

OpenLayers 3



STAND, NEUES & ZUKÜNFTIGES

Marc Jansen, Bart van den Eijnden & Andreas Hocevar

GLIEDERUNG

- Über...
- Stand ^{Marc}
- Neues ^{Andreas}
- Zukünftiges ^{Bart}

MARC JANSEN

- Seit 2007 Entwickler / Projektleiter bei terrestris
- Seit 2011 Kernentwickler / Committer OpenLayers
- Kernentwickler und PSC Mitglied GeoExt
- Buchautor "OpenLayers"
- OSGeo Foundation Charter Member



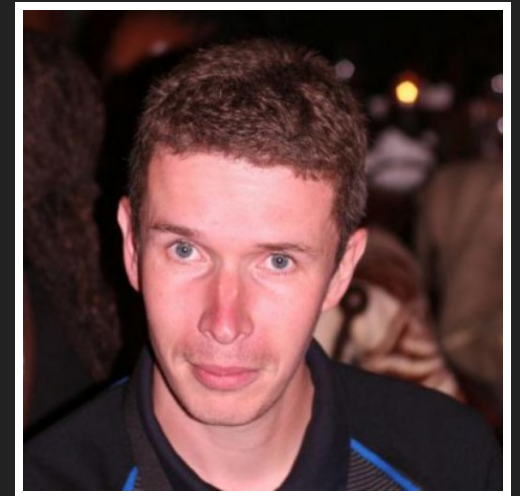
ANDREAS HOCEVAR

- Konsulententätigkeit für Boundless seit 2008
- Im Steering Committee des OpenLayers Projektes
- Aktiver OpenLayers Entwickler seit 2007
- Snowboarder und Mountainbiker :-)



BART VAN DEN EIJDEN

- Konsulententätigkeit für Boundless seit 2011
- Im Steering Committee des OpenLayers Projektes seit Feb 2015
- OpenLayers Entwickler seit 2009
- Kernentwickler und PSC Mitglied GeoExt
- OSGeo board of directors



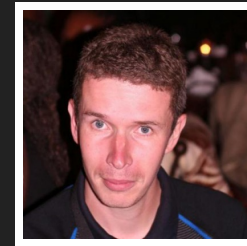
Marc



Andreas



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 @marcjansen

 @ahocevar

 @bartvde



 @selectoid

 @ahoce

 @6artvde

terrestris



 [@terrestris](#)
 [@terrestrisde](#)

- [terrestris.de](#)
- OpenSource GIS aus Bonn
- Entwicklung, Projekte & Support/Schulung
- Beratung, Planung, Implementierung & Wartung

Boundless



 [@boundlessgeo](https://github.com/boundlessgeo)

 [@boundlessgeo](https://twitter.com/boundlessgeo)

- boundlessgeo.com
- Boundless reduziert die Kosten freier Software
- Governance in der FOSSGIS Community
- Vorher bekannt als OpenGeo

STAND

OpenLayers 3

AUF DER FOSSGIS 2014 ANGEKÜNDIGT

OpenLayers 3 ...

 ...IST DA  

v3.3.0, 03.03.2015

OpenLayers

- lange Historie
- v2.0.0: August 2006

```
> git show 48445f08784810d82c741e92f297e2a51e8ef964
commit 48445f08784810d82c741e92f297e2a51e8ef964
Author: crschmidt <crschmidt@crschmidt.net>
Date: Fri Aug 25 17:55:07 2006 +0000
```

```
And I said "Ship it, or I will want to kill the next reporter of an IE bug".
And so it was done.
```

```
git-svn-id: http://svn.openlayers.org/tags/openlayers/release-2.0@1368
```

- sehr bekannt
- weit verbreitet

OpenLayers 3

- Komplettes rewrite-from-scratch
- Bis zur v3.0.0 ca. 2 Jahre Entwicklung
- [Google Closure Bibliothek](#) (Gmail, Google Maps)
- [Google Closure Compiler](#)
- [jsdoc3](#)
- [WebGL](#)
- *Mobile first / from start*
- Styling ausschließlich CSS

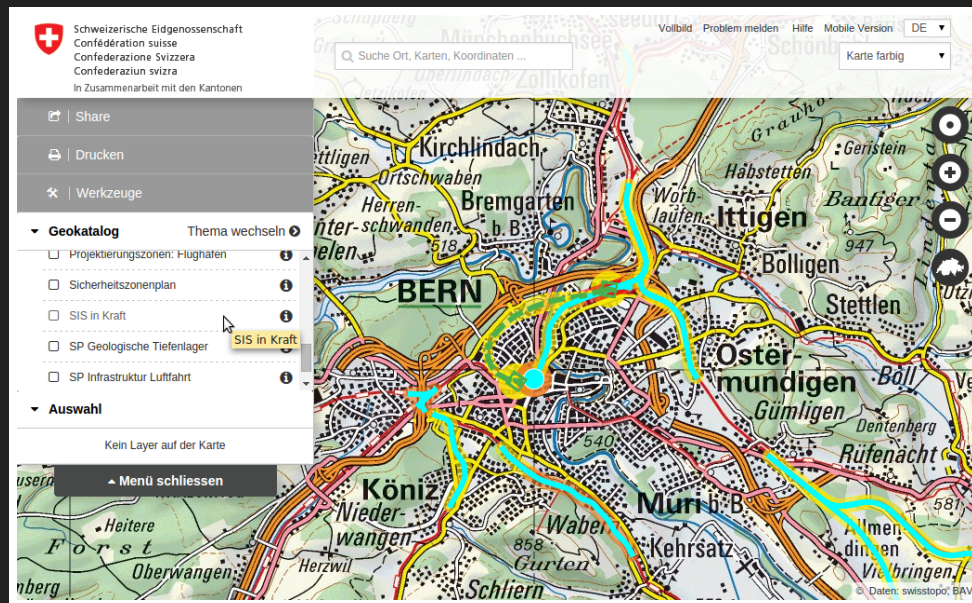
**WAS KANN MAN DAMIT
MACHEN?**

EINFACHE INTERAKTIVE KARTEN

Zeigs mir

```
window.map = new ol.Map({
  target: 'trivial-map',
  layers: [
    new ol.layer.Tile({
      source: new ol.source.OSM()
    })
  ],
  view: new ol.View({
    center: ol.proj.transform([-93.27, 44.98], 'EPSG:4326', 'EPSG:3857'),
    zoom: 9
  })
});
```

KOMPLEXE GEOPORTALE



Geoportal der swisstopo

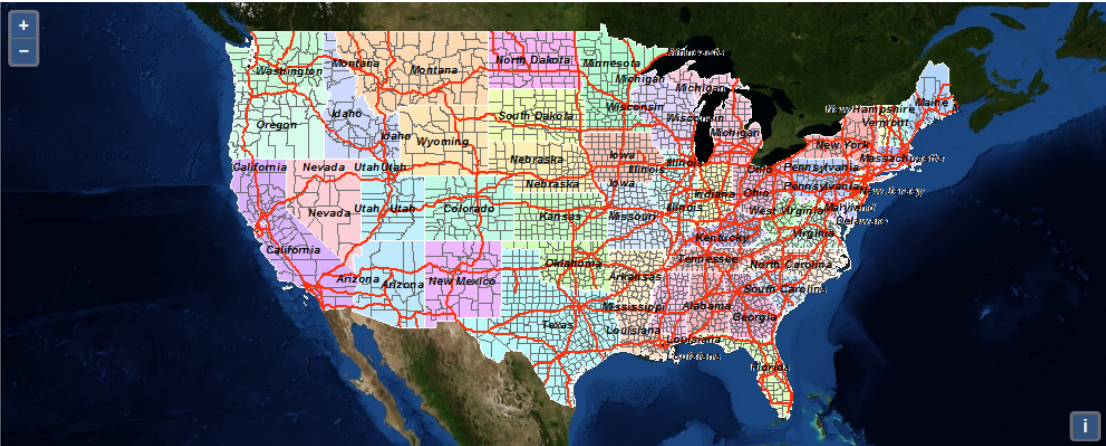
NEUES

ÄNDERUNGEN VON V3.3.0

- NEU: ArcGIS Rest Tile Layer
- autoPan von Overlays in den sichtbaren Bereich
- WMTS Verbesserungen
- Neue Events für Feature Selection
- Events zur Überwachung des Ladens von Kacheln

ARCGIS REST TILE LAYER


OpenLayers 3 Examples Production



Tiled ArcGIS MapServer example
Example of a tiled ArcGIS layer.
See the [arcgis-tiled.js](#) source to see how this is done.

<http://openlayers.org/en/v3.3.0/examples/arcgis-tiled.html>

AUTOPAN VON OVERLAYS



The screenshot shows a web browser displaying an OpenLayers 3 map. The map is titled "OpenLayers 3 Examples" and has a "Production" dropdown menu. The map shows a topographic view of Europe and the Mediterranean region. A popup is visible on the map, displaying the text "You clicked here:" followed by the coordinates "26° 22' 40" N 37° 8' 40" E". The popup has a close button (an 'x' icon) in the top right corner. The map interface includes a zoom control (plus and minus buttons) in the top left corner.

Popup example

Uses an overlay to create a popup.

Click on the map to get a popup. The popup is composed of a few basic elements: a container, a close button, and a place for the content. To anchor the popup to the map, an `ol.Overlay` is created with the popup container. A listener is registered for the map's `click` event to display the popup, and another listener is set as the `click` handler for the close button to hide the popup.

See the [popup.js source](#) to see how this is done.

<http://openlayers.org/en/v3.3.0/examples/popup.html>

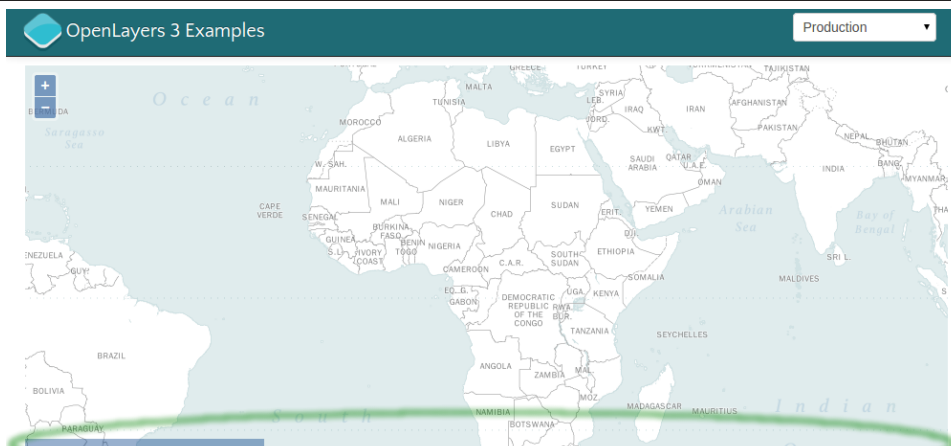
```
// WMTS layer from GetCapabilities response

$.ajax('data/wmts-capabilities.xml').then(function(data) {
  map.addLayer(new ol.layer.Tile({
    source: new ol.source.WMTS(
      ol.source.WMTS.optionsFromCapabilities(
        new ol.format.WMTSCapabilities().read(data),
        {layer: 'layer-7328', matrixSet: 'EPSG:3857'}))
  }));
});
```

```
// Information about selected and deselected features

selectInteraction.on('select', function(e) {
  alert(selectInteraction.getFeatures().getLength() +
    ' selected features (last operation selected ' +
    e.selected.length + ' and deselected ' +
    e.deselected.length + ' features)');
});
```

KACHELLEDEZUSTAND



The screenshot shows the OpenLayers 3 Examples interface. At the top, there is a teal header with the OpenLayers logo and the text "OpenLayers 3 Examples". On the right side of the header, there is a dropdown menu labeled "Production". Below the header is a world map. At the bottom of the map, there is a blue progress bar. Below the map, there is a section titled "Tile load events example" with a green oval around the title. The text below the title reads: "Example using tile load events. Image tile sources fire events related to tile loading. You can listen for `tileloadstart`, `tileloadend`, and `tileloaderror` type events to monitor tile loading progress. This example registers listeners for these events and renders a tile loading progress bar at the bottom of the map. See the [tile-load-events.js source](#) for more detail on how this is done."

<http://openlayers.org/en/v3.3.0/examples/tile-load-events.html>

ECHTES 3D MIT OL3-CESIUM

Einbindung von  **CESIUM**

Version 1.0.0 finanziert durch Kunden von Boundless

Zusammenarbeit von KlokanTech, Camptocamp und
Boundless

ECHTES 3D MIT OL3-CESIUM



The screenshot shows the website for OL3-Cesium, an OpenLayers - Cesium integration library. The page features a blue header with the title 'OL3-Cesium' and a 'View project on GitHub' button. Below the header, there are three buttons: 'Download Release', 'Browse Examples', and 'View API Docs'. To the right, there are two buttons for downloading files: 'Download zip file' and 'Download tar.gz file'. The main content area includes a description of the library, a 'Features' section, and a list of features. The footer of the page mentions that the page was generated by GitHub Pages using the Architect theme by Jason Long.

OL3-Cesium
OpenLayers - Cesium integration library

[View project on GitHub](#)

[Download Release](#) [Browse Examples](#) [View API Docs](#)

[Download 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](#).

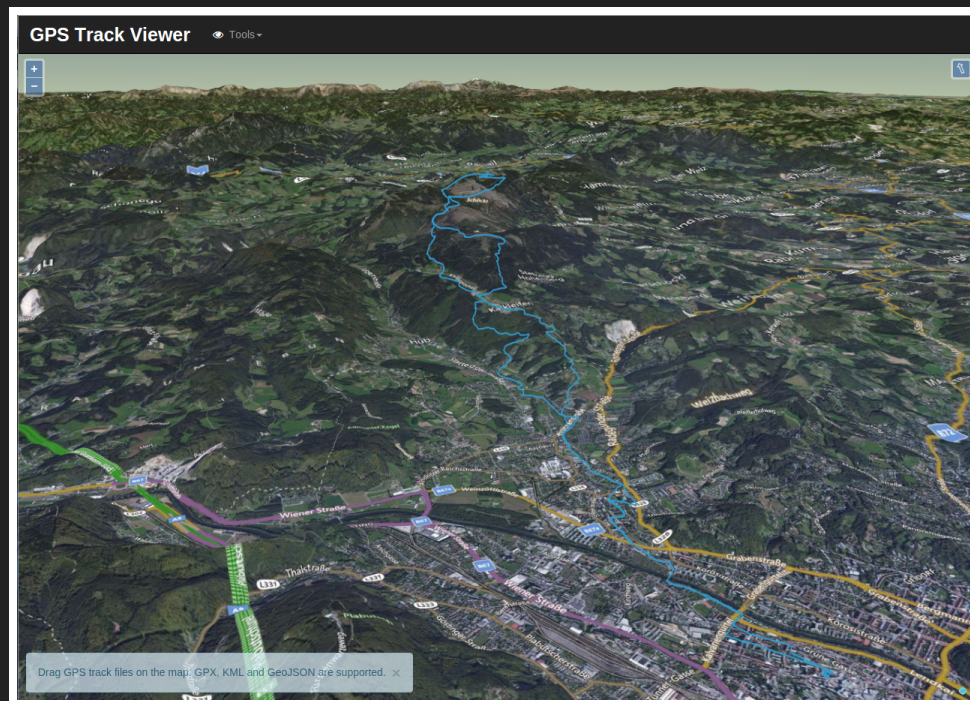
Features
Switch smoothly between 2D and 3D and synchronize:

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

is maintained by [openlayers](#).

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

<http://openlayers.org/ol3-cesium/>



<http://ahocevar.net/ol3-cesium-demo/>

ZUKÜNFTIGES

RELEASE PLANS

Wir haben jetzt monatliche Releases

3.3.0: 3. März - 3.4.0: Ende März

Die stabile API darf sich bei Nebenversionen nicht ändern

Die instabile API darf geändert werden, aber Hinweise werden zur Verfügung gestellt

SCHLADMING EVENT

Entwickler Codesprint in Österreich

30. März bis 3. April

Ziele: benutzerfreundlich, Dokumentation, Build-Prozess,
API

9 Teilnehmer von 5 Unternehmen

Weitere Informationen [hier](#)

MÖGLICHE ENTWICKLUNGSSCHWERPUNKTE

WebGL Linien und Flächen

Tilted view

Esri ArcGIS JSON

Esri ArcGIS REST Vektor Services

Raster Reprojektion

VIELEN DANK

**FRAGEN &
ANMERKUNGEN?**

Impressum

IMPRESSUM

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- Lizenz: [CC BY-SA 3.0](https://creativecommons.org/licenses/by-sa/3.0/)
- [Vortragsfolien](#), [PDF-Version](#) [git-repository](#)