

News from GeoStyler

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Contents

1. What is GeoStyler?
2. Feature news
3. Project news
4. Community news
5. What's next?



What is GeoStyler?

- Graphical editor for styling geodata
- Converter of styling formats



What is GeoStyler?

Graphical editor for styling geodata

Docs [npm](#)

Language: EN DE ES 中文 Compact: Symbolizer Renderer: OpenLayers SLD Load Style: Examples

Graphical Editor

Name: Demo Style

	Name	Filter	Min. Scale	Max. Scale	Σ	⊕
<input type="checkbox"/>	Hamburg	GEN = 'Hamburg'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Niedersachsen	GEN = 'Niedersachsen'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Bremen	GEN = 'Bremen'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Nordrhein-Westfalen	GEN = 'Nordrhein-Westfalen'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Hessen	GEN = 'Hessen'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Rheinland-Pfalz	GEN = 'Rheinland-Pfalz'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Baden-WÄrttemberg	GEN = 'Baden-WÄrttemberg'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Bayern	GEN = 'Bayern'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Saarland	GEN = 'Saarland'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Berlin	GEN = 'Berlin'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Brandenburg	GEN = 'Brandenburg'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Mecklenburg-Vorpommern	GEN = 'Mecklenburg-Vorpommern'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Sachsen	GEN = 'Sachsen'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Sachsen-Anhalt	GEN = 'Sachsen-Anhalt'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	ThÄringen	GEN = 'ThÄringen'	<input type="button" value="⊖"/>		1	0
<input type="checkbox"/>	Schleswig-Holstein	GEN = 'Schleswig-Holstein'	<input type="button" value="⊖"/>		1	0

+Add Rule Clone Rules Remove Rules Multi edit

Classification

> Code Editor

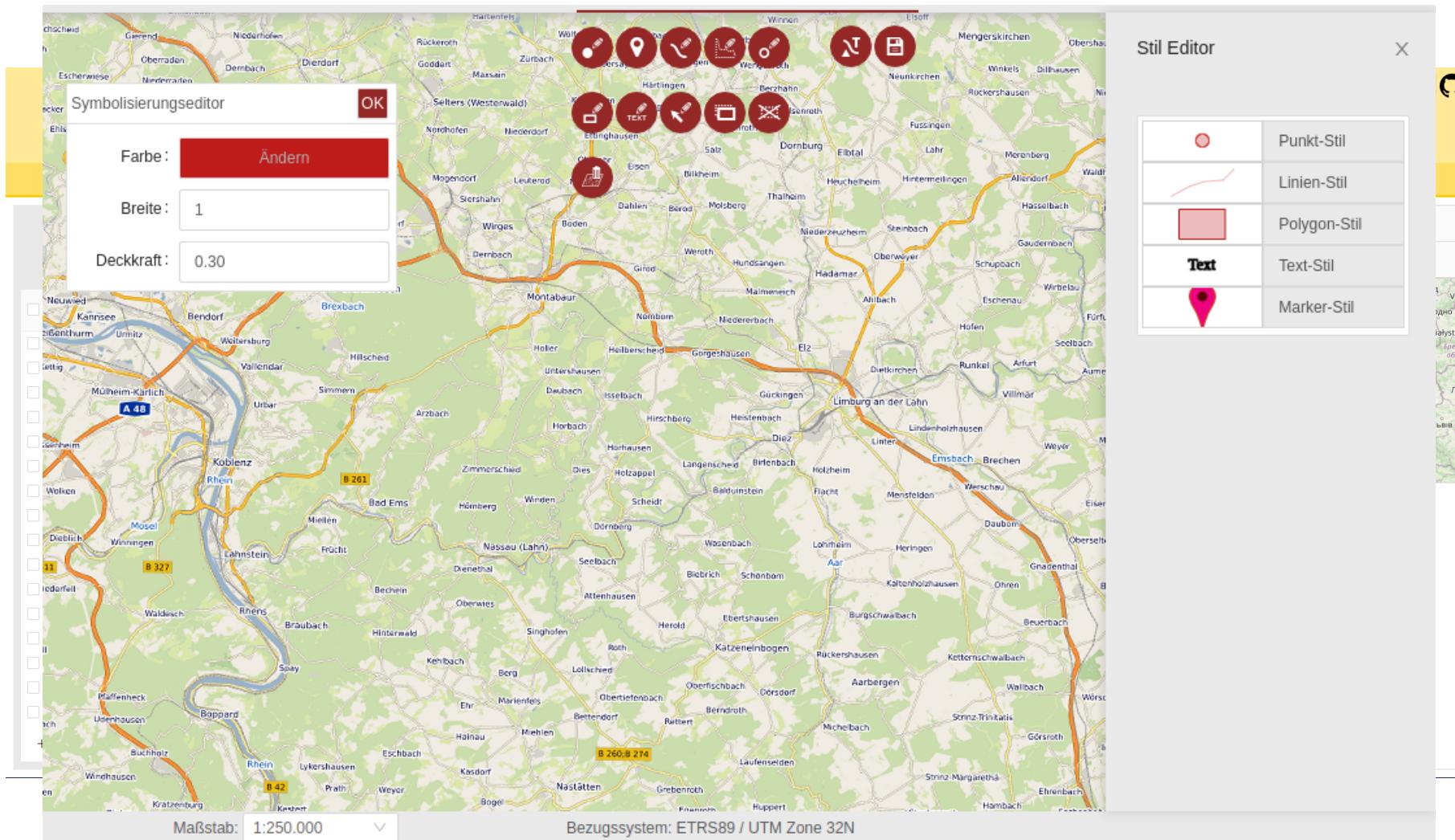
▼ Preview Map





What is GeoStyler?

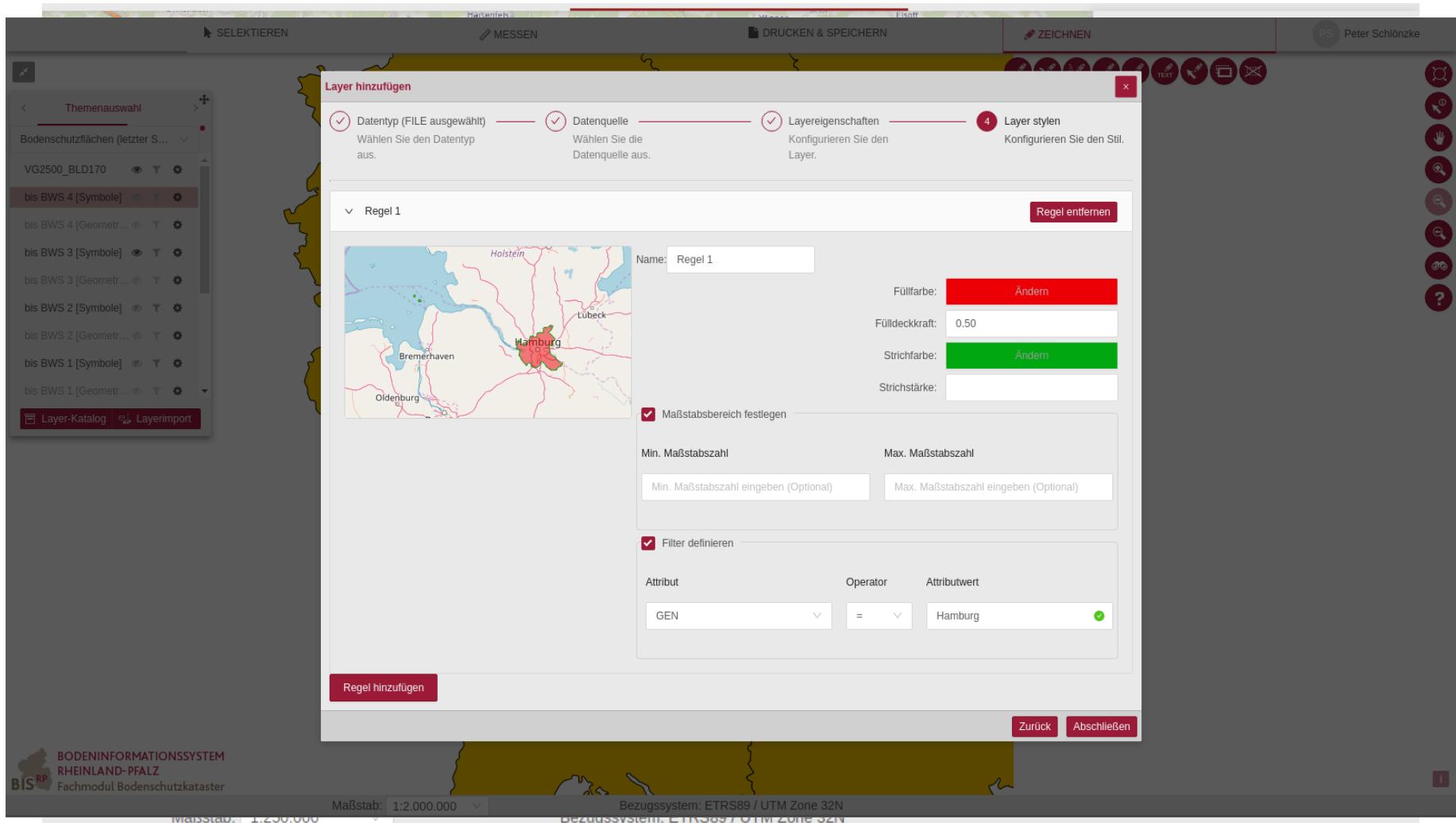
Graphical editor for styling geodata





What is GeoStyler?

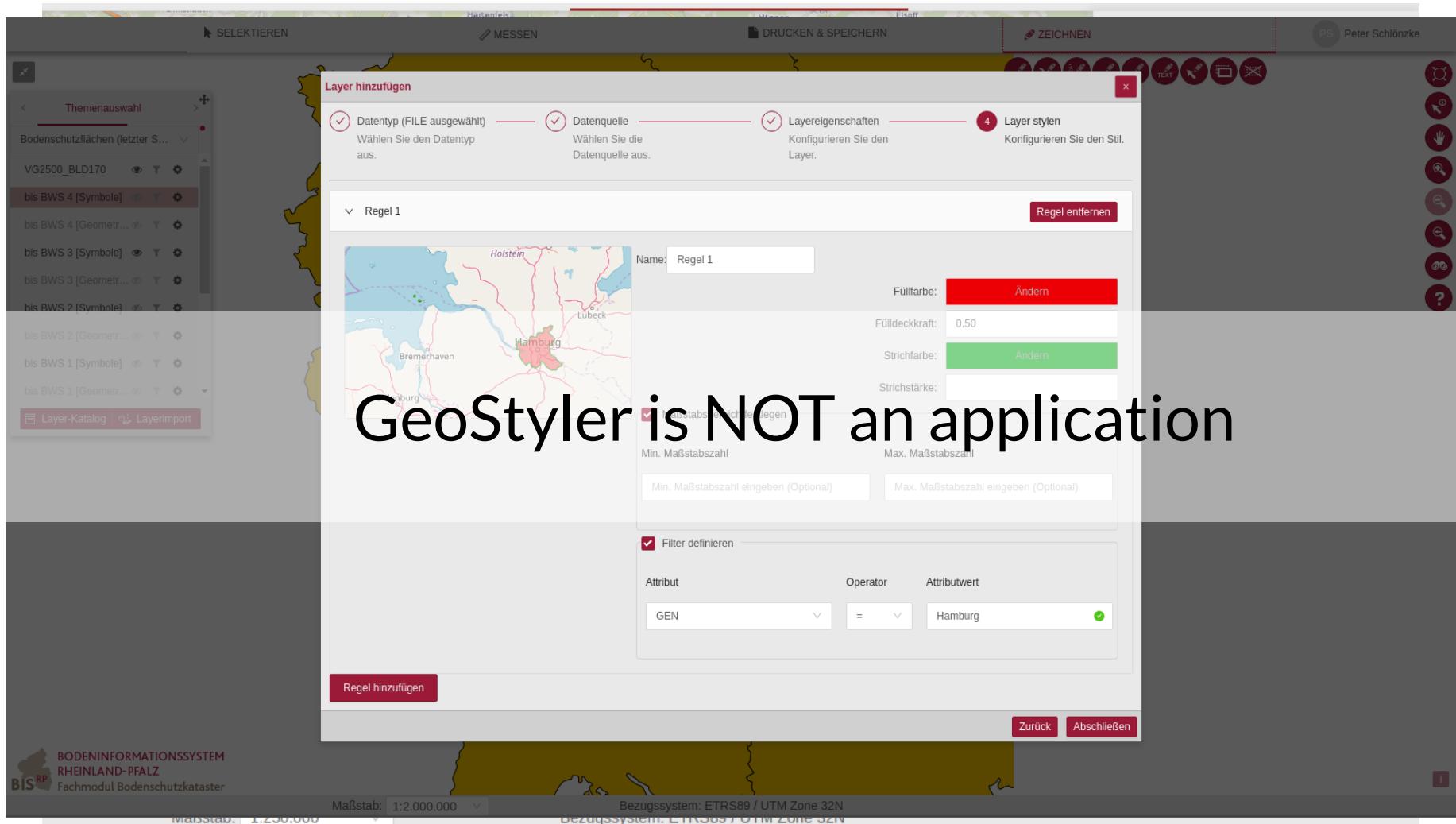
Graphical editor for styling geodata





What is GeoStyler?

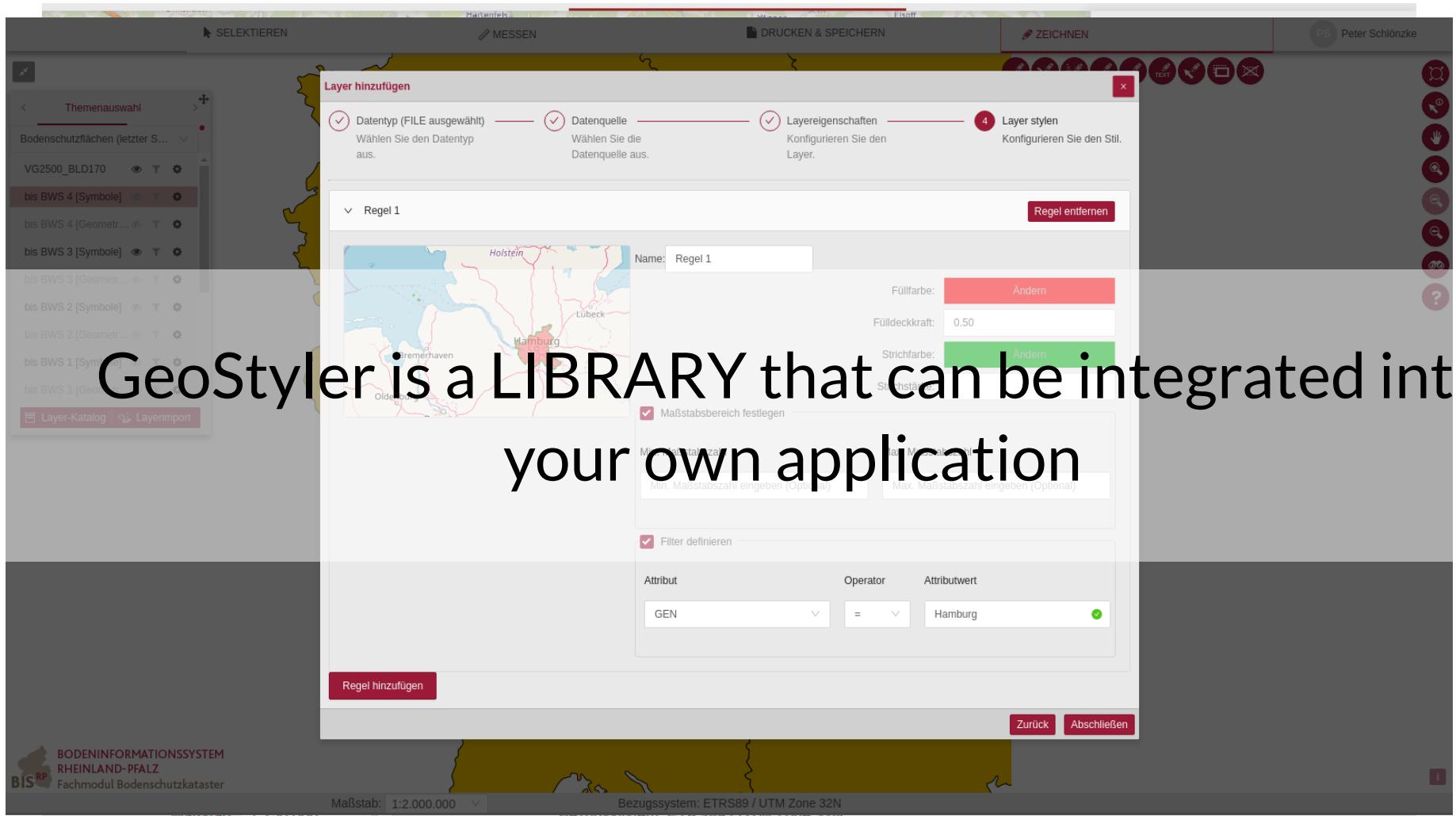
Graphical editor for styling geodata





What is GeoStyler?

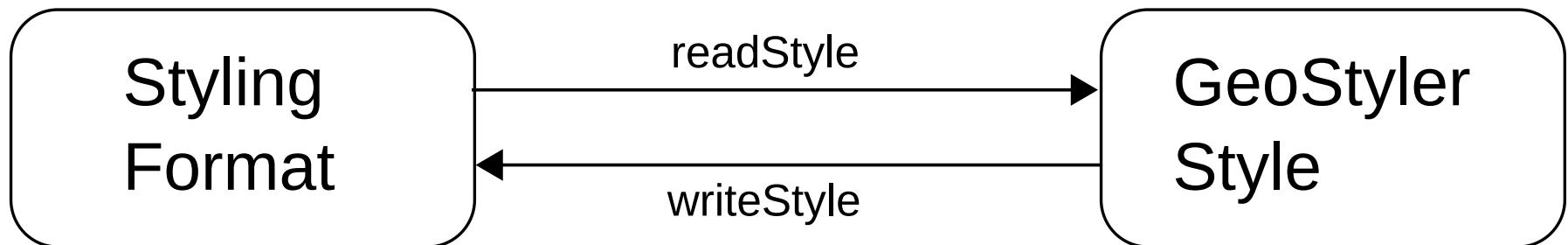
Graphical editor for styling geodata





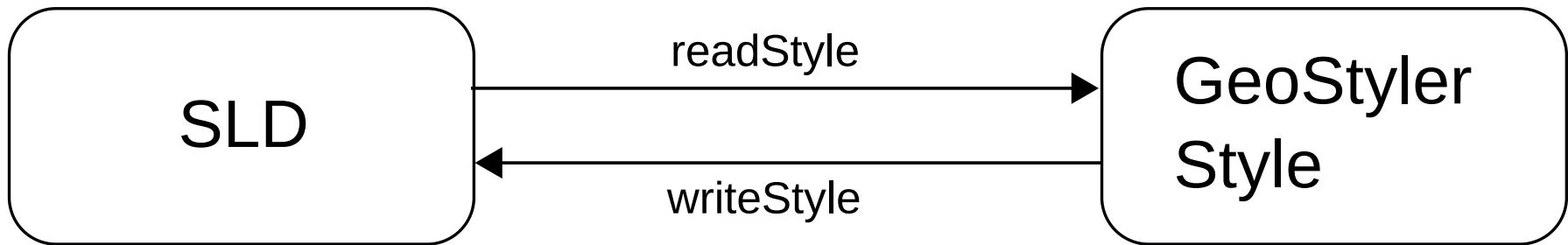
What is GeoStyler?

Converter of styling formats



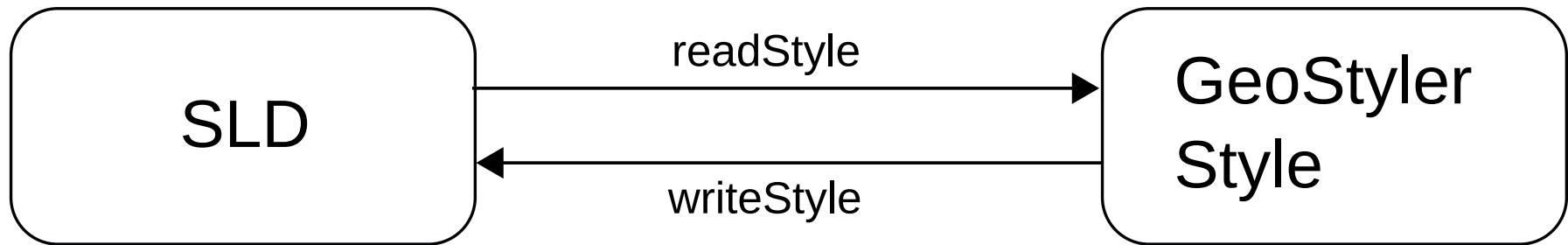
What is GeoStyler?

Converter of styling formats



What is GeoStyler?

Converter of styling formats



```
<!--?xml version="1.0" encoding="UTF-8" standalone="yes"?-->
<styledlayerdescriptor version="1.0.0" xsi:schemalocation=
  <namedlayer>
    <name>Demo Style</name>
    <userstyle>
      <name>Demo Style</name>
      <title>Demo Style</title>
      <featuretypestyle>
        <rule>
          <name>Rule 1</name>
          <pointsymbolizer>
            <graphic>
              <mark>
```

```
{
  "name": "Demo Style",
  "rules": [
    {
      "name": "Rule 1",
      "symbolizers": [
        {
          "kind": "Mark",
          "wellKnownName": "circle"
        }
      ]
    }
  ]
}
```



What is GeoStyler?

Converter of styling formats



What is GeoStyler?

Converter of styling formats



What is GeoStyler?

Converter of styling formats



```
LAYER
  NAME "point_simple_point"
  TYPE POINT
  DATA "../shapes/points.shp"
  EXTENT -180 -90 180 90
  METADATA
    "wms_title" "point_simple_point"
    "wms_srs" "EPSG:4326"
  END
  CLASS
    STYLE
      SYMBOL "circle"
      COLOR 0 255 0
```

```
<!--?xml version="1.0" encoding="UTF-8" standalone="yes"?-->
<StyledLayerDescriptor version="1.0.0" xsi:schemaLocation=
  <namedlayer>
    <name>Demo Style</name>
    <userstyle>
      <name>Demo Style</name>
      <title>Demo Style</title>
      <featuretypestyle>
        <rule>
          <name>Rule 1</name>
          <pointsymbolizer>
            <graphic>
              <mark>
```



Feature news

Feature news

i18n

Chinese translations

	▲▼	名称	过滤器	最小比例尺	最大比例尺	Σ	%
<input type="checkbox"/>	▲▼	Hamburg	GEN = 'Hamburg'			1	0
<input checked="" type="checkbox"/>	▲▼	Bayern	GEN = 'Bayern'			1	0
<input checked="" type="checkbox"/>	▲▼	Schleswig-Holstein	GEN = 'Schleswig-Holstein'			1	0

+添加规则 克隆规则 -移除规则 同时编辑



Feature news

Feature news

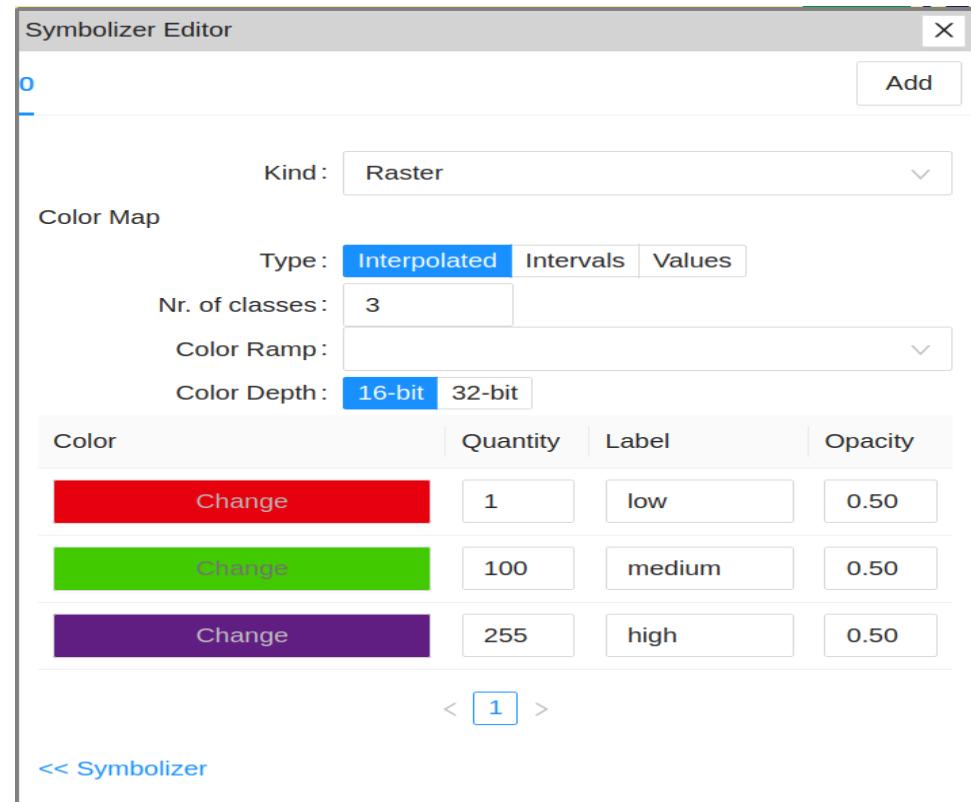
Components
PreviewMap



Feature news

Components

RasterSymbolizer



Feature news

Parser

Mapfile Parser

See [geostyler-mapfile-parser](#)

```
LAYER
  NAME "point_simple_point"
  TYPE POINT
  DATA "../shapes/points.shp"
  EXTENT -180 -90 180 90
  METADATA
    "wms_title" "point_simple_point"
    "wms_srs" "EPSG:4326"
  END
  CLASS
    STYLE
      SYMBOL "circle"
      COLOR 0 255 0
      SIZE 15
    END
  END
END
```

Balthasar Teuscher - GeoStyler Mapfile Parser
Thursday, 29.09.2021 [@FOSS4G 2021](#)



Feature news

Parser Support for SLD 1.1

See [geostyler-sld-parser](#)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<StyledLayerDescriptor version="1.1.0" xsi:schemaLocation="http://www.opengis.net/sld S
<NamedLayer>
  <se:Name>Demo Style</se:Name>
  <UserStyle>
    <se:Name>Demo Style</se:Name>
    <se:FeatureTypeStyle>
      <se:Rule>
        <se:Name>Rule 1</se:Name>
        <se:PointSymbolizer uom="http://www.opengeospatial.org/se/units/pixel">
          <se:Graphic>
            <se:Mark>
              <se:WellKnownName>circle</se:WellKnownName>
            </se:Mark>
          </se:Graphic>
        </se:PointSymbolizer>
      </se:Rule>
    </se:FeatureTypeStyle>
  </UserStyle>
</NamedLayer>
</StyledLayerDescriptor>
```



Feature news

Development

Typeguards for style interfaces

See [geostyler-style](#)



Project news

Project news

GeoStyler CLI

Automated conversion between styling formats

```
geostyler -s qgis -t sld -o output.sld input.qml
```

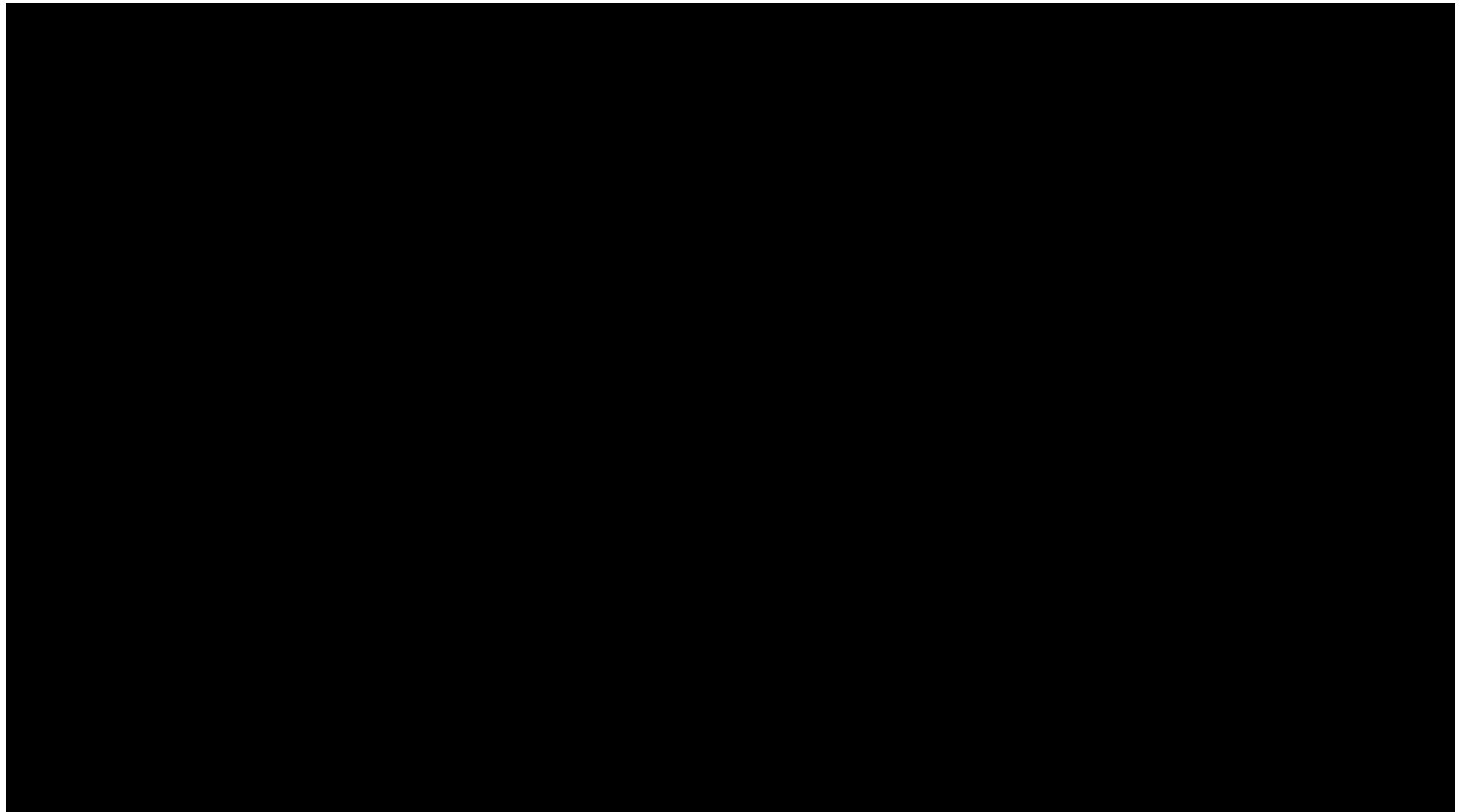
See [geostyler-cli](#)



Project news

Project news

GeoStyler CLI



Project news

GeoStyler REST

Convert styles via REST API

See [geostyler-rest](#)



Project news

GeoServer

Improvements on
GeoStyler community
extension

See [GeoStyler Extension](#)

The screenshot displays the GeoStyler extension interface for GeoServer. At the top, there are tabs for Data, Publishing, Layer Preview, and Layer Attributes, with Publishing selected. Below the tabs, the 'Style Data' section shows a 'Name' field set to 'line'. A 'Format' dropdown is set to 'SLD'. The 'Style Content' section includes options for generating a default style from a choice or existing style, or uploading a style file. To the right, a 'Legend' panel has an 'Add legend' button and a 'Preview legend' link. The main workspace shows a table for rules, with a row for 'Blue Line'. Buttons for adding, cloning, removing, and editing rules are at the bottom. At the bottom of the interface, a code editor shows the XML for the SLD style, which defines a named layer for a line feature type. The XML includes declarations for namespaces and elements like `<Name>default_line</Name>`, `<Title>Default Line</Title>`, and `<Abstract>A line style that draws a line</Abstract>`. The code editor has buttons for Validate, Save, Apply, and Cancel.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<StyledLayerDescriptor xmlns="http://www.opengis.net/sld" xsi:schemaLocation="http://www.opengis.net/sld StyledLayerDescriptor.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ogc="http://www.opengis.net/def/crs/OGC/1.3/CRS_OGC">
  <NamedLayer>
    <Name>default_line</Name>
    <Title>Default Line</Title>
    <Abstract>A line style that draws a line</Abstract>
    <FeatureTypeStyle>
      <Abstract>A FeatureTypeStyle for rendering lines -->
      <Rule>
        <LineSymbolizer>
          <stroke>#000000</stroke>
        </LineSymbolizer>
      </Rule>
    </FeatureTypeStyle>
  </NamedLayer>
</StyledLayerDescriptor>
```



Style Data

Name

Workspace

Format
 ⓘ Format only editable for new styles

Style Content

Generate a default style

ⓘ

Copy from existing style

Upload a style file

No file selected.

Legend

Legend

GeoStyler

Live preview enabled? (automatically saves the style on changes)

Name:

<input type="checkbox"/>		Name	Filter	Min. Scale	Max. Scale
<input type="checkbox"/>				<input type="text" value="Blue Line"/>	



```

1 <?xml version="1.0" encoding="ISO-8859-1"?>
2 <StyledLayerDescriptor version="1.0.0"
3   xsi:schemaLocation="http://www.opengis.net/sld StyledLayerDescriptor.xsd"
4   xmlns="http://www.opengis.net/sld"
5   xmlns:ogc="http://www.opengis.net/ogc"
6   xmlns:xlink="http://www.w3.org/1999/xlink"
7   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
8   <!-- a Named Layer is the basic building block of an SLD document -->
9   <NamedLayer>
10    <Name>default_line</Name>
11    <UserStyle>
12      <!-- Styles can have names, titles and abstracts -->
13      <Title>Default Line</Title>
14      <Abstract>A sample style that draws a line</Abstract>
15      <!-- FeatureTypeStyles describe how to render different features -->
16      <!-- A FeatureTypeStyle for rendering lines -->
17      <FeatureTypeStyle>
18        <Rule>

```



Community news



Community news

OSGeo Community Project

We are now officially an OSGeo Community Project



See osgeo.org



Community news



Community news

New Project Website

Infos, Docs & Tutorials on geostyler.org

[See geostyler.org](https://geostyler.org)



GeoStyler

Generic Styler for GeoData

Demo

Getting Started

Docs



Community news

New GitHub Organisation

All GeoStyler Repositories on
github.com/geostyler

 [geostyler](#) 

Generic Styler for geodata

TypeScript ⭐ 106 📂 27

 [geostyler-style](#) 

Style declaration files for the GeoStyler project

TypeScript ⭐ 10 📂 10

 [geostyler-sld-parser](#) 

GeoStyler-Style-Parser implementation for SLD

TypeScript ⭐ 22 📂 18

 [geostyler-openlayers-parser](#) 

GeoStyler Style Parser implementation for OpenLayers styles

TypeScript ⭐ 18 📂 16

 [geostyler-demo](#) 

GeoStyler Demo App

TypeScript ⭐ 7 📂 10

 [geostyler-data](#) 

Data declaration files for the GeoStyler project

⭐ 4 📂 5



Community news

Contributors

Thanks to all Contributors
who helped improving GeoStyler



What's next?

What's next?

More styling formats

?? geostyler-arcgis-parser ??
on-going discussion...



What's next?



What's next?

Support of SLD Expressions

```
<se:SvgParameter name="fill">  
  <ogc:PropertyName>Feature_Color</ogc:PropertyName>  
</se:SvgParameter>
```



What's next?

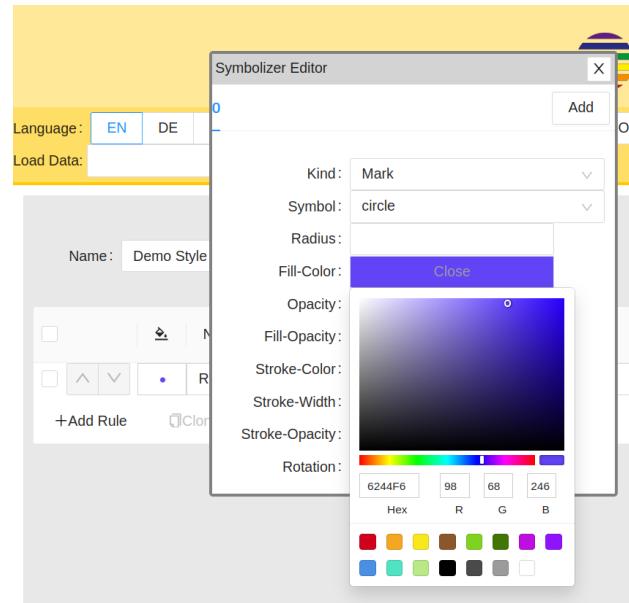
Improving Label Templating

Location: {{city}}, {{state}}



What's next?

Windowless Layout
Improving responsiveness



What's next?

QGIS Plugin
Import/Export Styles in QGIS



What's next?

GeoStyler Code Sprint

Bugfixing, New Features, Community Building

When? TBA



What's next?

Talks on FOSS4G

- Balthasar Teuscher - GeoStyler Mapfile Parser, 29.09.2021 @Humahuaca
- Marc Jansen, Till Adams - Optimized publishing of map and dataservices with GeoServer, GeoStyler and MapProxy, 30.09.2021 @Buenos Aires
- Marc Jansen, Christian Mayer - The state of GeoExt along with an outlook on its future, 30.09.2021 @Córdoba



Thank you for your attention

and enjoy FOSS4G 2021



Imprint

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terrestris.github.io/foss4g2021/geostyler

[PDF-Version](#), git repository

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