

ol-describe-map

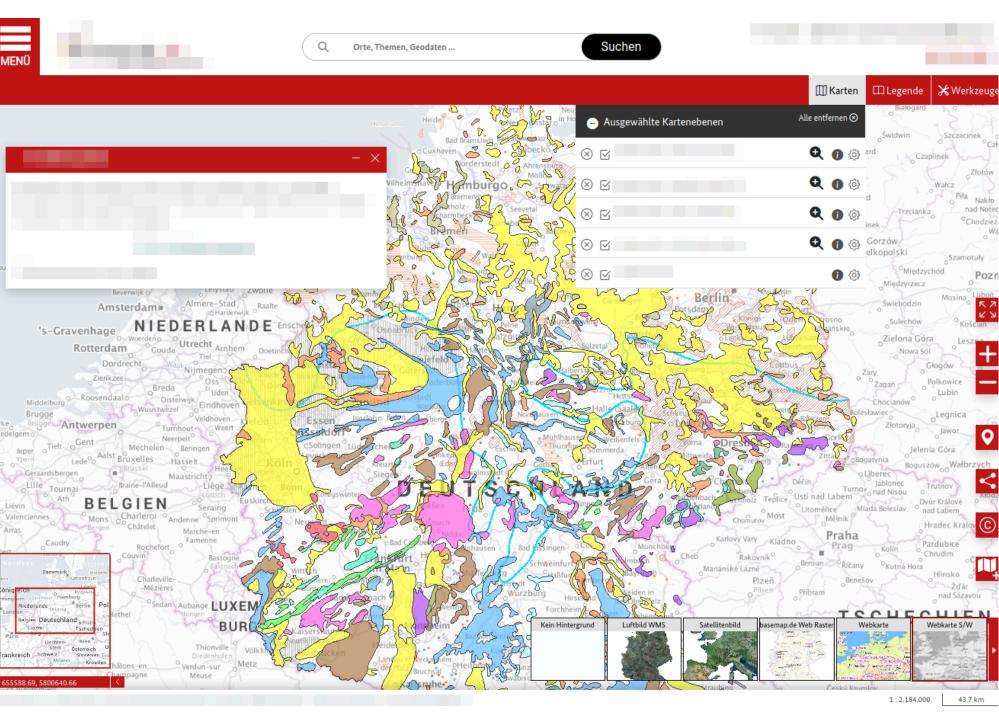
Mehr Web-Accessibility für OpenLayers Karten

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FOSSGIS 2024 | 20. März 2024 | Hamburg

Über was ich sprechen möchte

- Ausgangslage
- ol-describe-map
- Beispiele
- Fazit & Ausblick



Ein zufällig ausgewähltes, vielleicht repräsentatives, gut aussehendes und vielfältiges WebGIS / Geoportal

Ausgangslage

- Kartenanwendungen im Web sind ...
 - visuelle Hingucker,
 - voller Funktionalität, und
 - vielleicht bzgl. Barrierearmut optimierbar?
- Kernaspekte: Visualisierung und Interaktion...
- ...ist damit ein gewisses Maß an Barrieren inhärent?

Kann man etwas generisches entwickeln, was erweiterbar ist, aber auch out-of-the-box die <u>Ally</u>-Situation verbessert?

ol-describe-map

- Mini-Bibliothek für OpenLayers
- Erzeugt eine textuelle Beschreibung einer OpenLayers Karte (View und Layer)
- Setzt ARIA-Attribute in HTML-Element
- Auch für SEO nützlich
- https://github.com/terrestris/ol-describe-map
- https://www.npmjs.com/package/@terrestris/oldescribe-map
- jung, konfigurierbar & erweiterbar



Trivialer geht's kaum

```
// import the describe function
import { describe } from '@terrestris/ol-describe-map';

// create an OpenLayers map (left out for brevity), then:
let desc = await describe(map);

// ...will also update ARIA attributes behind the scenes

// call as often as you think is necessary
```

Nominatim example

This example uses a <u>publicly available Nominatim-instance</u> to describe the map. Please interact with the map below and see how the description changes accordingly. The text that is displayed below the map is also set as <u>aria-description</u> of the map's div-element in order to increase accessibility.

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The map is centered at Cologne, North Rhine-Westphalia, Germany. The lower left of the visible

Vector layer example

This example focusses on the description of a vector layer.

Please interact with the map below and see how the description changes accordingly. The text that is displayed below the map is also set as aria-description of the map's div-element in order to increase accessibility.

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© OpenStreetMap contributors. Cities of Germany

The map contains 2 layers. The first layer is a tile-layer (pre-rendered, tiled images in grids

A more detailed and verbose WMS example

This example focusses on a more verbose description of WMS layers. See also the basic WMS example, please.

The example shows how to use a combination of your own textualDescriber which generates actual HTML from the details gathered for each layer together with manually setting an approriate ARIA property aria-describedby instead of default aria-describedby instead of default aria-description.

Since the focus of this example is on the layers, zooming and panning of the map does not change the description.

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Ausblick

- Feedback echter Nutzer mit z.B. Sehbehinderungen
- aria-description/aria-detail?
- Mehr OGC API Support
- Nutzung in Projekten, gerne auch Euren
- Feedback, Ideen, Kritik usw.? Gerne mitmachen!

Danke!

Fragen oder Anmerkungen?

... bitte am terrestris Stand :-)

Impressum

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