Geonovum

OGC API Features

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GEONOVUM

OGC API Features standaard

- T.b.v. Web-service voor direct opvragen en aanleveren van features
- Gebaseerd op Rest, Json en html
- Eén van de eerste OGC-API-standaarden: 2019-09-09
- http://www.opengis.net/doc/IS/ogcapi-features-1/1.0.1
- [Handreiking](#) Geonovum

- Gebaseerd op meerdere deelstandaarden

OGC API Features deelstandaarden

- Part 1 Core (released)
- Part 2 CRS (released)
- Part 3 Filtering (released)
- Part 4 Create, Replace, Update and Delete (OAB)
- Part 5 Schemas (OAB)
- Part 6 Property Selection (in development)
- Part 7 Geometry Simplification (in development)
- Part 8 t/m 10 for special searching and sorting (concept)

See for drafts: https://docs.ogc.org/DRAFTS/

Part 1 Core

- Landing page
- API definition
- Conformances
- Encodings
- CRS
- Links
- parameters

Part 2 CRS

- CRS identifier list global en local

- Storage CRS

- Parameters
  - crs
  - bbox-crs

- Content-CRS in response document

- Allemaal ook in GEO-module van API-design rules

Part 3 Filtering

- Queryables (voor elke collection)
- Parameters:
  - Filter (vb 'property=value')
  - Filter-lang (vb language: CQL2 json or CQL2 text)
  - Filter-crs (CRS van input features t.b.v. filtering)
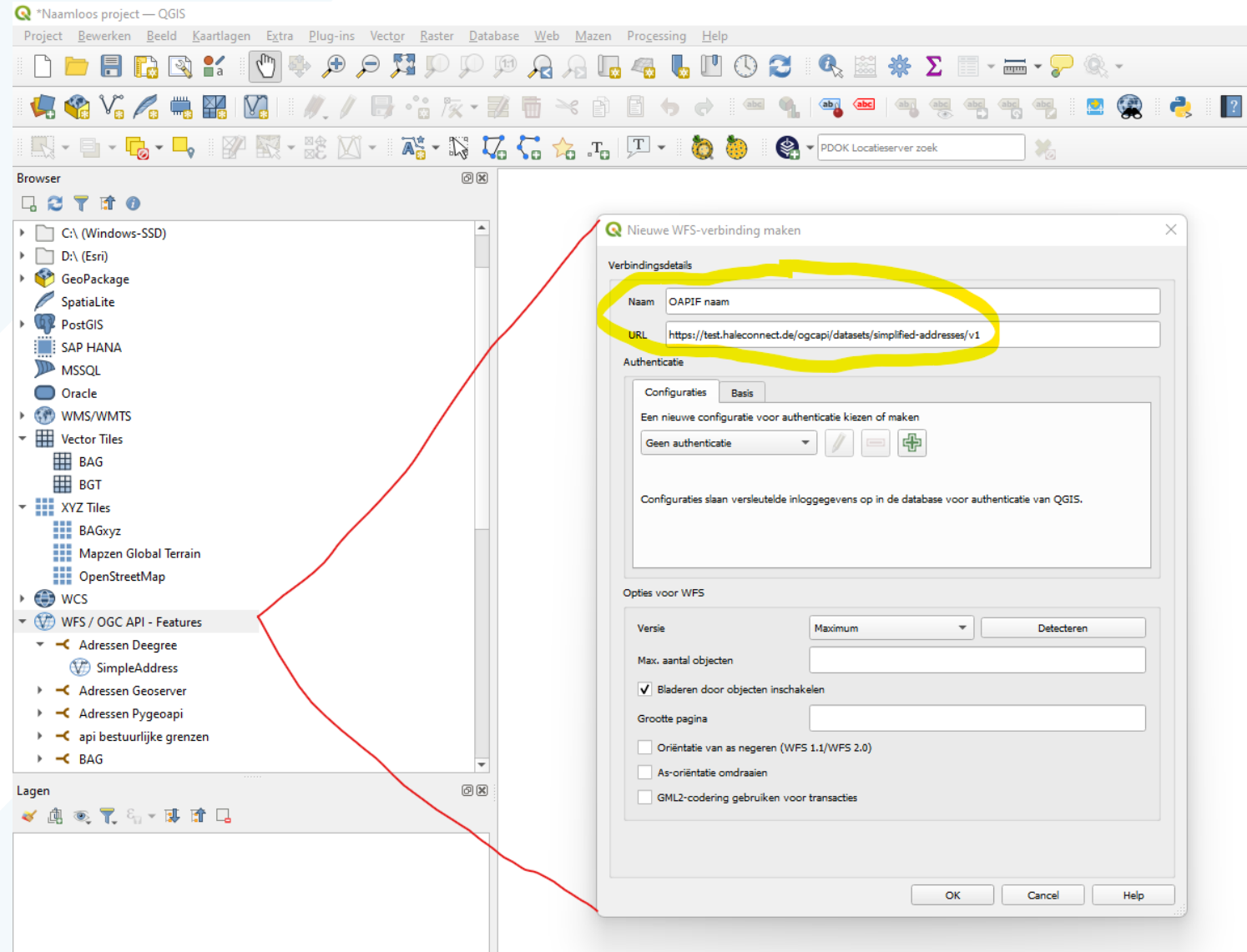- CQL2 Functions

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OGC API Features structuur

- Landing page   https://api.pdok.nl/lv/bgt/ogc/v1
- OAS   https://api.pdok.nl/lv/bgt/ogc/v1/api
- Collections   https://api.pdok.nl/lv/bgt/ogc/v1/collections
- Collection-id   https://api.pdok.nl/lv/bgt/ogc/v1/collections/bak
- Items   https://api.pdok.nl/lv/bgt/ogc/v1/collections/bak/items
- Item-id: https://api.pdok.nl/lv/bgt/ogc/v1/collections/bak/items/5d394ef5-6a5d-5011-a729-29def1c51dd9
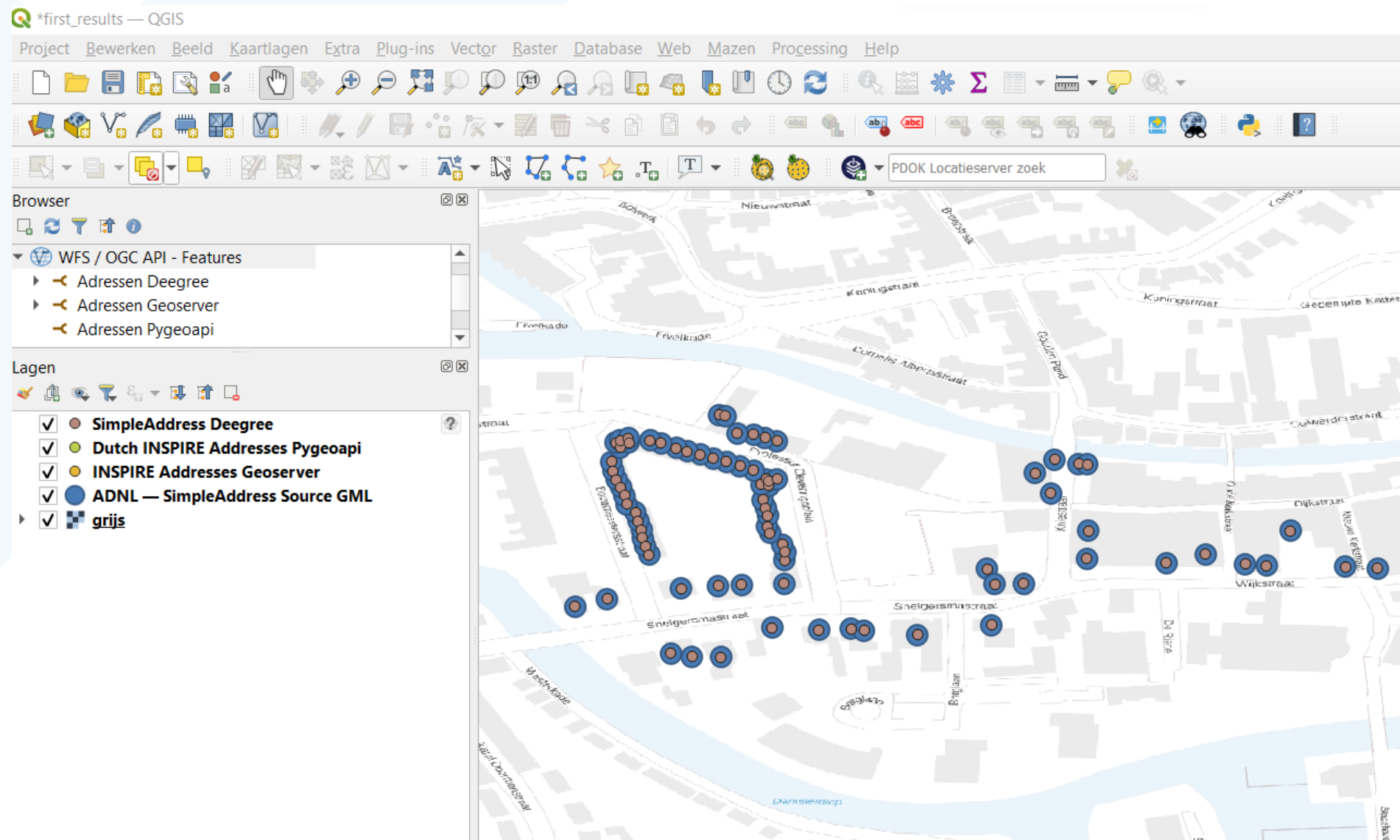
Parameters:

- ?f=json of ?f=html
- ?crs vb: ?crs=http://www.opengis.net/def/crs/EPSG/0/28992
- ?bbox vb: ?bbox=160.6,-55.95,-170,-25.89
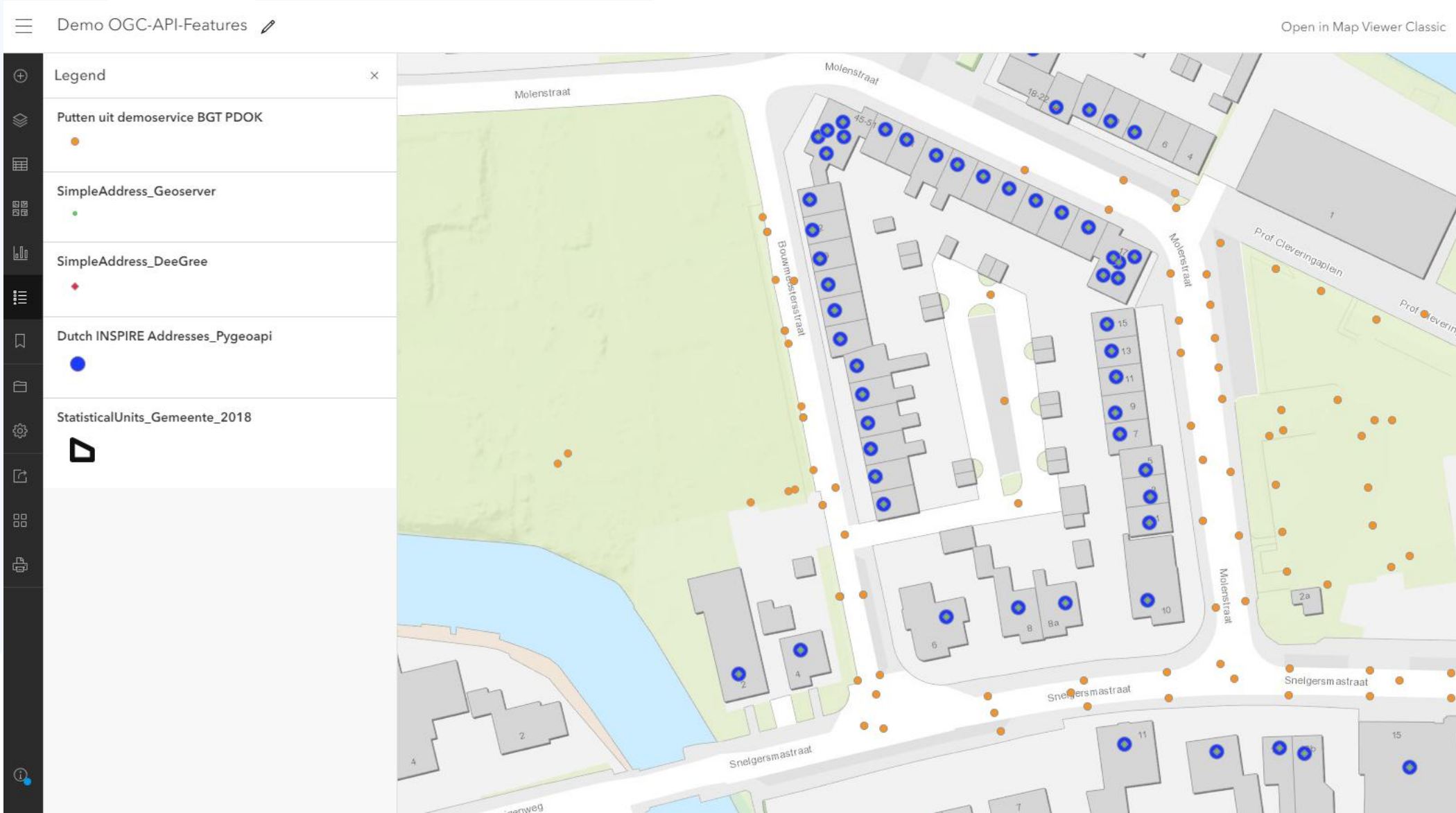
Gebruik in Qgis

Demo OGC-API-Features in QGIS

Demo OGC-API-features in ArcGIS Online
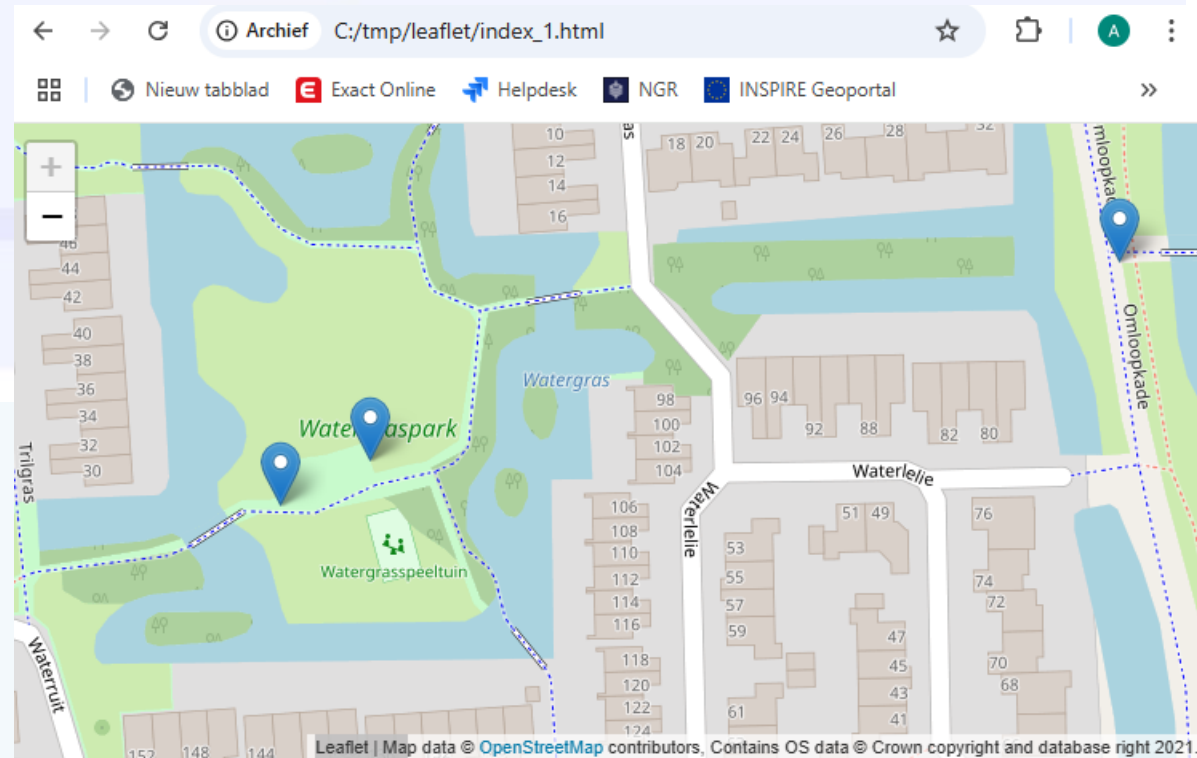
Leaflet, Openlayers, Maplibre


```
<script>
    var map = L.map('map').setView([52.031, 4.7156], 17);

    L.tileLayer('https://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png', {
        attribution: 'Map data &copy; <a href="https://www.openstreetmap.org/copyright">OpenStreetMap</a> contributors, ' +
            'Contains OS data &copy; Crown copyright and database right 2021.'
    }).addTo(map);

    (async () => {
        const BGTbak = await fetch('https://api.pdok.nl/lv/bgt/ogc/v1/collections/bak/items?f=json&bbox=4.710,52.028,4.720,52.035', {
            headers: {
                'Accept': 'application/geo+json'
            }
        }).then(response => response.json());

        L.geoJSON(BGTbak, {
            pointToLayer: function (feature, latlng) {
                return L.marker(latlng,
            );
            },
        }).addTo(map);
    })();
</script>
```

Dank voor de aandacht!

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