

Geonovum

OGC API Features

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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

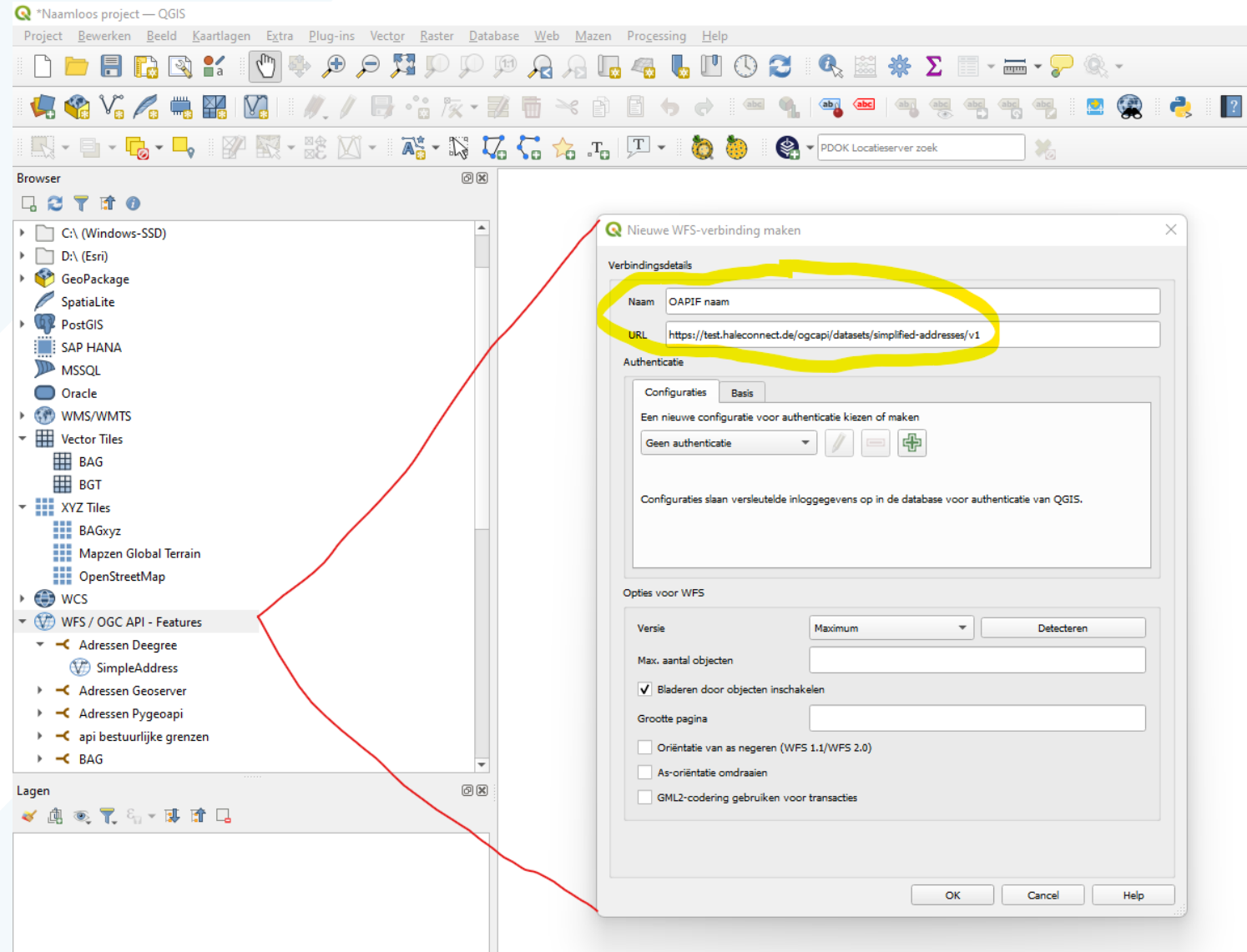
OGC API Features structuur

- 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>

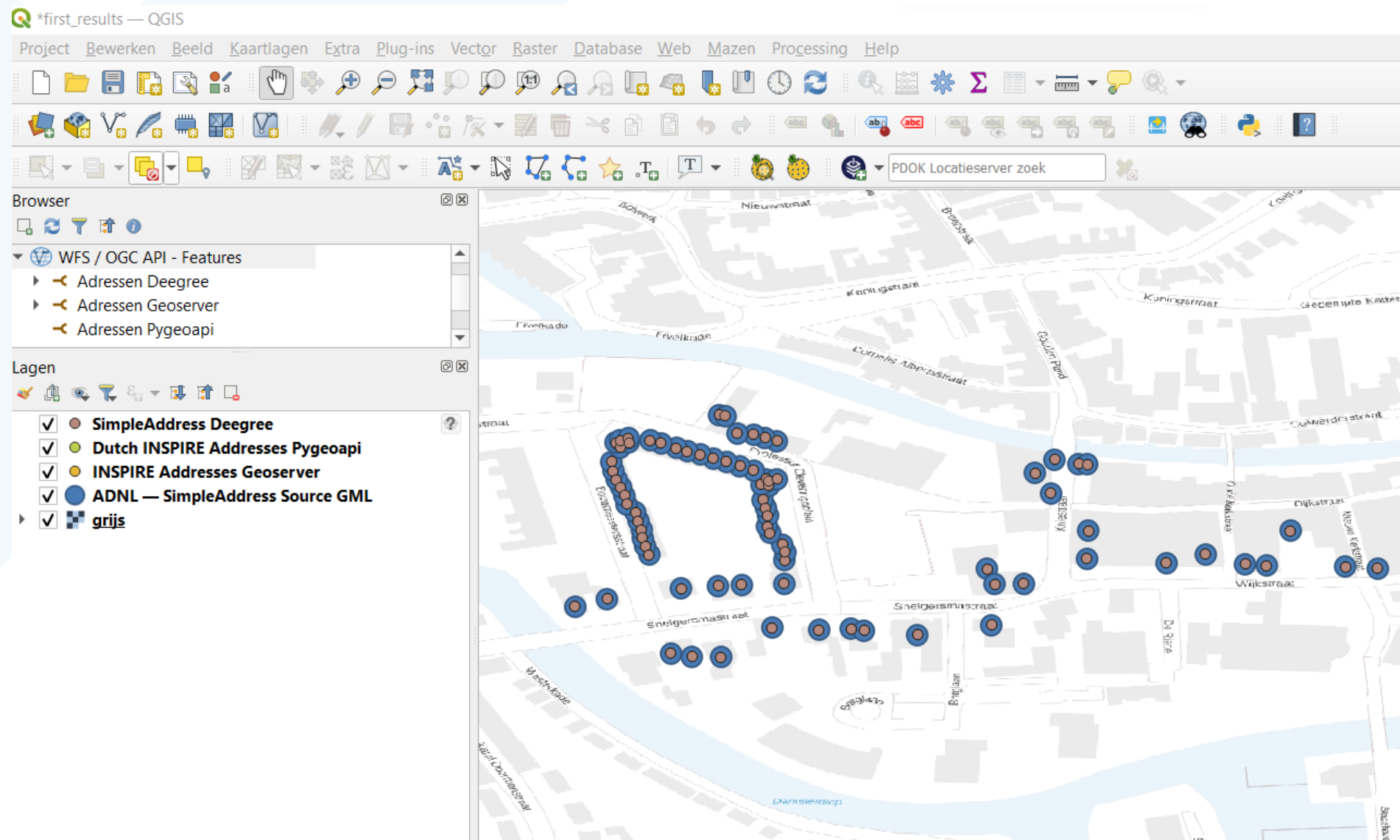
Parameters:

- ?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

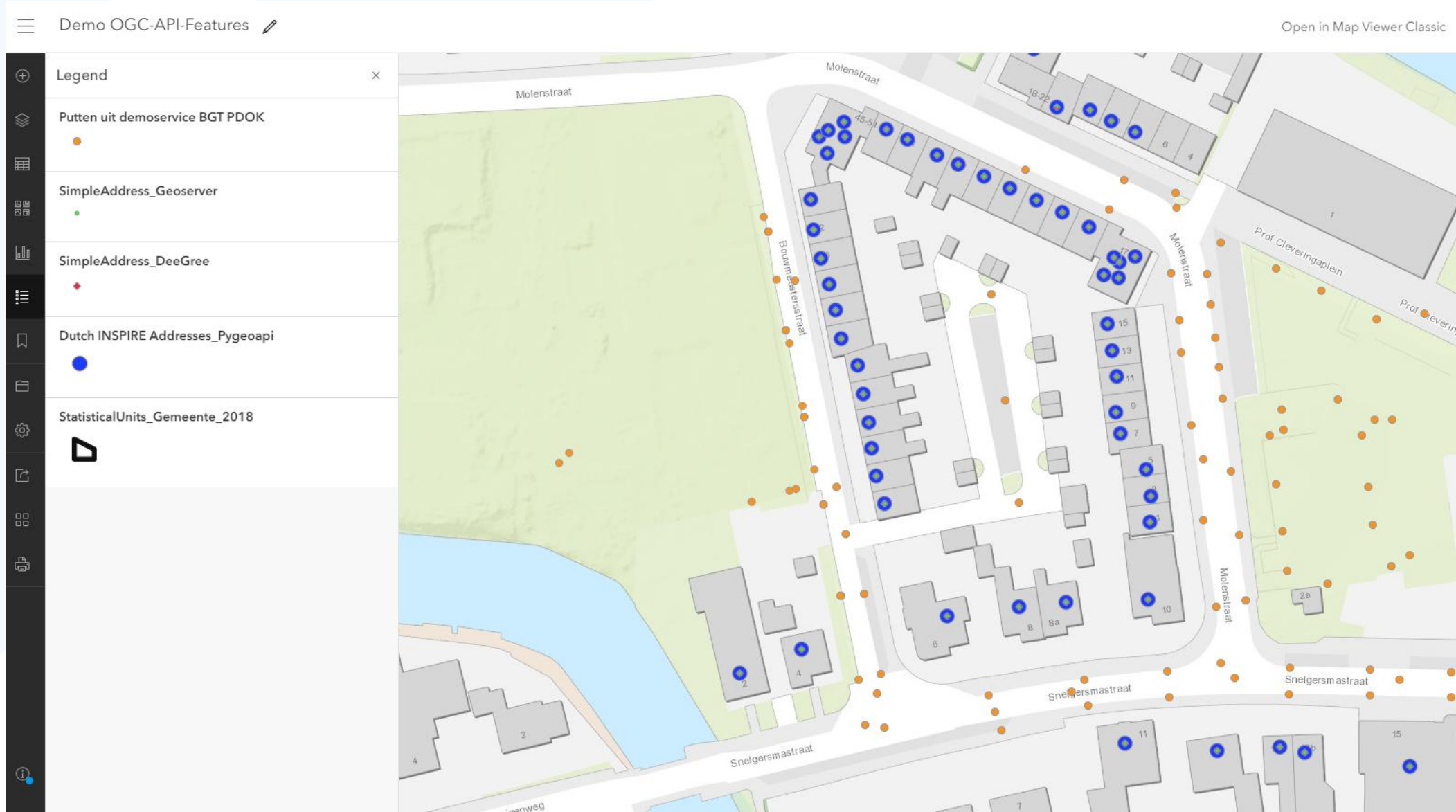
Gebruik in Qgis



Demo OGC-API-Features in QGIS



Demo OGC-API-features in ArcGIS Online



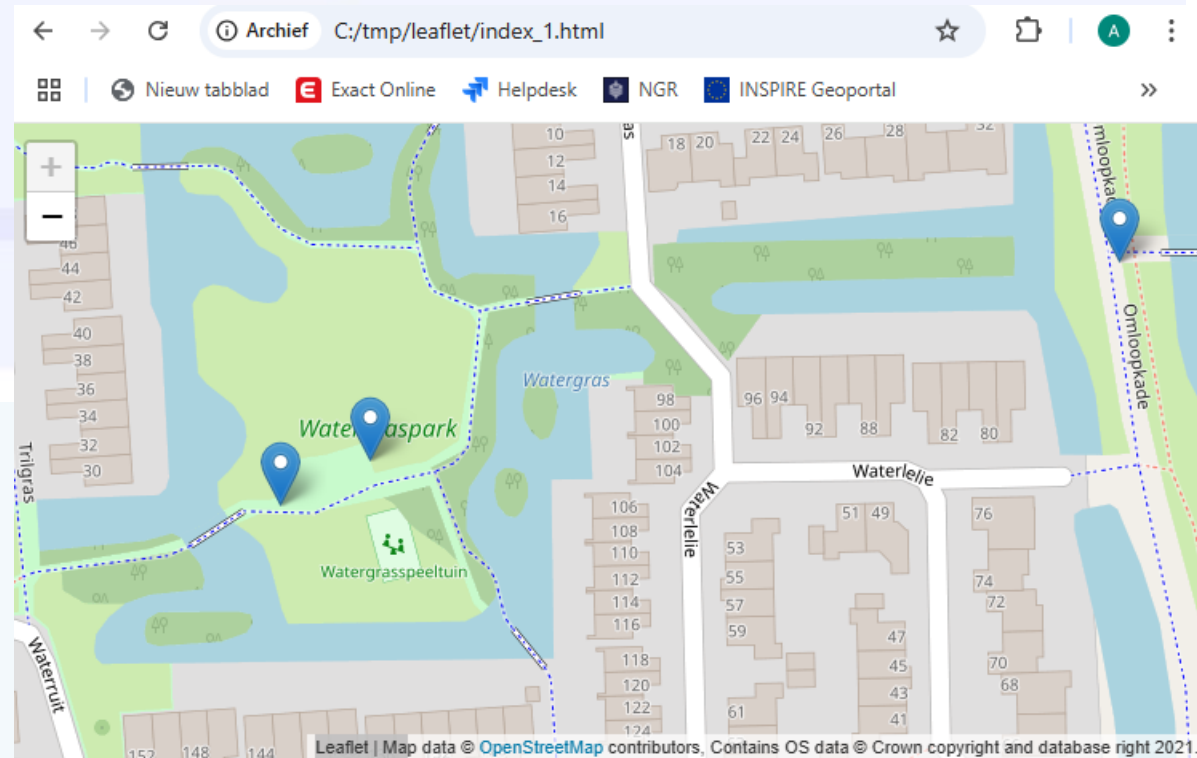
Leaflet, Openlayers, Maplibre

```
<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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