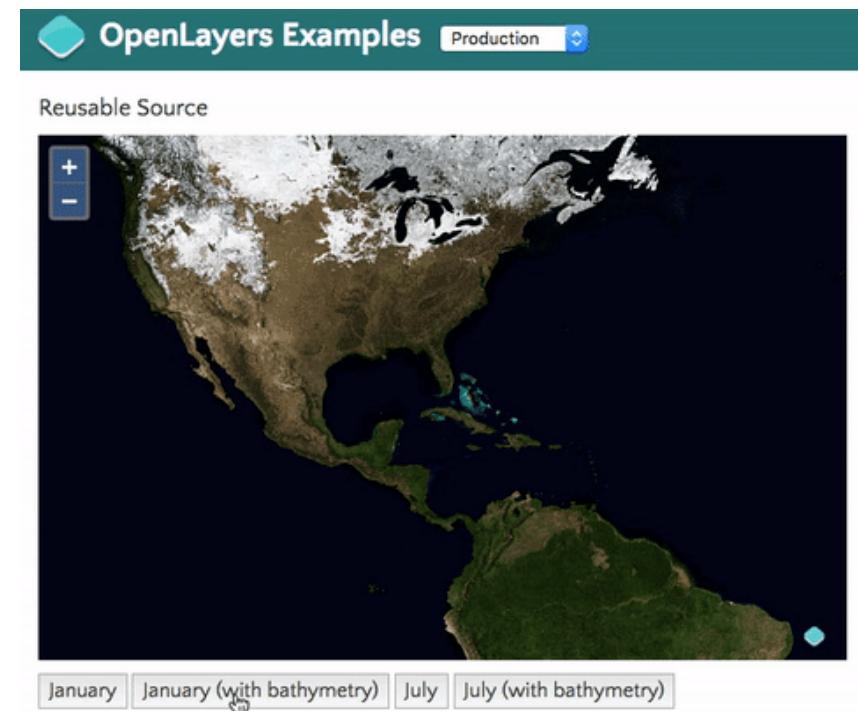
Außerdem neu:

- ol.source.CartoDB
- ol.source.ImageArcGISRest
- Multiline Labels (Vektoren)
- ol.source.Raster

Raster Source



Weiche Übergänge bei URL-Änderungen



...gerne Vergessen

- ...zahlreiche Usability- und Dokumentationsverbesserungen
- Kreuzverlinkung
- Verlinkung API
- Kennzeichnung älterer Beispiele / API

v3.3.0

 OpenLayers 3 Examples Production

This example uses OpenLayers v3.3.0. The latest is v3.16.0.



Simple example
Example of a simple map.
See the [simple.js source](#) to see how this is done.

v3.16.0

 OpenLayers Examples Production

Docs Examples API Code

Simple Map



A simple map with an OSM source.
Related API documentation: [ol.Map](#), [ol.View](#), [ol.layer.Tile](#), [ol.source.OSM](#)

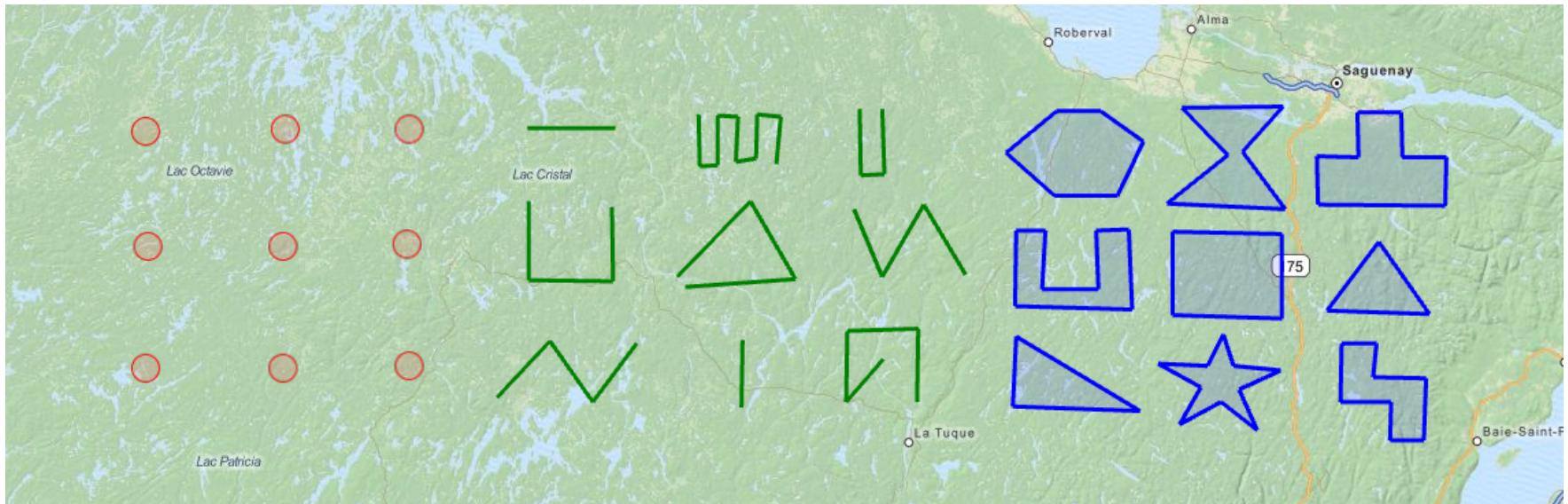
```
<!DOCTYPE html>
<html>
  <head>
    <title>Simple Map</title>
    <link rel="stylesheet" href="http://openlayers.org/en/v3.16.0/css/ol.css" type="text/css">
    <script src="http://openlayers.org/en/v3.16.0/build/ol.js"></script>
  </head>
  <body>
    <div id="map" class="map"></div>
    <script>
      var map = new ol.Map({
        layers: [
          new ol.layer.Tile({
            source: new ol.source.OSM()
          })
        ],
        target: 'map',
        view: new ol.View({
          center: [0, 0],
          zoom: 2
        })
      });
    </script>
  </body>
</html>
```

Ausblick

... was kommt als
nächstes?

Zukunftsmusik

- Abhangigkeit von closure-library entfernen
- ECMAScript 2015 Module
- Mehr WebGL (Linien und Flachen), #5462



• ...

OpenLayers 3 - OpenLayer x

openlayers.org/en/v3.15.1/builder/

Bootstrap Modal and Git to GH-pages ngeo_desktop Python and Real-time Prévisions Savoie Autres favoris

OpenLayers 3 Docs Examples API Code

Custom Build Tool

Choose components for your custom build of OL3.

Compile & Download Selected ➔

Symbols

animation +

Attribution +

Collection +

colorlike +

coordinate +

DeviceOrientation +

easing +

extent +

Feature +

Toggle All

Defines

ol.ASSUME_TOUCH

ol.ENABLE_CANVAS

ol.ENABLE_DOM

ol.ENABLE_IMAGE

ol.ENABLE_NAMED_COLORS

ol.ENABLE_PROJ4JS

ol.ENABLE_RASTER_REPROJECTION

ol.ENABLE_TILE

ol.ENABLE_VECTOR

ol.ENABLE_VECTOR_TILE

Toggle All

Toggle Default

Vielen Dank

Fragen & Anmerkungen?

Impressum

Impressum

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Lizenz

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Vortragsfolien, PDF-Version, git repository