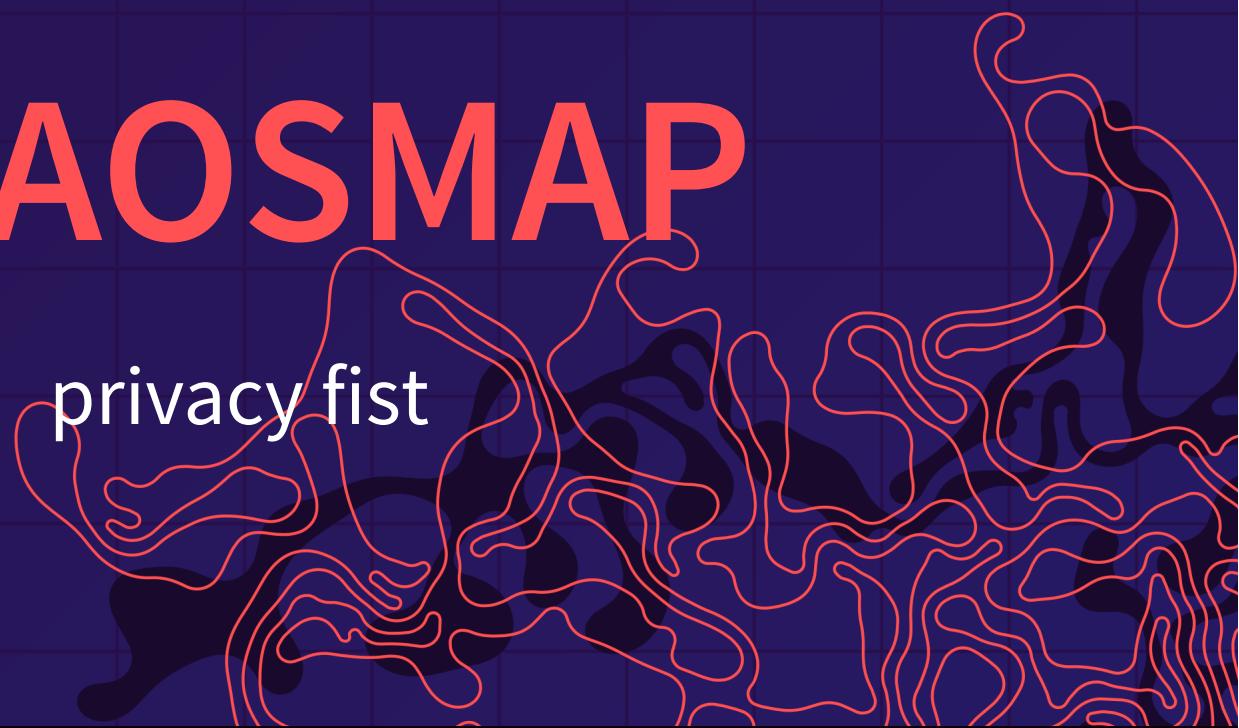


CREATE A CHAOSMAP

privacy fist



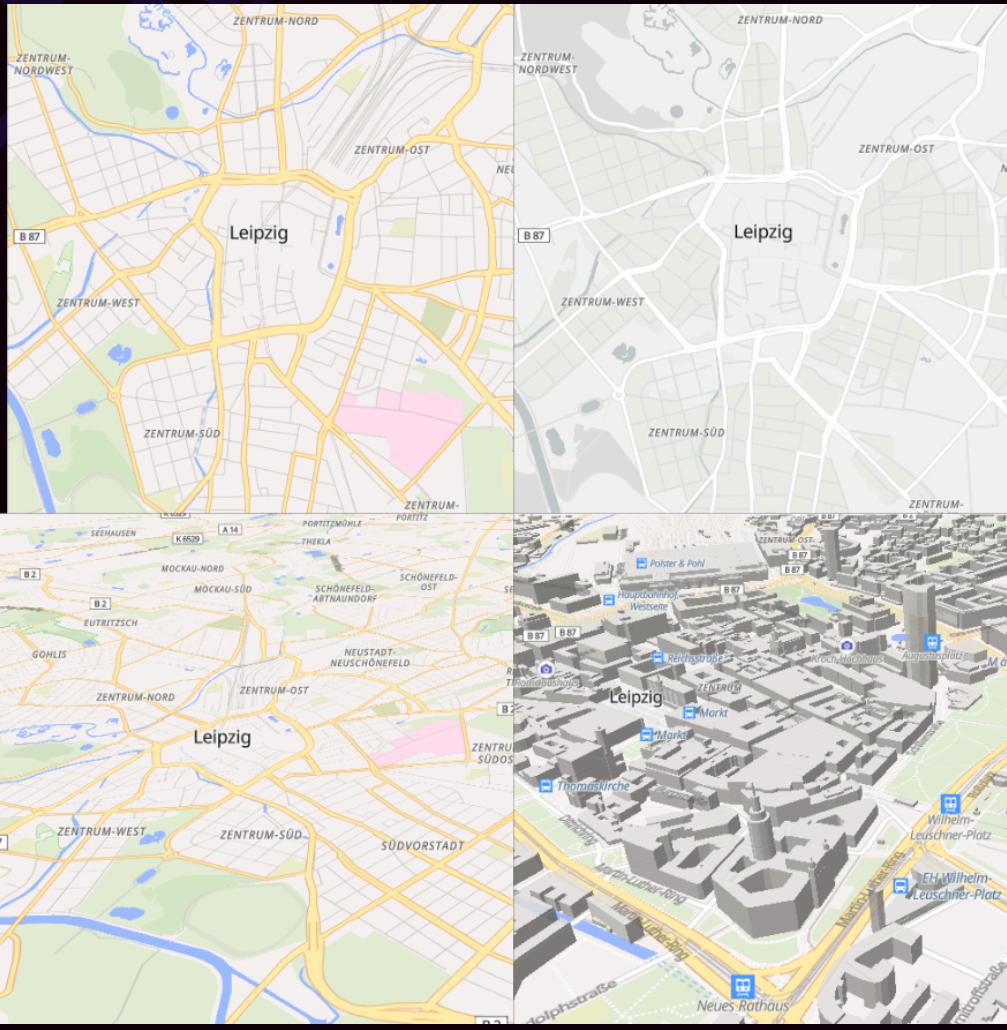
- Map integration on website
- custom styled map
- display third party api data
- **without dataprotection layer!**

THE MAP

OPENFREEMAP.ORG

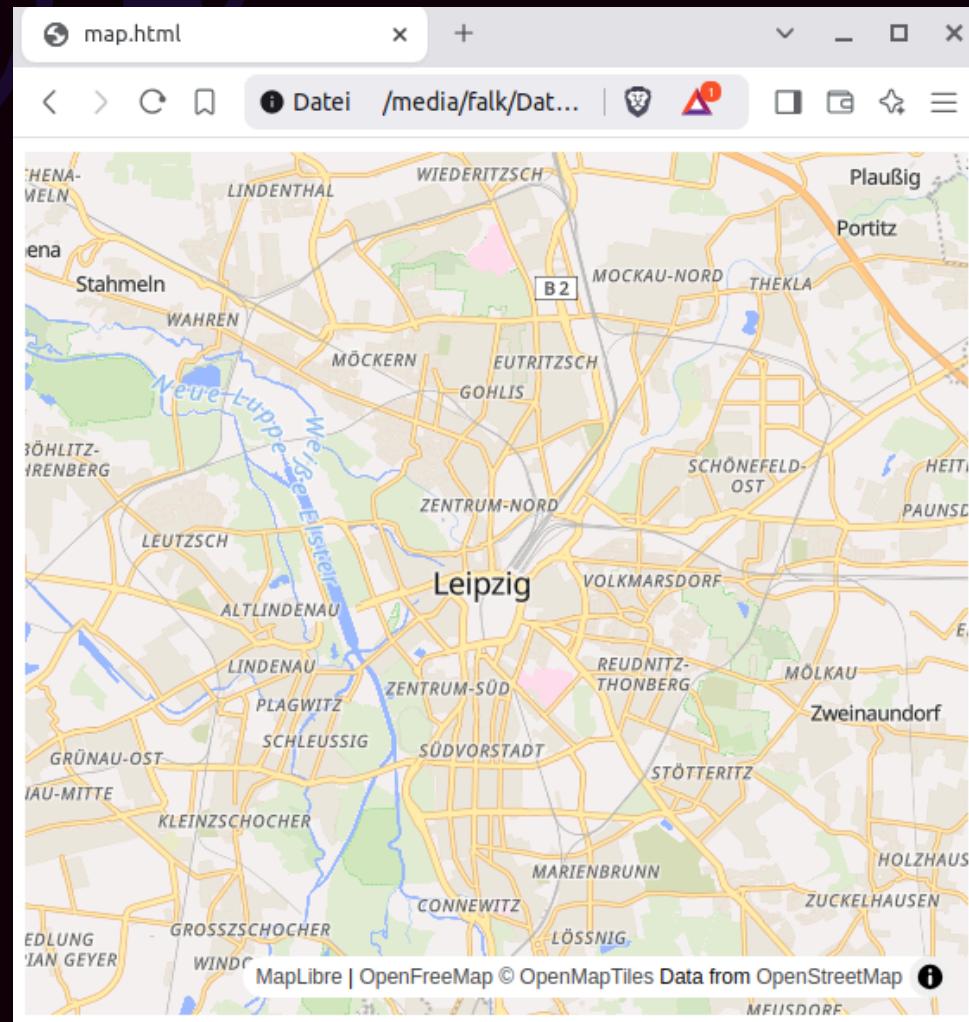


- open-source
- no limits
- no registration, no API keys
- commercial usage allowed
- provide weekly full planet



```
<script src="https://unpkg.com/maplibre-gl/dist/maplibre-gl.js">
<link href="https://unpkg.com/maplibre-gl/dist/maplibre-gl.css"
```

```
<div id="map" style="width: 100%; height: 500px"></div>
<script>
  const map = new maplibregl.Map({
    style: 'https://tiles.openfreemap.org/styles/liberty',
    center: [12.377694794, 51.34326162],
    zoom: 11,
    container: 'map',
  })
</script>
```



CUSTOMIZE THE MAP

Maputnik v1.7.0

Open Export Data Sources Style Settings View Map Help Take the Maputnik Survey

Layers Expand Add Layer

- background
- park
- water
- landcover
- landuse_residential
- landcover_wood
- waterway
- building
- tunnel
- aeroway
- road
- highway
- / highway_path
- / highway_minor
- / highway_major_cas...
- / highway_major_inner
- / highway_major_sub...
- / highway_motorway...
- / highway_motorway...
- / highway_motorway...
- railway
- highway
- boundary
- waterway_line_label
- water
- highway
- T road_shield_us
- T airport
- label

Paint properties

Opacity: ["interpolate", ["exponential", 0.6], ["zoom"], 8, 0.8, 9, 0.6]]

Color:

Antialias:

Outline color:

Pattern:

Translate: 0

Translate anchor: Map Viewport

JSON Editor

```

1 {
2   "id": "landuse_residential",
3   "type": "fill",
4   "source": "openmaptiles",
5   "source-layer": "landuse",
6   "maxzoom": 16,
7   "filter": [
8     "all",
9     [
10       "match",
11       ["geometry-type"],
12       ["MultiPolygon", "Polygon"],
13       true,
14       false
15     ],

```

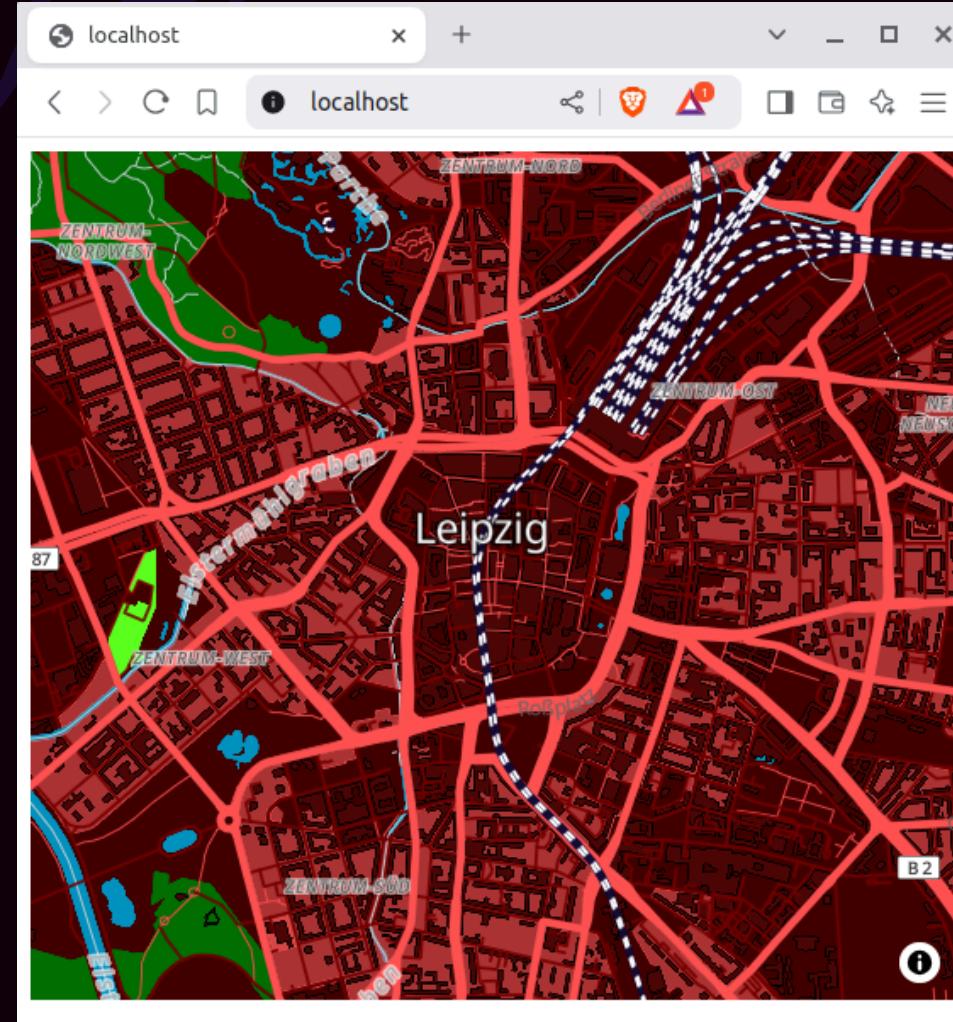
<https://maputnik.github.io/editor?style=https://tiles.openfreemap.org/styles/positron>

MAPUTNIK

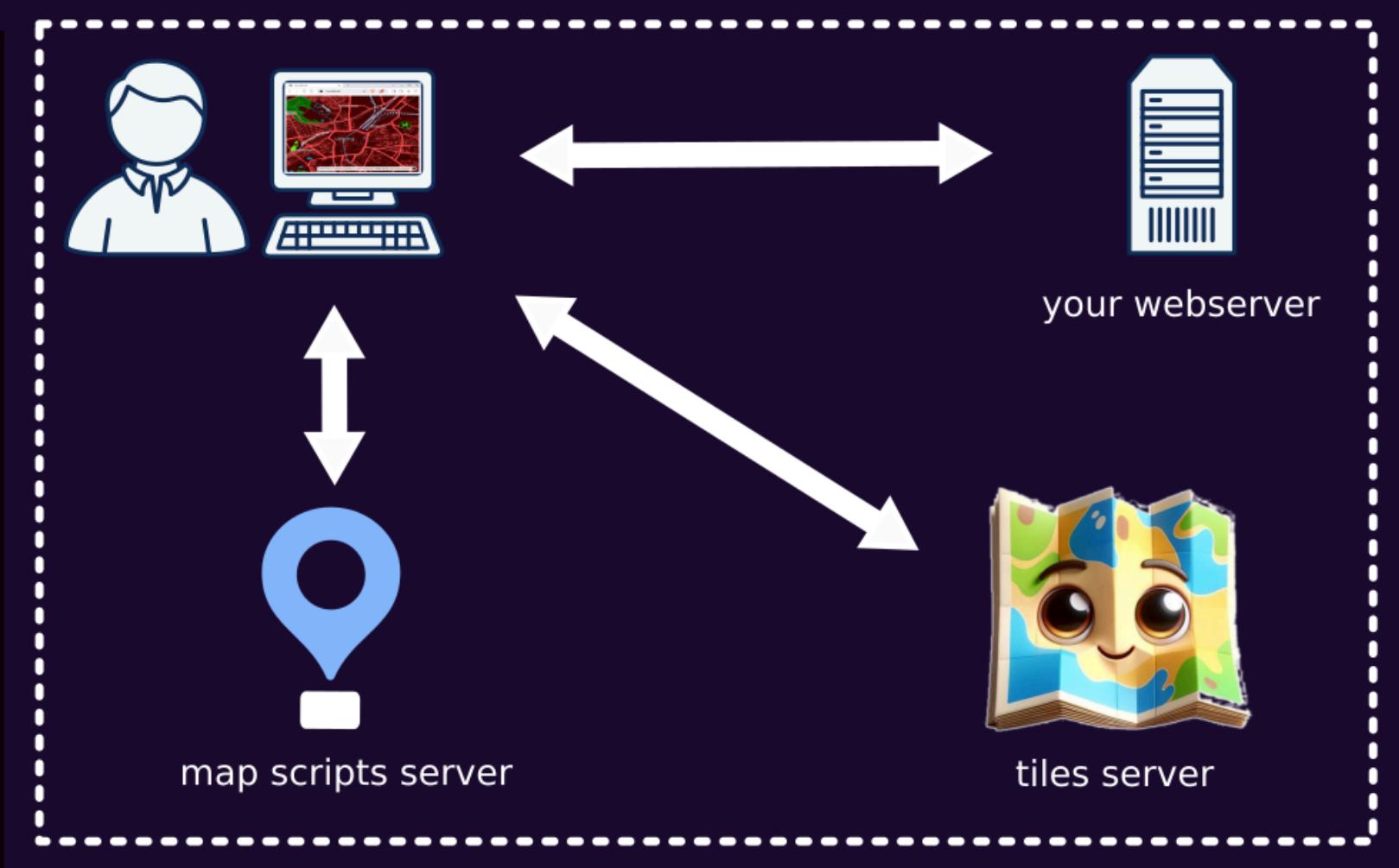
- load default style
- streets, labels, wood, buildings, water, ...
- visibility by zoomlevel, color, size, ...
- style by filter (e.g. name, zoom level)
- export nur style json file



```
1 const map = new maplibregl.Map({  
2   style: './style.json',  
3   center: [12.377694794, 51.34326162],  
4   zoom: 11,  
5   container: 'map',  
6 })
```

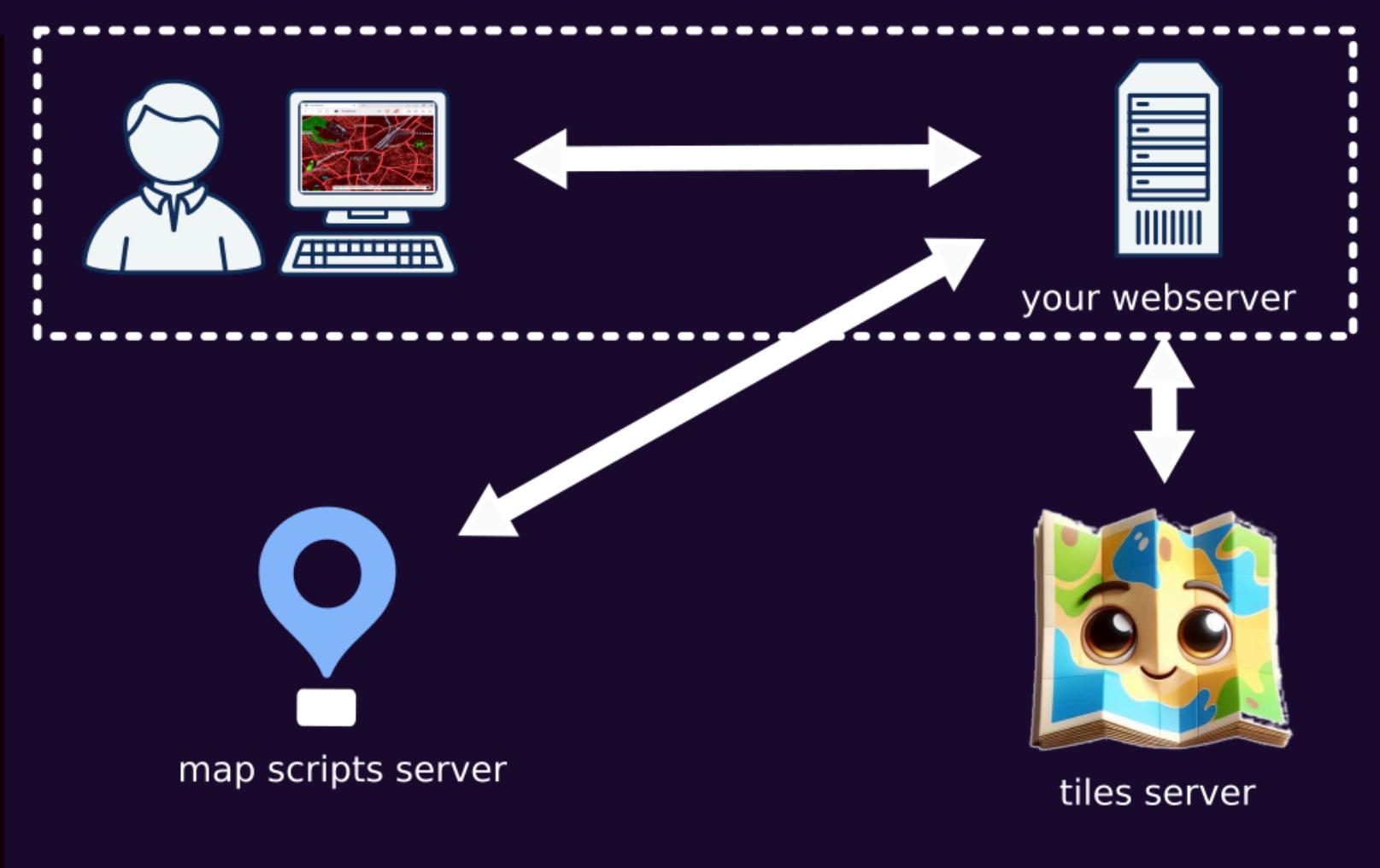


THE PROXY



ACTUAL STATE

- client request resources on different servers
- third parties receive request, can send cookies, use server logging of IP, ...
- need dataprivity layer on site



WITH PROXY

- all requests to your server
- server request third pary resources and deliver it to client
- no need dataprivity layer on site
- can use cache



/PROXY/INDEX.PHP

```
use FalkM\Proxy\Proxy;
require_once('vendor/autoload.php');

$config = ["proxies" => [
    "tiles" => [
        "url" => "https://tiles.openfreemap.org"
    ],
    "maplibre-gl" => [
        "url" => "https://unpkg.com/maplibre-gl@5.1."
    ]
]];
(new Proxy($config))->run();
```

```
<script src="./proxy/maplibre-gl/dist/maplibre-gl.js"></script>
<link href="./proxy/maplibre-gl/dist/maplibre-gl.css" rel="sty
```

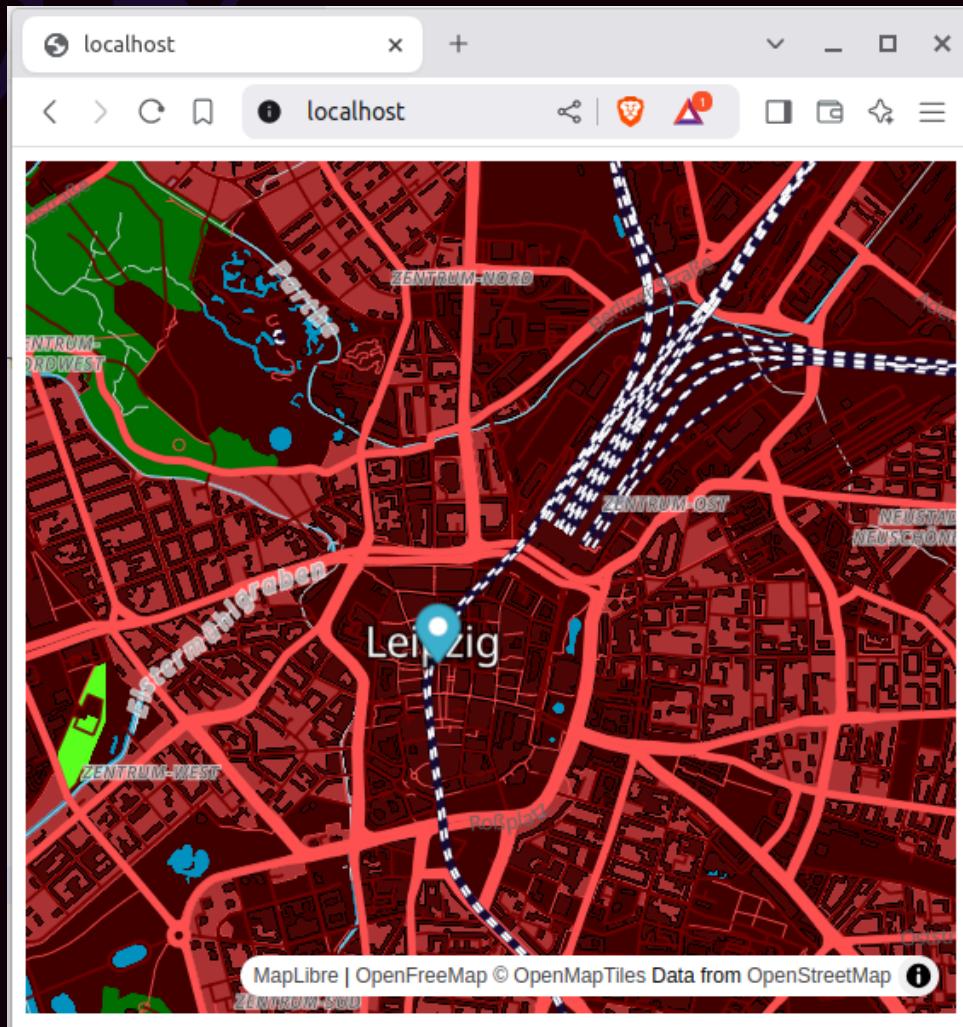
```
1 <div id="map" style="width: 100%; height: 500px"></div>
2 <script>
3   const map = new maplibregl.Map({
4     style: './proxy/tiles/styles/liberty',
5     center: [12.377694794, 51.34326162],
6     zoom: 11,
7     container: 'map',
8   })
9 </script>
```

- needs .htaccess or nginx rewrite for /proxy/*
- proxy replace dest-urls with proxy-urls in json, html and js files
- full example with caching: github.com/falkm/proxy/tree/master/demo

EXTEND THE MAP

ADD STANDARD MARKER

```
new maplibregl.Marker({color: "#3FB1CE"})
.setLngLat([12.375019474, 51.34091034])
.setPopup(new maplibregl.Popup()).setHTML("<h1>Hello World!</h1>")
.addTo(map);
```



MORE MARKER

```
const points = [
{
  type: "Feature",
  geometry: {
    type: "Point",
    coordinates: [12.396221, 51.3464008],
  },
},
...
];
```

ADD SOURCE TO MAP

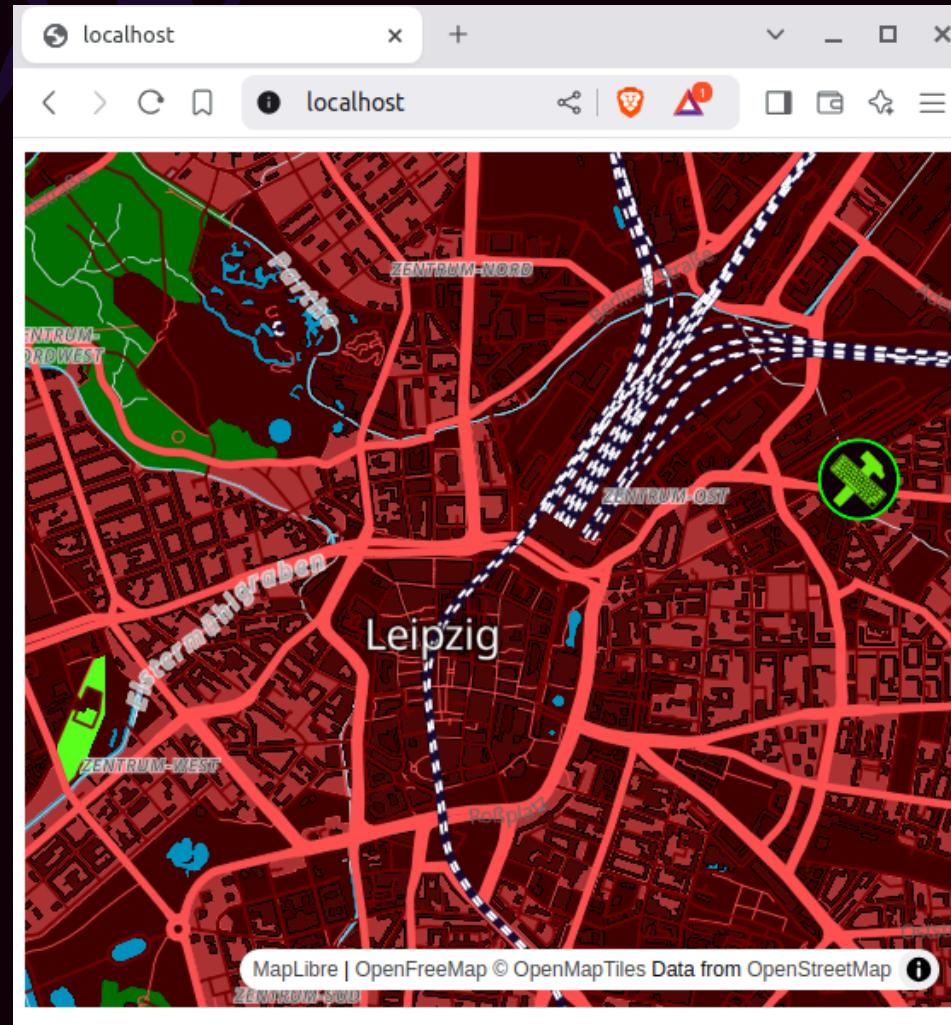
```
map.addSource("points", {  
  type: "geojson",  
  data: {  
    type: "FeatureCollection",  
    features: points,  
  }  
});
```

ADD CUSTOM MARKER FROM IMAGE

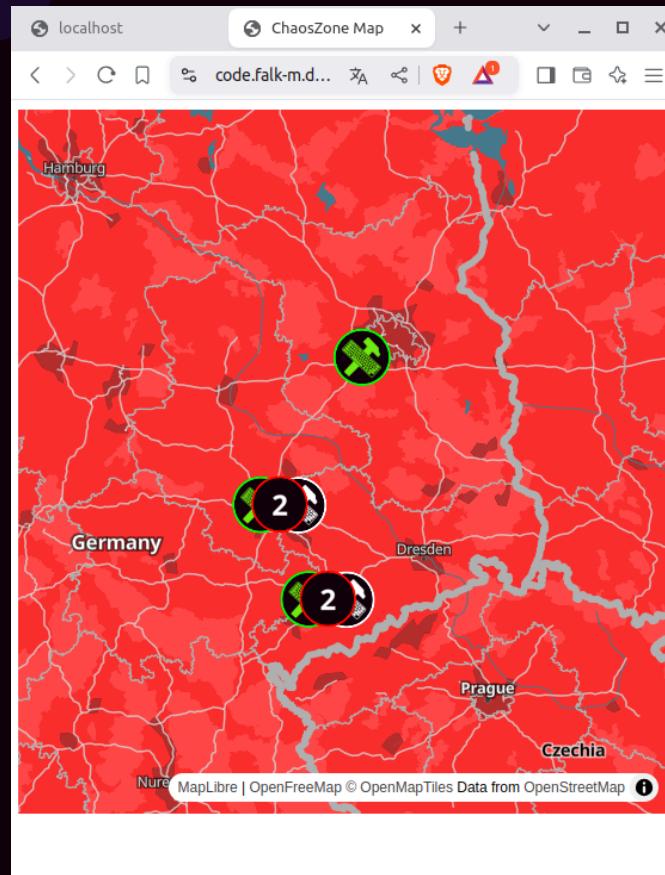
```
map
  .loadImage("./marker.png")
  .then((image) => map.addImage("custom-marker", image.data));
```

DISPLAY POINTS WITH CUSTOM MARKER

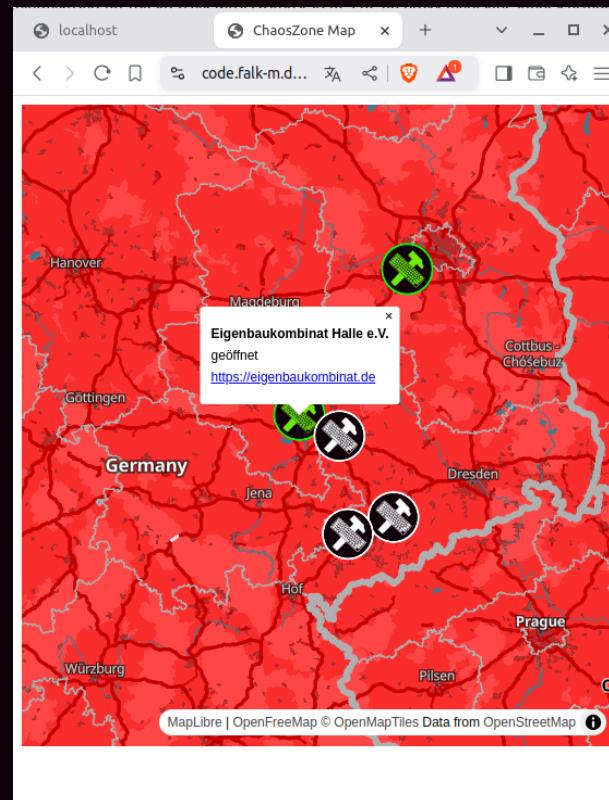
```
map.addLayer({  
  id: "symbols",  
  type: "symbol",  
  source: "points",  
  layout: {  
    "icon-image": "custom-marker",  
    "icon-size": 0.4  
  },  
});
```



CLUSTER MARKER



POPUPS



SPACE API

- spaceapi.io
- information about hackerspaces, makerspaces, fablabs, chaostreffs
- status, url, name, address, projects, calendar, blog,
- ...
- SpaceAPI Schema
- Directory: list of URLs

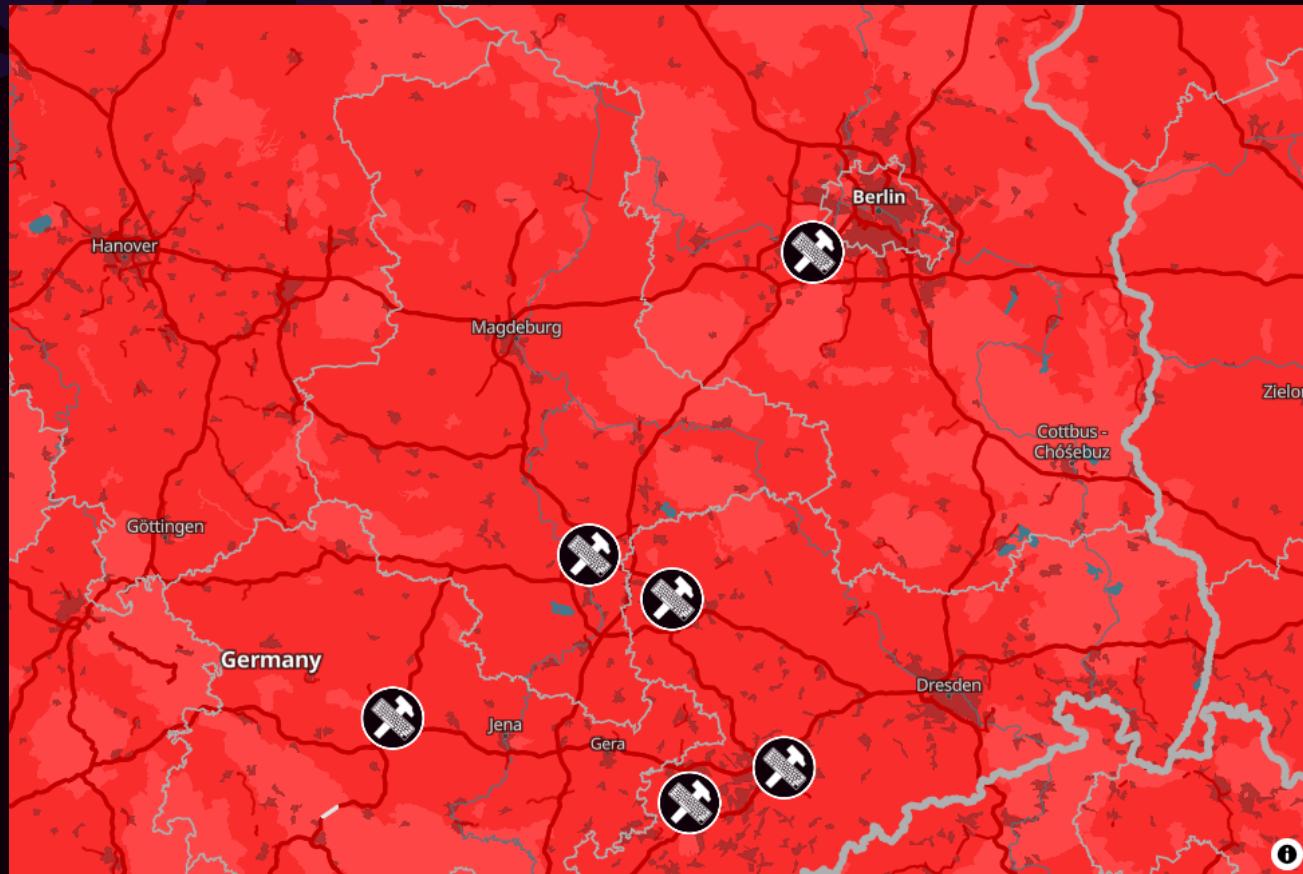
```
1  {
2      "api_compatibility": [
3          "15"
4      ],
5      "space": "Eigenbaukombinat Halle e.V.",
6      "logo": "https://eigenbaukombinat.de/ebklogo.png",
7      "url": "https://eigenbaukombinat.de",
8      "location": {
9          "address": "Landsberger Stra\u00dfe 3, 06112 Halle (Saale), Germany",
10         "lon": 11.99221,
11         "lat": 51.47996
12     },
13     "feeds": {
14         "calendar": {
15             "type": "ical"
```

```
10     "con": "22705222",
11     "lat":51.47996
12   },
13   "feeds":{
14     "calendar":{
15       "type":"ical",
16       "url":"https://kalender.eigenbaukombinat.de/public/public.ics"
17     },
18     "blog":{
19       "type":"rss",
20       "url":"https://eigenbaukombinat.de/index.xml"
21     }
22   },
23   "contact":{
24     "email":"kontakt@eigenbaukombinat.de",
25     "link": "https://eigenbaukombinat.de/contact.html"
```

```
    ],
    "blog": {
        "type": "rss",
        "url": "https://eigenbaukombinat.de/index.xml"
    }
},
"contact": {
    "email": "kontakt@eigenbaukombinat.de",
    "issue_mail": "kontakt@eigenbaukombinat.de"
},
"state": {
    "open": false
},
"ext_ccc": "chaostreff",
"ext_habitat": "chaoszone"
}
```

```
18     "blog":{  
19         "type":"rss",  
20         "url":"https://eigenbaukombinat.de/index.xml"  
21     }  
22 },  
23 "contact":{  
24     "email":"kontakt@eigenbaukombinat.de",  
25     "issue_mail":"kontakt@eigenbaukombinat.de"  
26 },  
27 "state":{  
28     "open":false  
29 },  
30     "ext_ccc":"chaostreff",  
31     "ext_habitat":"chaoszone"  
32 }
```

code.falk-m.de/cz/ (later on <https://chaoszone.cz/>)



- openfreemap.org/quick_start/
- maputnik.github.io/editor
- maplibre.org/maplibre-gl-js/docs/examples/
- maplibre.org/maplibre-gl-js/docs/API/

complete example:

github.com/falk-m/chaoszone-map



THANKS

print view

