

OpenLayers™

WebMapping ohne Server

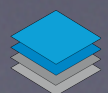
Emanuel Schütze, Intevation GmbH

emanuel@intevation.de

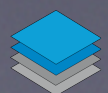
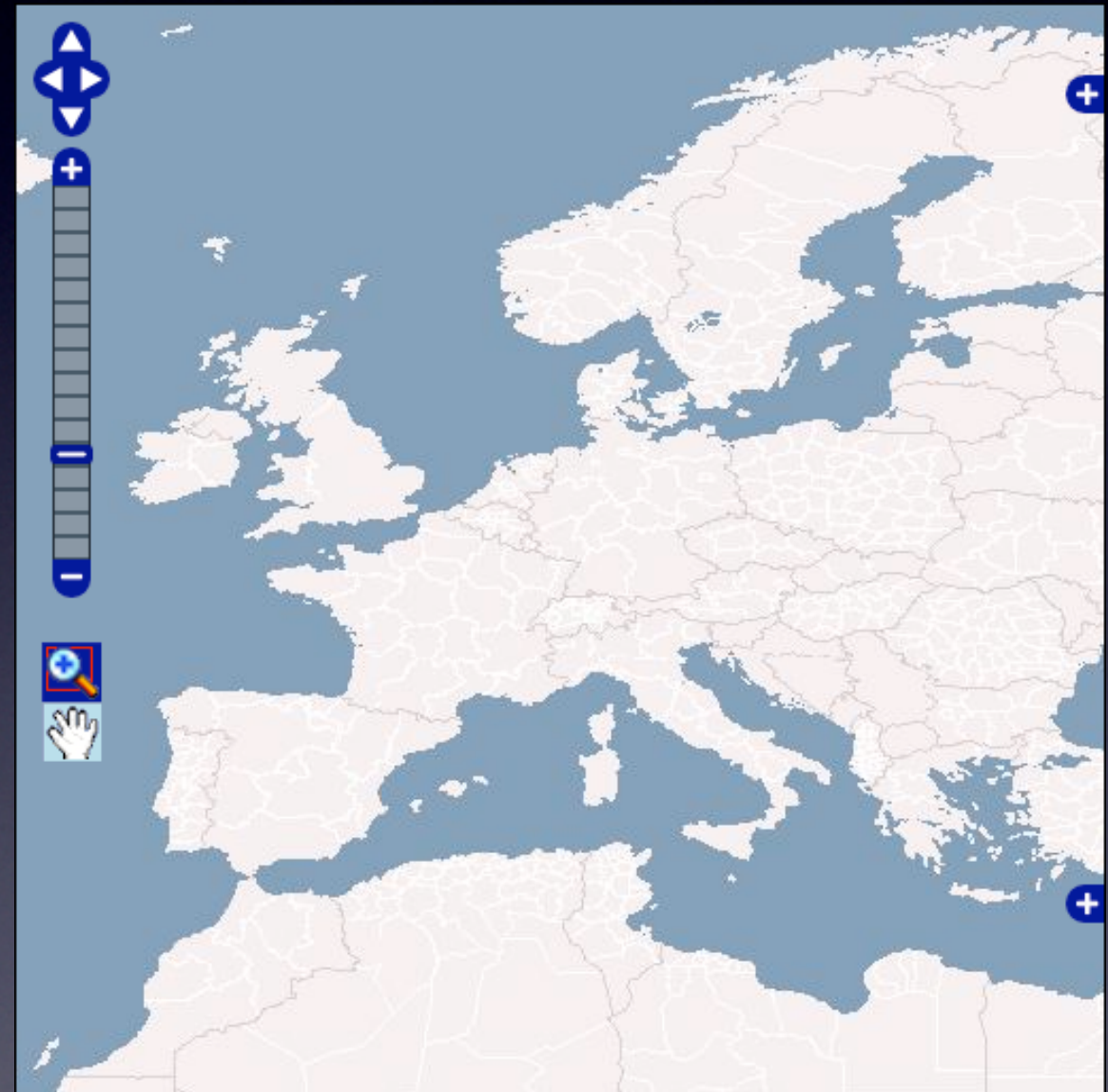
Intergeo, 25. - 27. September 2007

Gliederung

- ⦿ Was ist OpenLayers?
- ⦿ Was kann OpenLayers?
- ⦿ Demo
- ⦿ Zusammenfassung

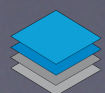
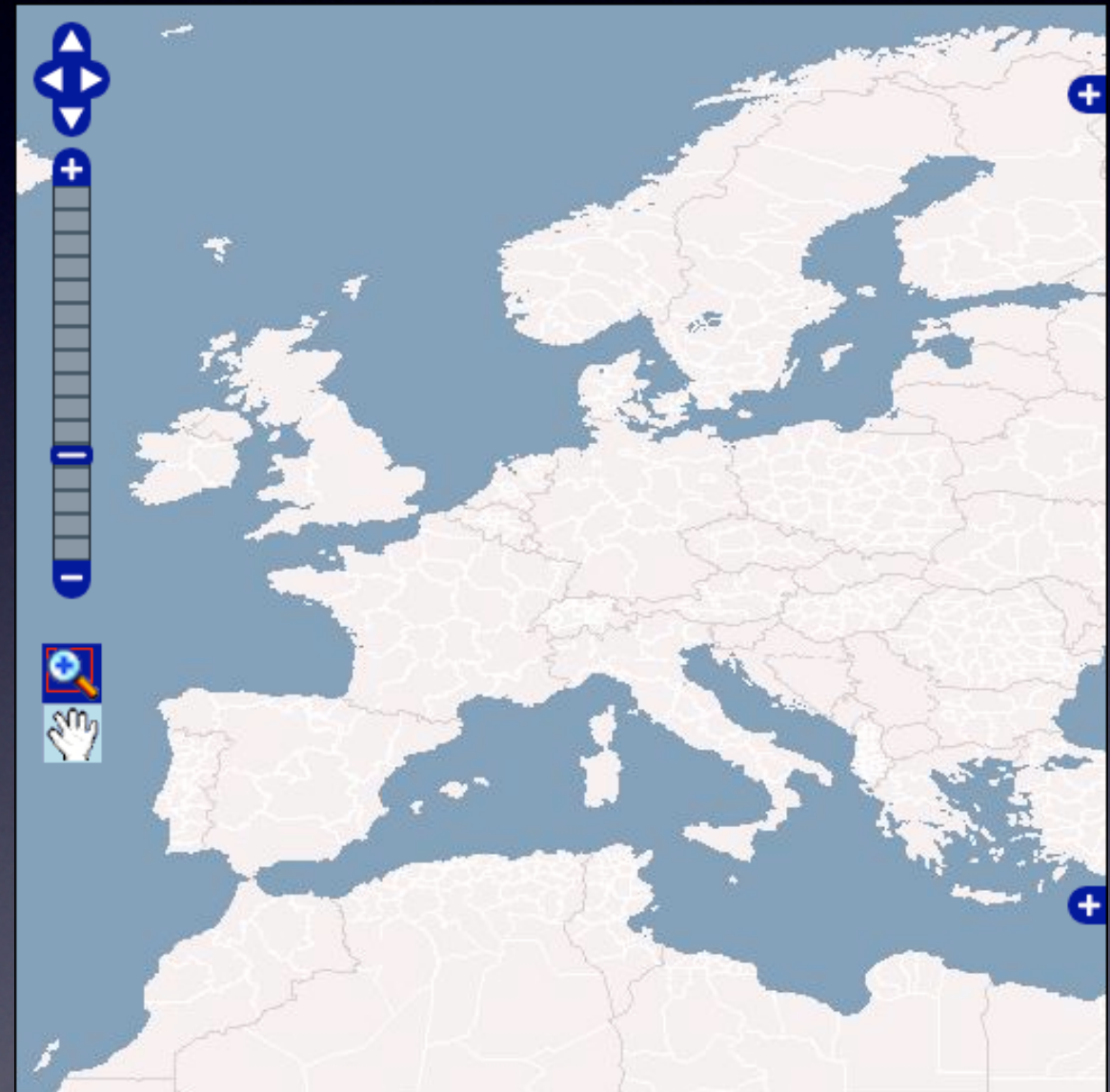


Was ist OpenLayers?



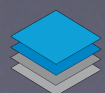
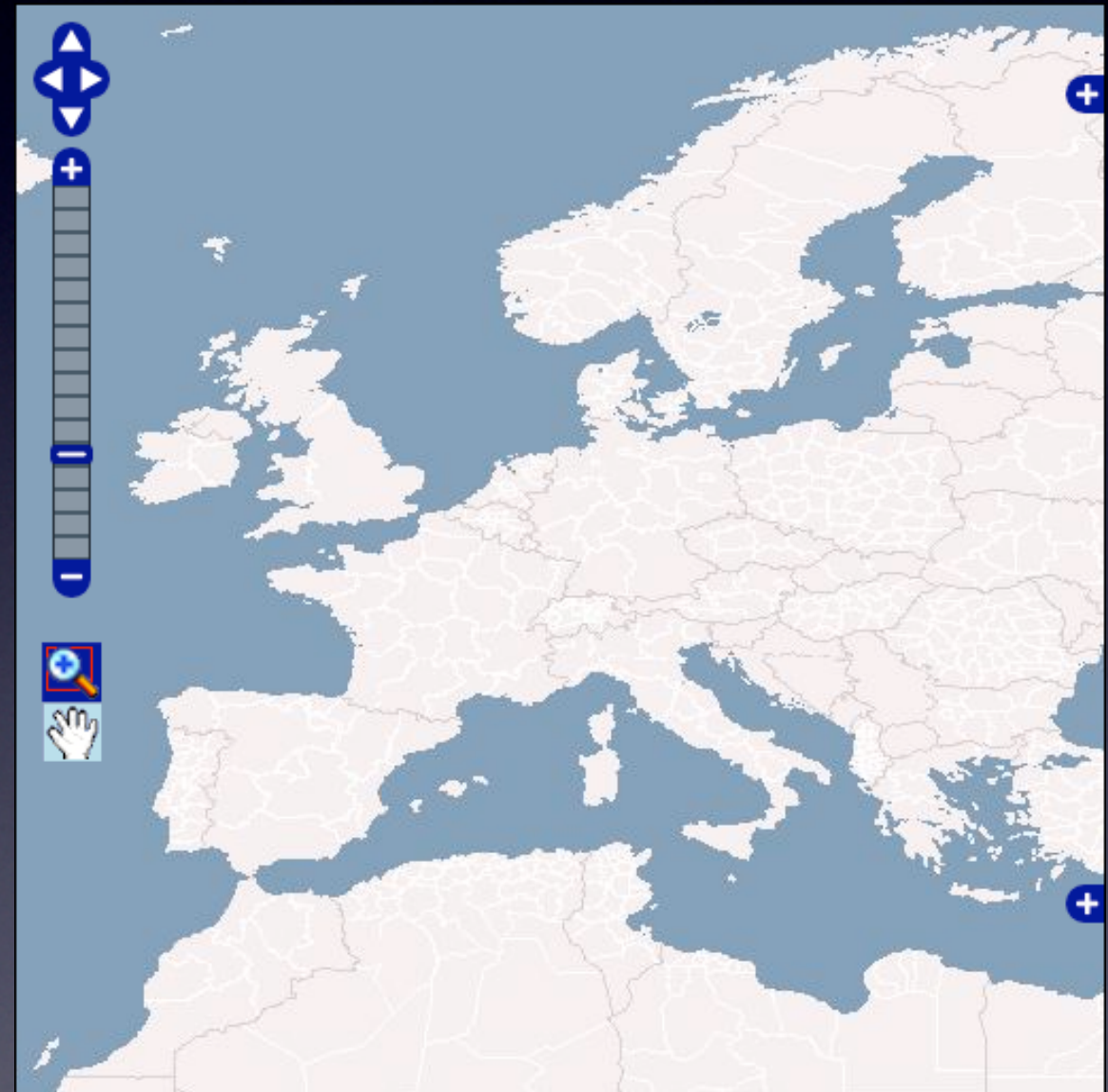
Was ist OpenLayers?

- ✓ API zum Erstellen eines WebMapping-Clients
- ✓ 100% clientseitig (JavaScript)
- ✓ unterstützt OGC-Standards (u.a. WMS, WFS)
- ✓ Kachelung
- ✓ Freie Software (BSD-Lizenz)



Was kann OpenLayers?

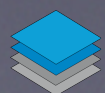
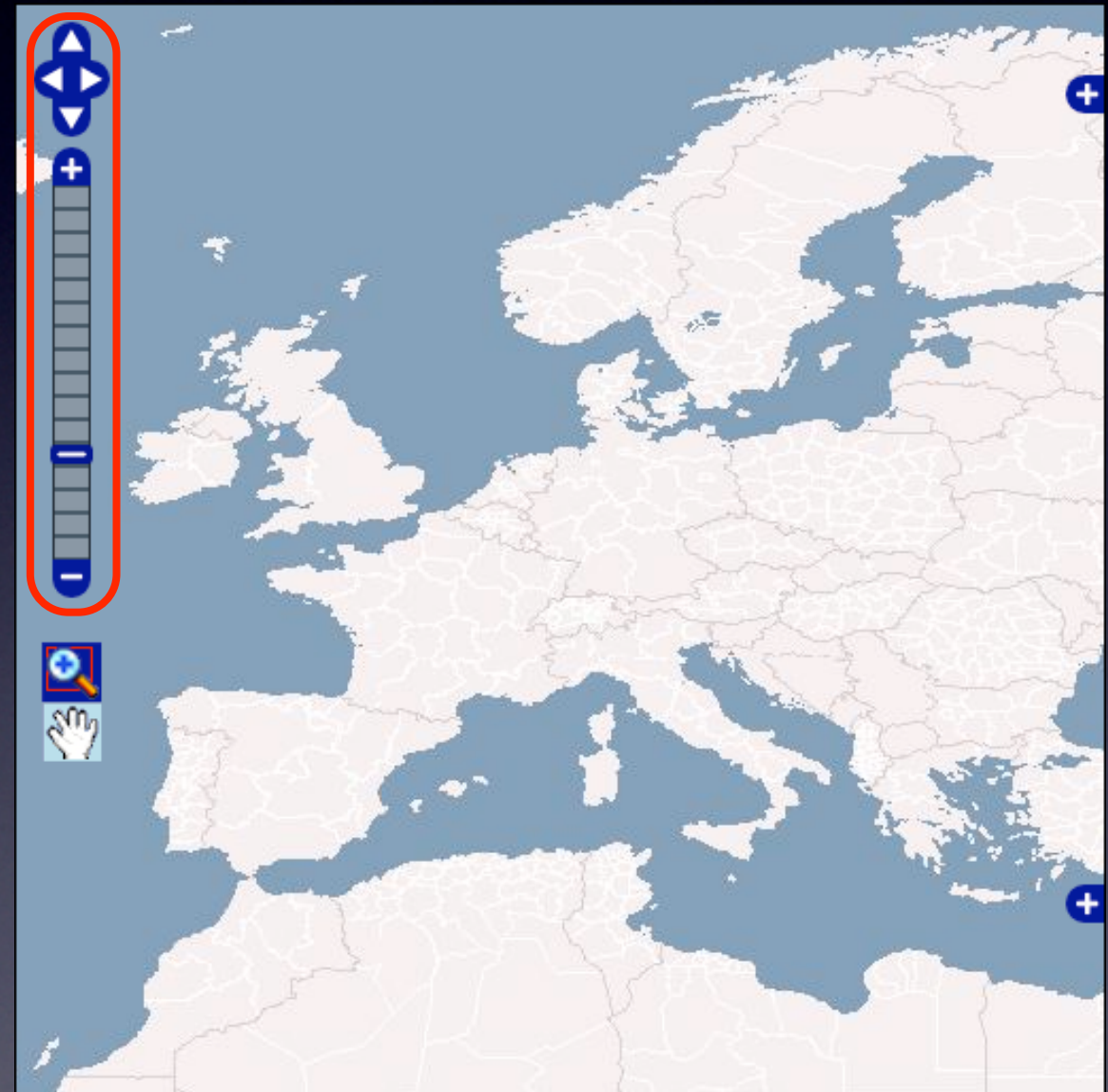
GUI-Komponenten



Was kann OpenLayers?

GUI-Komponenten

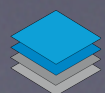
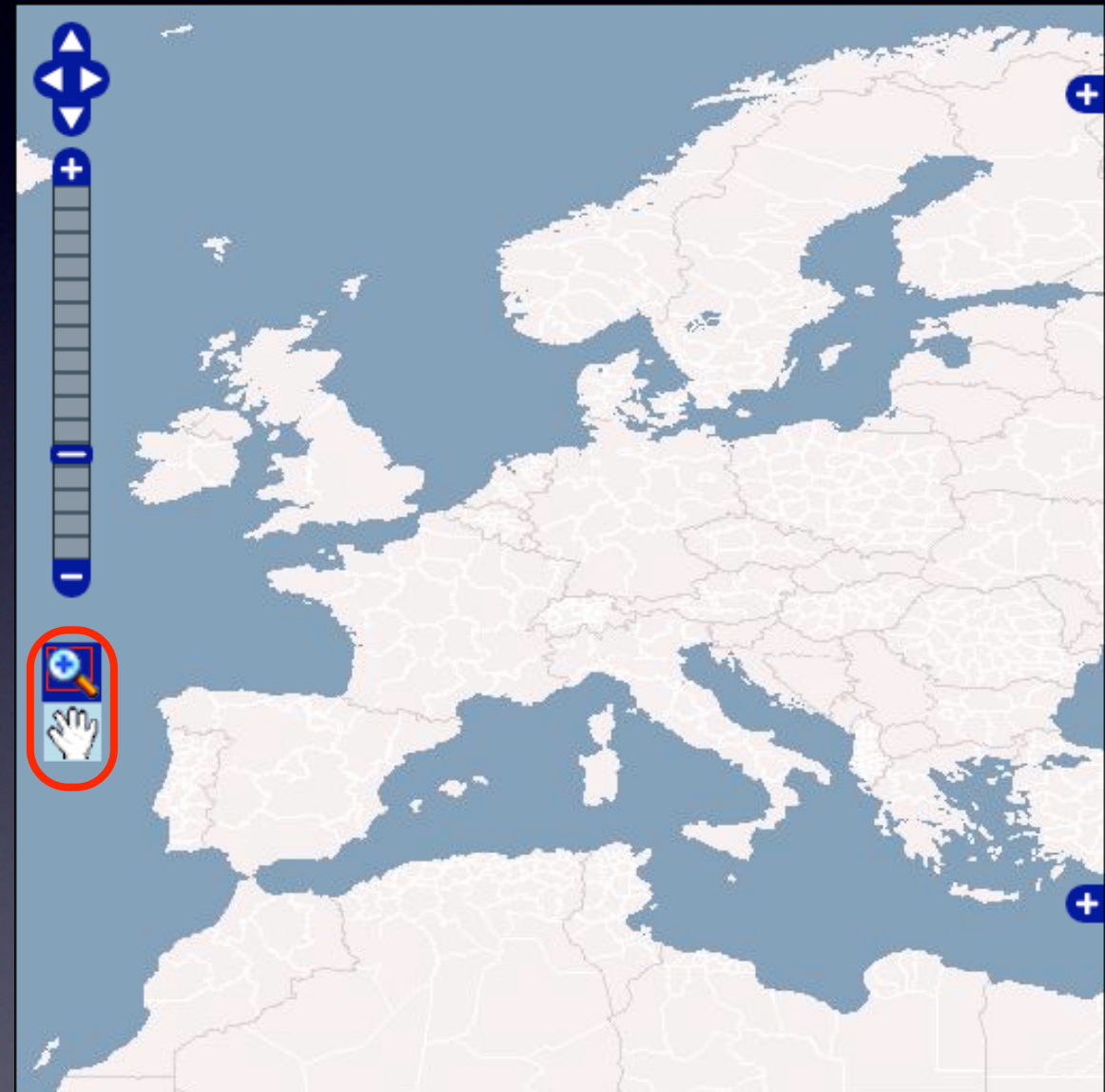
Pan-Zoom-Navigationsleiste



Was kann OpenLayers?

GUI-Komponenten

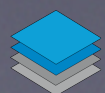
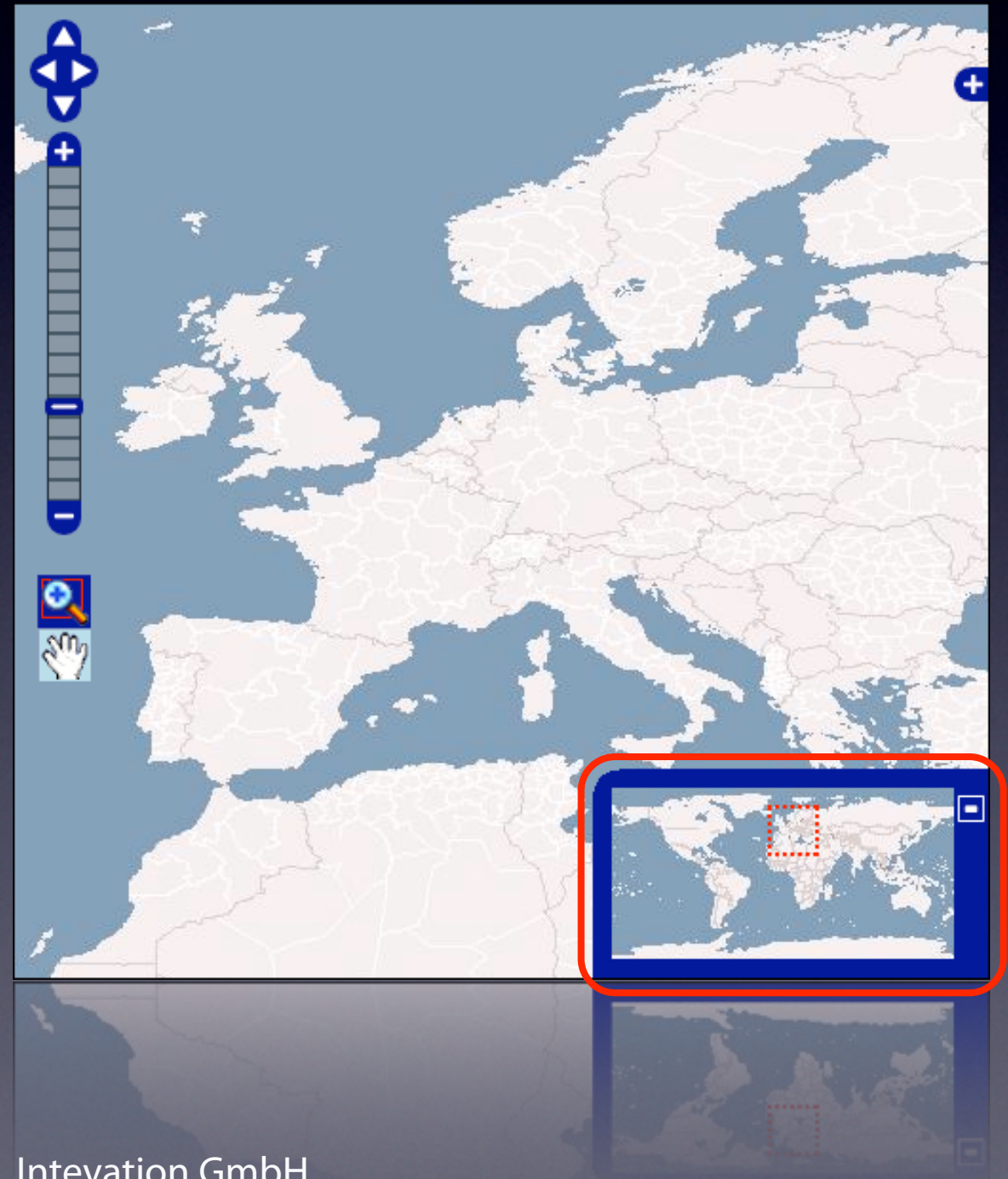
Werkzeugleiste



Was kann OpenLayers?

GUI-Komponenten

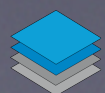
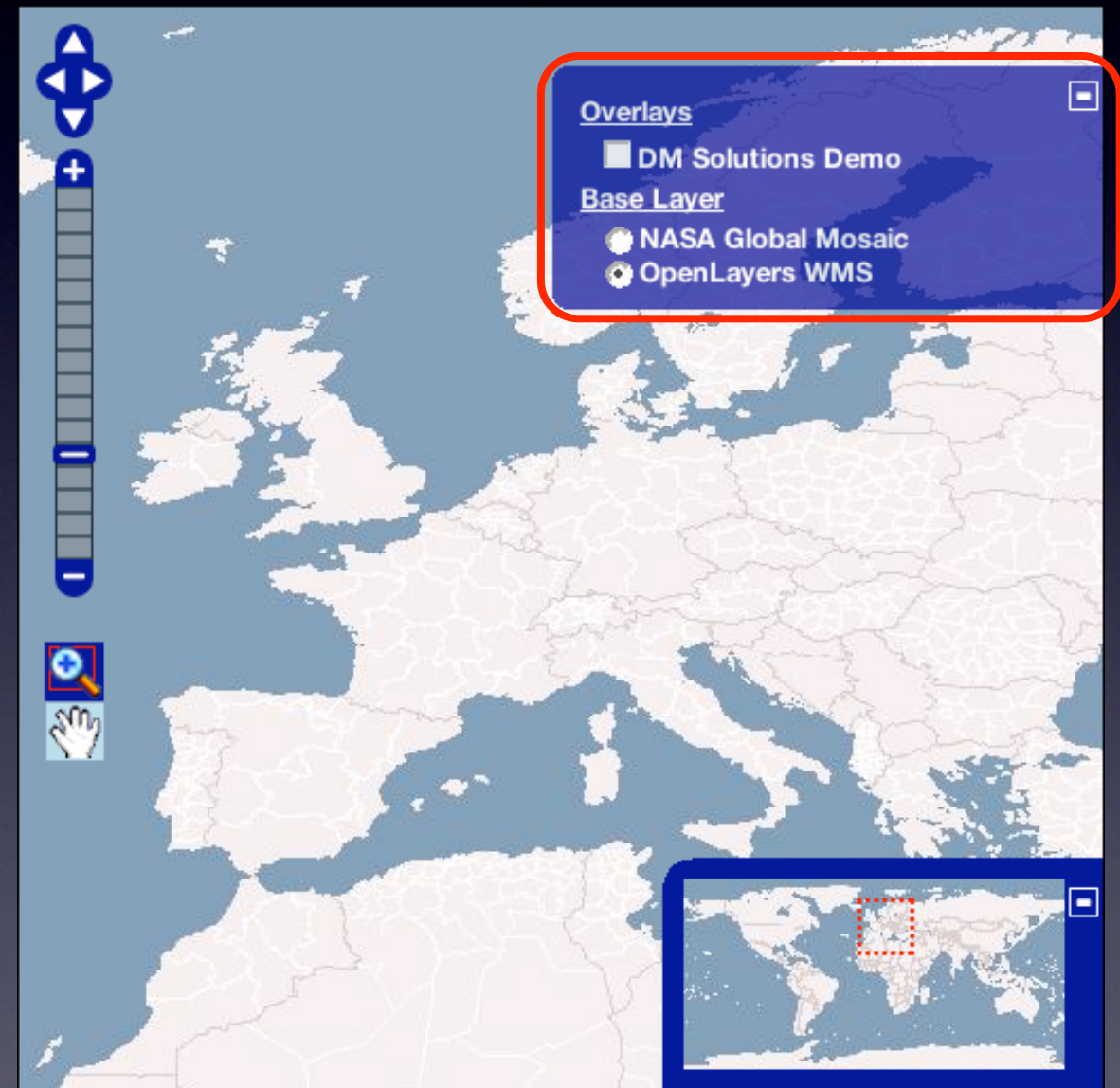
Übersichtskarte



Was kann OpenLayers?

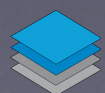
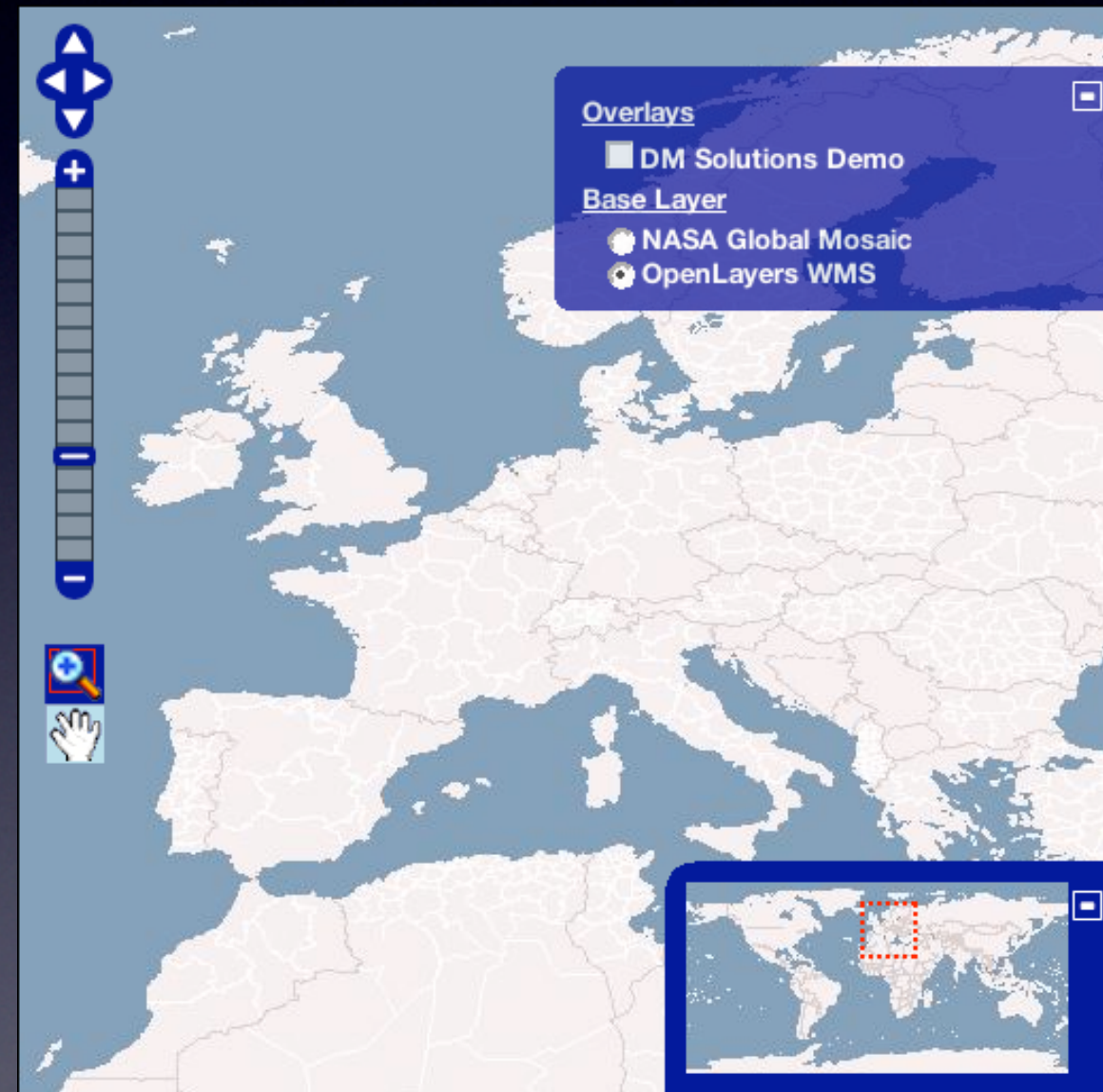
GUI-Komponenten

Ebenenübersicht



Was kann OpenLayers?

GUI-Komponenten

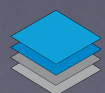


Was kann OpenLayers?

Features

- ✓ WFS-T
- ✓ modulares Bauen der Bibliothek (lite-Version)
- ✓ animated zooming & panning *
- ✓ zooming per Doppelklick, Mausrad, Zoombox, Tastatur
- ✓ Markers & Popups

* Integration für Version 2.6 geplant



Was kann OpenLayers?

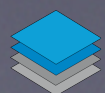
unterstützte Ebenenformate

Frei

- ▶ OGC WMS
- ▶ OGC WFS
- ▶ ka-Map
- ▶ WorldWind
- ▶ GeoRSS
- ▶ GML
- ▶ KML
- ▶ WKT
- ▶ ...

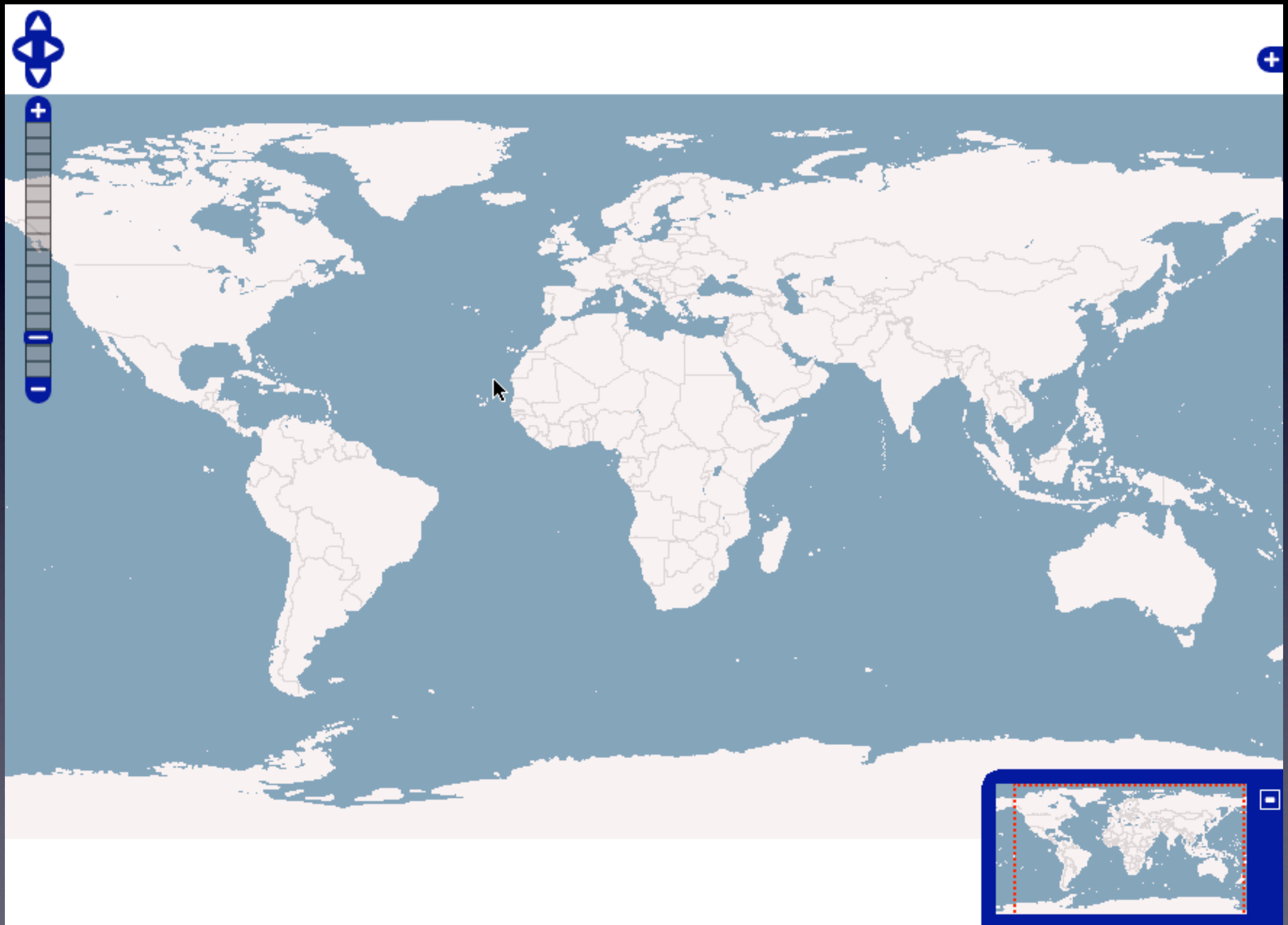
Proprietär

- ▶ Google Maps
- ▶ MSN Virtual Earth
- ▶ Yahoo! Maps
- ▶ Multimap



Demo

panning & zooming

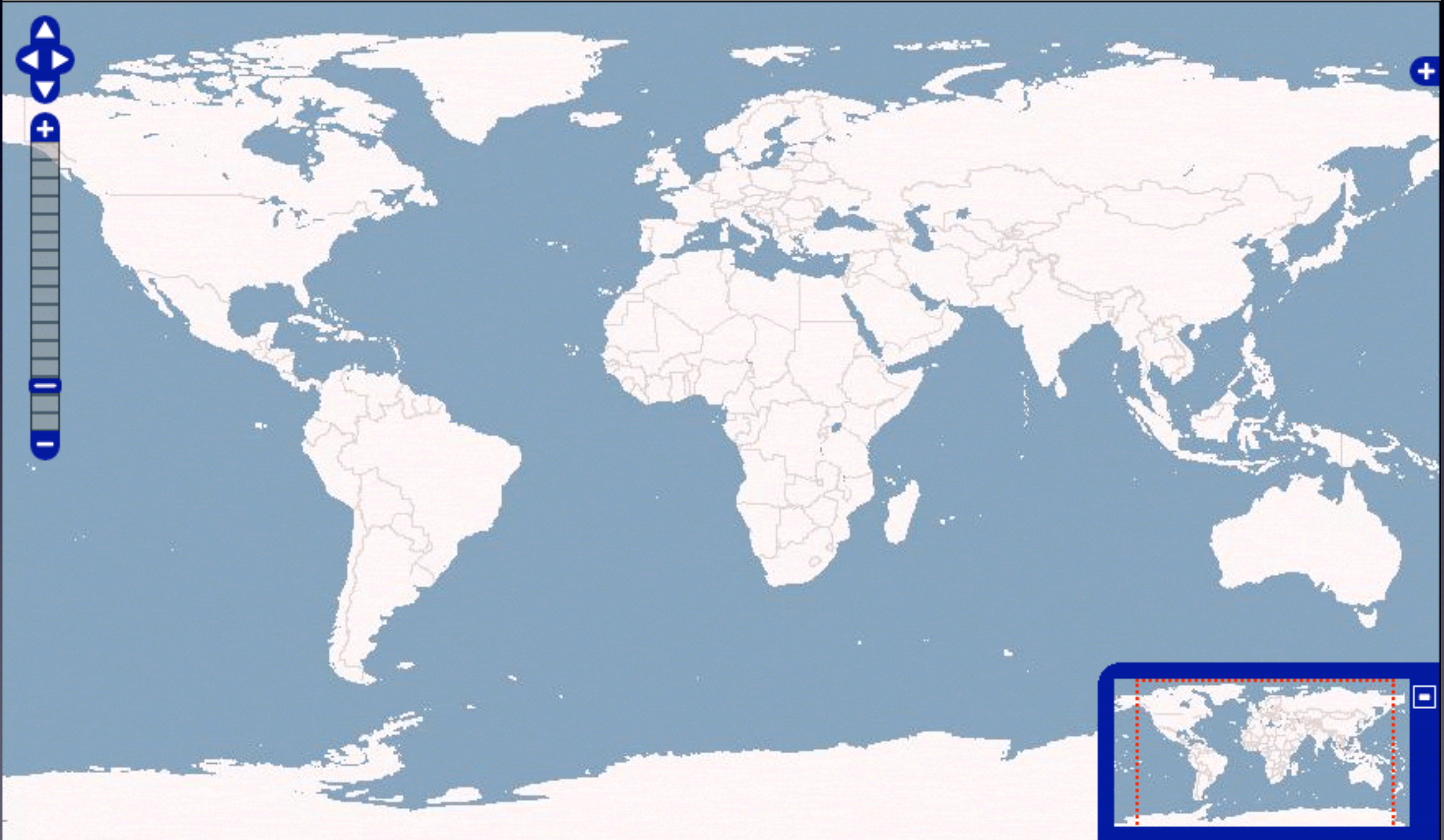


animated panning & zooming



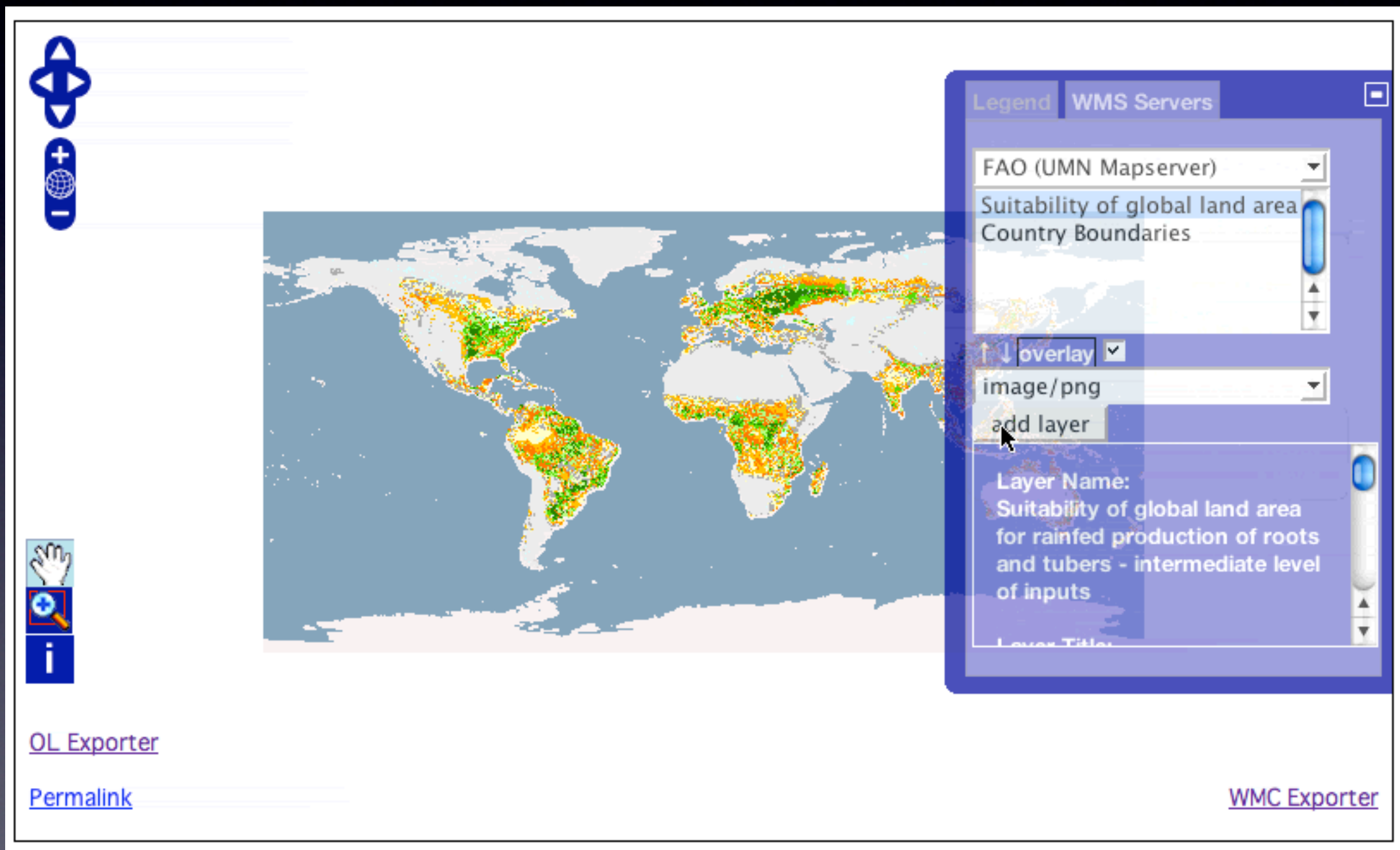
OpenLayers

Demo with animated zooming and panning



animated zooming feature by [Emanuel Schütze](#), [Intevation GmbH](#)

WMS Manager



The screenshot displays the WMS Manager interface. On the left, there is a vertical toolbar with navigation controls: a four-way arrow for panning, a zoom-in (+) and zoom-out (-) button, a globe icon for full-screen, a hand icon for pan, a magnifying glass for zoom, and an information (i) icon. The main area shows a world map with land suitability data overlaid in green and yellow. On the right, a panel titled 'WMS Servers' is open, showing a list of servers. The selected server is 'FAO (UMN Mapserver)' with the layer 'Suitability of global land area Country Boundaries'. Below this, there is a section for 'overlay' with a dropdown menu set to 'image/png' and an 'add layer' button. The 'Layer Name' field contains the text 'Suitability of global land area for rainfed production of roots and tubers - intermediate level of inputs'. At the bottom of the panel, there is a 'Layer Title' field.

[OL Exporter](#)

[Permalink](#)

[WMC Exporter](#)

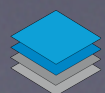
Vector Features



Zusammenfassung

Stärken von OpenLayers

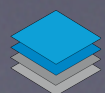
- ✓ Kachelung
- ✓ WFS-T
- ✓ Integration in beliebige Websites
- ✓ objektorientiertes JavaScript
- ✓ lite-Version
- ✓ > 2100 Unittests
- ✓ sehr aktive Community



Zusammenfassung

Ausblick auf Version 2.6

- ✓ animated zooming & panning
- ✓ Pfad- und Flächenmesswerkzeug
- ✓ Maßstabsbalken
- ✓ Zoom-History-Funktion (Redo/Undo)
- ✓ Integration in *ka-Map*, *Mapbender*, *Mapbuilder*, *CartoWeb*

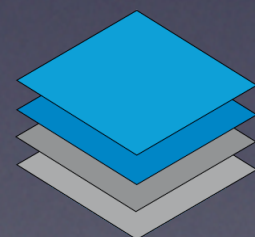


- ▶ Weitergehende Informationen:

<http://openlayers.org>

<http://smartmapbrowsing.org>

Diplomarbeit von Emanuel Schütze



OpenLayers™