



GeoStyler

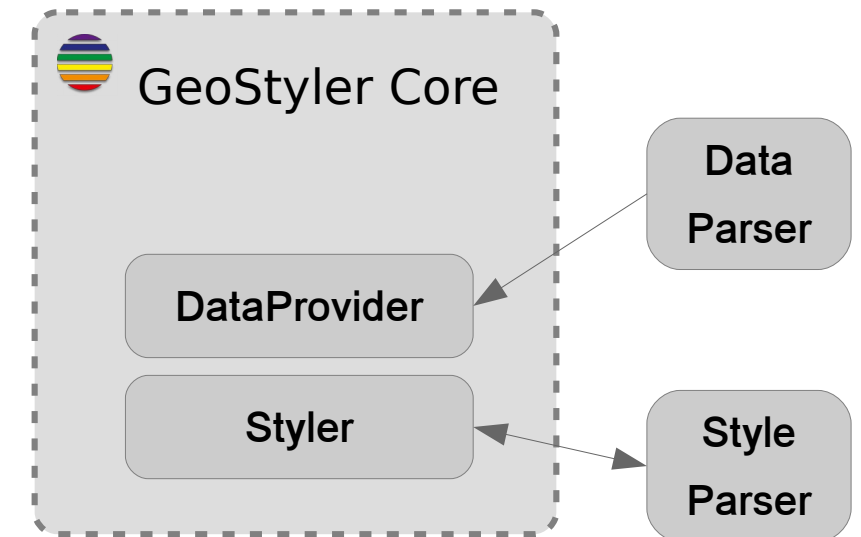
– Map Styling Library –

Torsten Brassat

- 
- GeoStyler

GeoStyler

- Gebrauchsfertige Map Styling Bibliothek basierend auf React
- 4 Besonderheiten:
 - Komponenten basiert
 - Stilformat unabhängig (SLD, OpenLayers, ...)
 - Datenformat unabhängig (GeoJSON, WFS, ...)
 - Außerhalb von React verwendbar

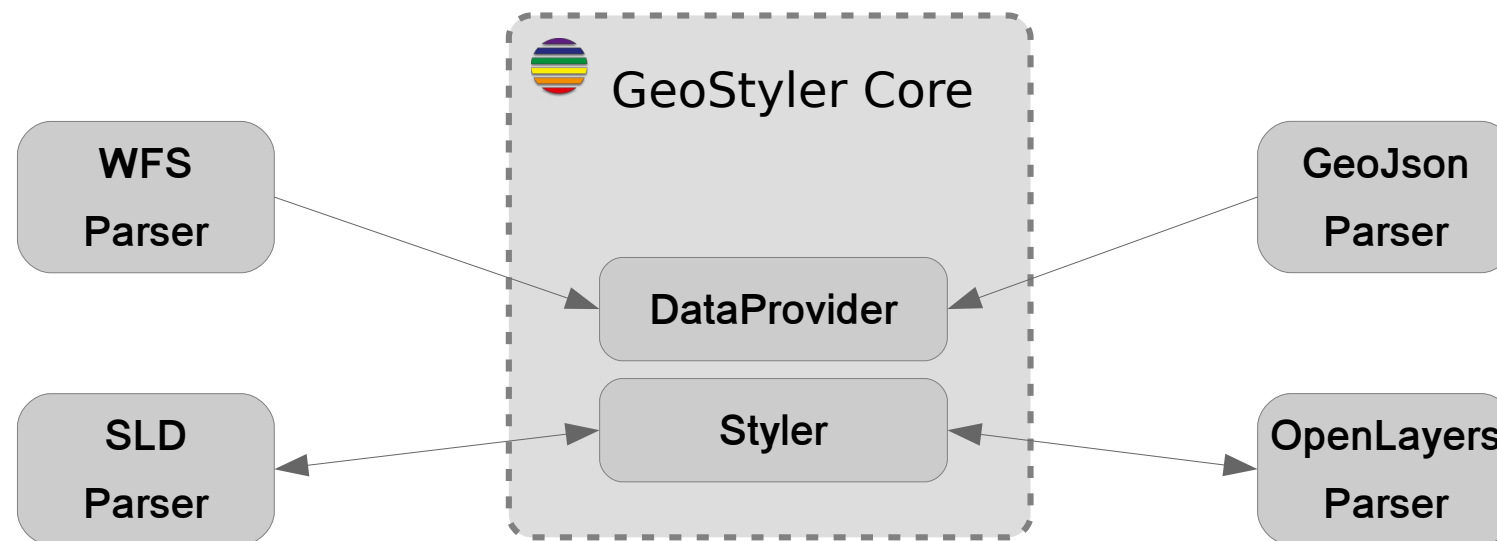


Parser Plug-Ins

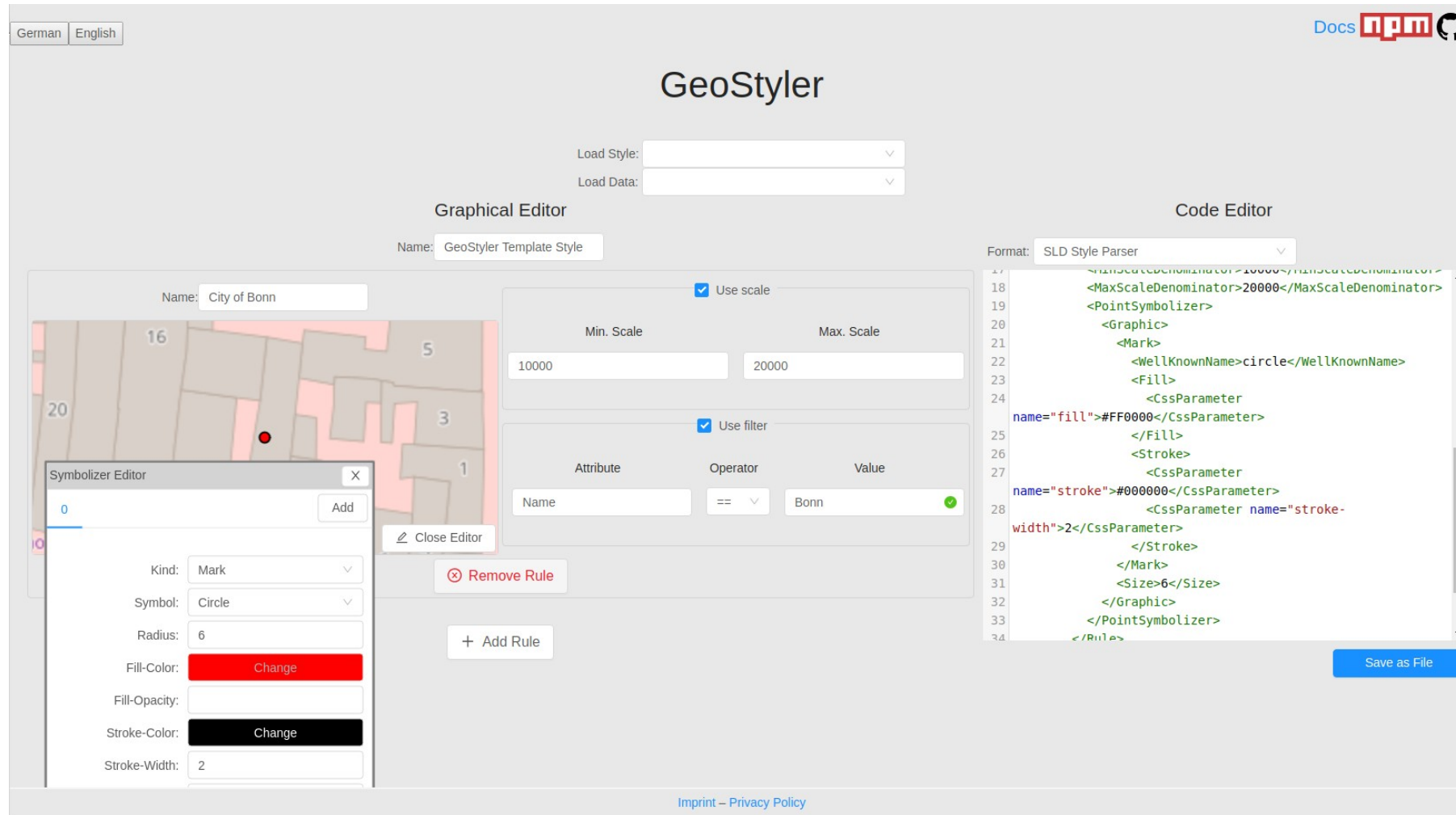
- Lesen & schreiben verschiedener Stilformate
- Lesen verschiedener Datenformate
- Entwicklung & Integration eigener Parser möglich

Existierende Parser

Data WFS & GeoJson
Style SLD & OpenLayers

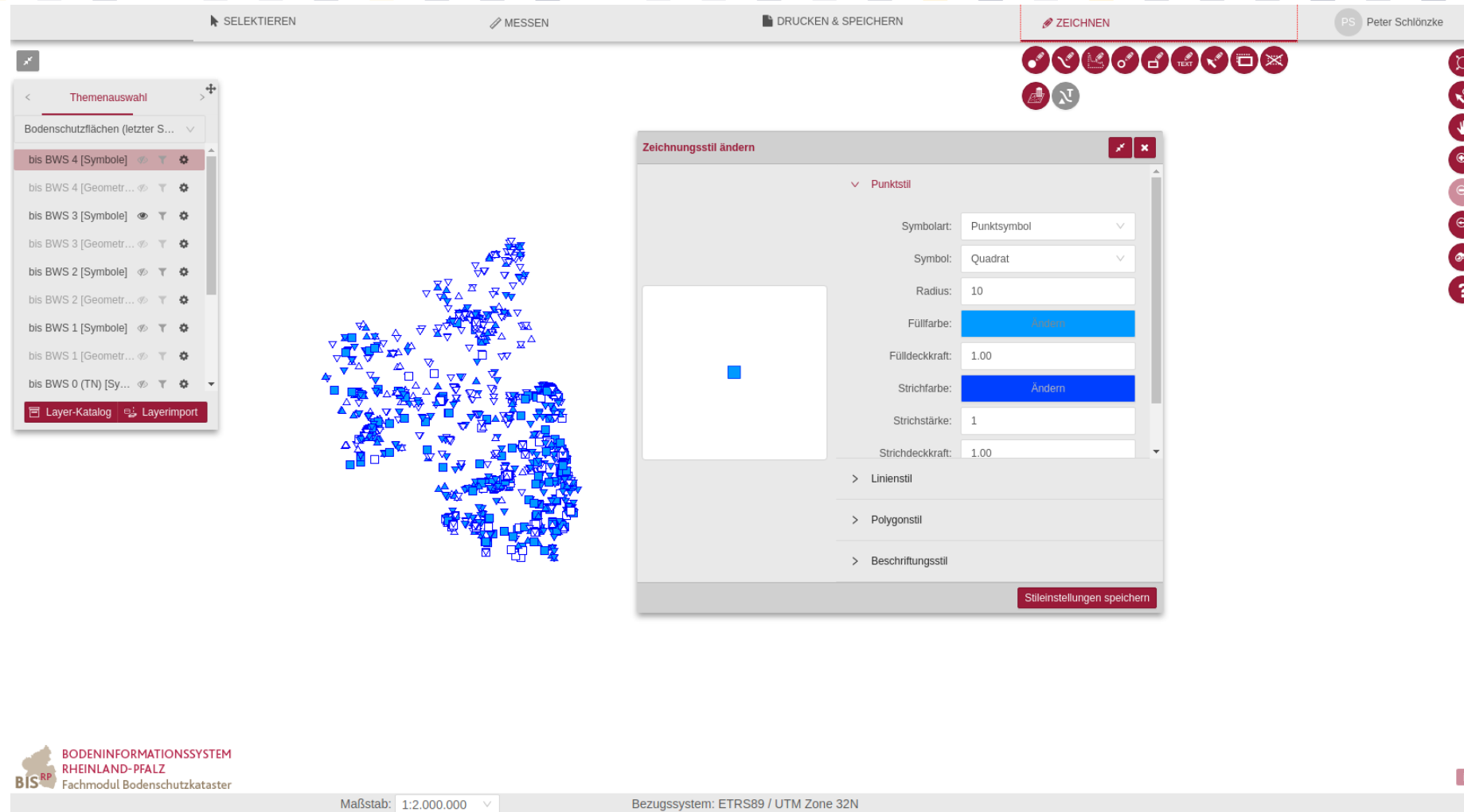


GeoStyler – Standalone App



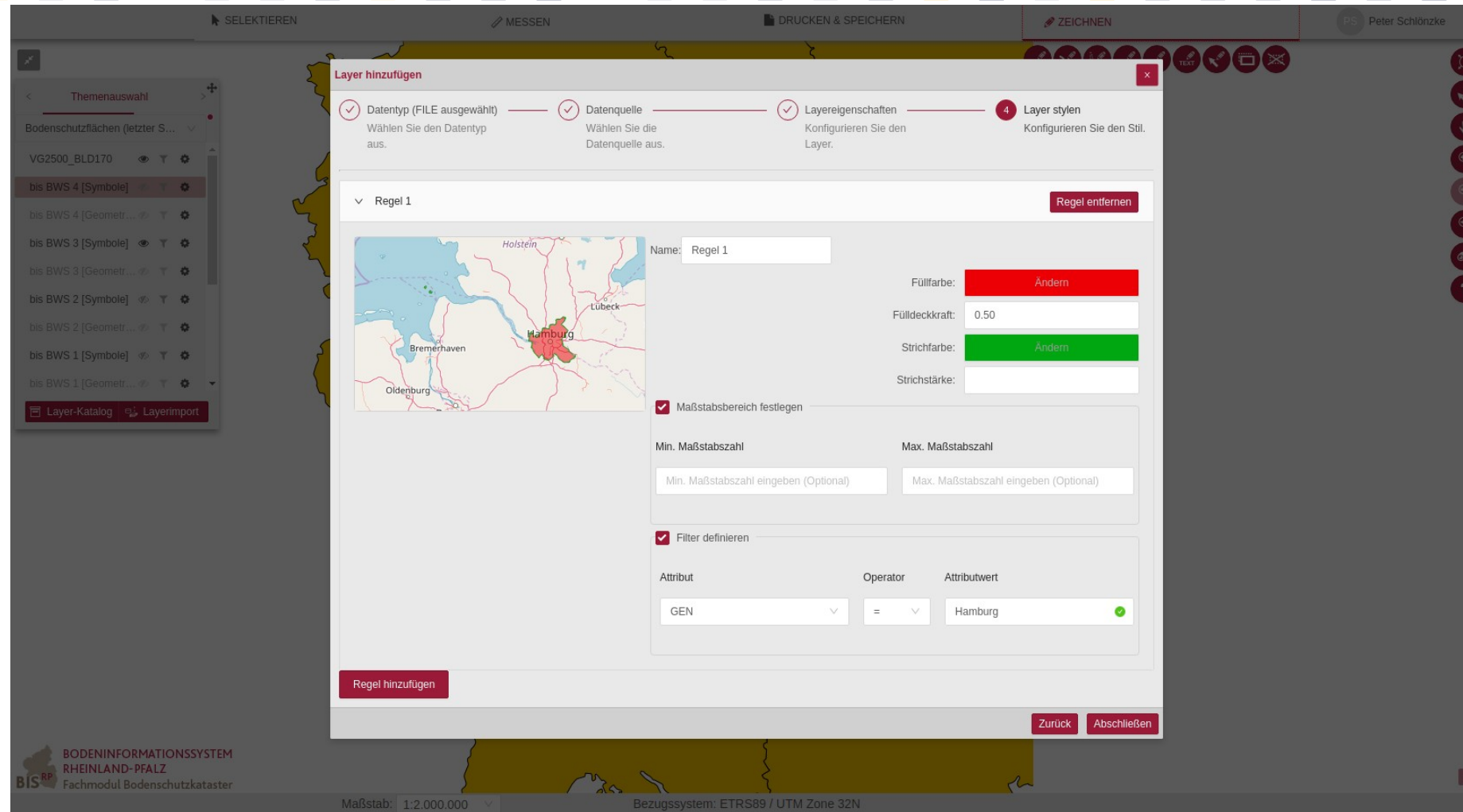
GeoStyler – Integriert

Bodeninformationssystem - Rheinland-Pfalz



GeoStyler – Integriert

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GeoStyler – Browser Plug-In

The screenshot displays the GeoStyler web application interface. The top navigation bar includes links for Serverstatus, Protokollierung, Kontaktangaben, and Über GeoServer. The left sidebar contains sections for Daten (Layer-Vorschau, Arbeitsbereiche, Datenspeicher, Layer, Gruppenlayer, Stile), Dienste (WCS, WFS, WMTS, WMS), Einstellungen (Global, JAI, Raster), Kartenkacheln-Cache (Gecachte Layer, Caching Standards, GridSets, Festplattenkontingent, BlobStores), Sicherheit (Einstellungen, Authentifizierung, Kennwörter, Benutzer, Gruppen, Rollen, Daten, Services), Demos, and Werkzeuge.

The main content area shows a map with features labeled 'church', 'stock', and 'art'. A legend on the right lists the features and their corresponding symbols: 'stock' (star), 'church' (cross), and 'art' (triangle). The 'Style Editor' at the bottom displays the XML code for the style, including the SLD (Styled Layer Descriptor) and the XML Schema instance (XSI) location.

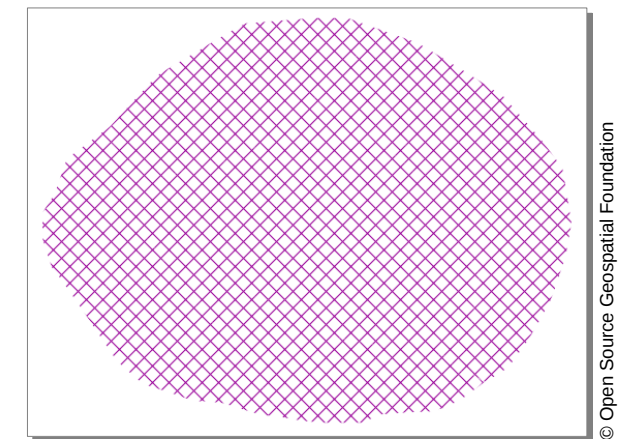
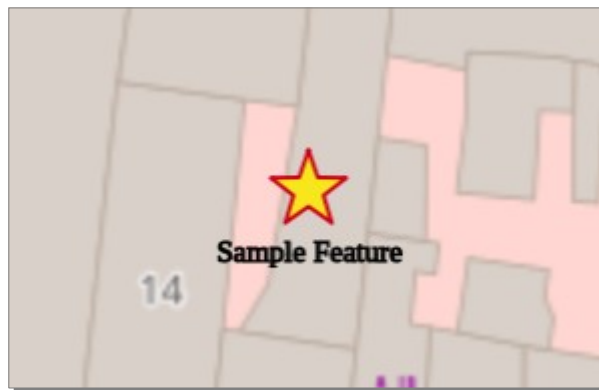
The 'Style Editor' shows the following XML code:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<StyledLayerDescriptor version="1.0.0" xsi:schemaLocation="http://www.opengis.net/sld StyledLayerDescriptor.xsd" xmlns="http://www.opengis.net/sld"
xmlns:ogc="http://www.opengis.net/ogc" xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <NamedLayer>
    <Name>Points of Interest</Name>
    <UserStyle>
      <Name>Points of Interest</Name>
      <Title>Points of Interest</Title>
      <FeatureTypeStyle>
        <Rule>
          <Name>stock</Name>
          <Filter xmlns="http://www.opengis.net/ogc">
            <PropertyIsEqualTo>
              <PropertyName>NAME</PropertyName>
              <Literal>stock</Literal>
            </PropertyIsEqualTo>
          </Filter>
          <PointSymbolizer>
            <Graphic>
              <Mark>
                <WellKnownName>star</WellKnownName>
                <Fill>
                  <CssParameter name="fill">#f8e71c</CssParameter>
                </Fill>
              </Mark>
            </Graphic>
          </PointSymbolizer>
        </Rule>
      </FeatureTypeStyle>
    </UserStyle>
  </NamedLayer>
</StyledLayerDescriptor>
```

The interface also includes a 'Copy to Clipboard' button and a 'Validieren' button at the bottom.

Ausblick

- Erzeugung komplexer Filter
- WMS Vorschau
- Zusätzliche Layout Komponenten (bspw. tabellarische Übersicht der Regeln)
- Füll-Pattern für OpenLayers Parser



Code & Dokumentation



- Anwendung
 - <https://terrestris.github.io/geostyler/>
- Code
 - <https://github.com/terrestris/geostyler>
- Dokumentation
 - <https://terrestris.github.io/geostyler/styleguide/>
- Beiträge in jeglicher Form sind gerne gesehen!

Danke für Ihre Aufmerksamkeit!



- Torsten Brassat
- +49 228 962 899 51
- brassat@terrestris.de