

De Grote Geo Show OSGeo.NL, 28.05.2020

The Colour and the Shape GeoStyler rocks



Christian Mayer



- Geospatial software-developer and -architect
- Open Source / Open Data enthusiast
- OS Core Developer: GeoExt, GeoStyler, Wegue...
- meggsimum
- Office for Open Source geospatial services
- Loc: Palatinate South-West of Germany
- Software concepts and development
- (Web-)GIS and SDI
- Consulting, planning, training















Motivation



- Webbased cartographic styling is a re-occuring topic...
- Various standards for cartographic symbolisation of geodata available:
 - Official standards: OGC SLD with Filter Encoding (FE)
 - Industrial standards: e. g. Mapbox Styles
 - Project-related styling:
 e. g. QGIS or OpenLayers
- Tons of customer specific solutions



Image source: https://tenor.com/NgaJ.gif

GeoStyler



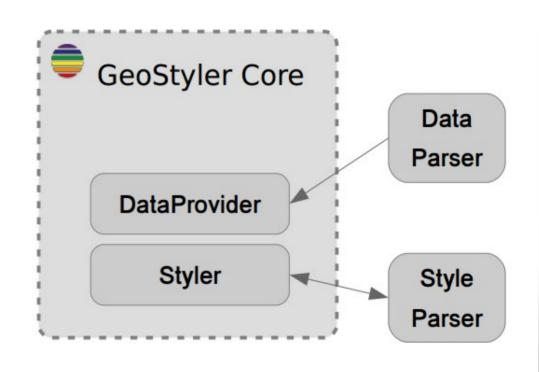
- Ready-to-use map styling library
- ES6 & TypeScript
- React & Ant Design
- Open Architecture
 - Style format independent
 - Data format independent
- Modular UI components → fully customizable
- Development since about 2 years
- Cooperation terrestris and meggsimum
- Open Source (BSD)



Open Architecture



- Existing Parsers
 - Style
 - SLD
 - Mapbox
 - QGIS
 - OpenLayers
 - Mapfile (WIP)
 - Data
 - WFS
 - GeoJSON
 - Shapefile



Open Architecture



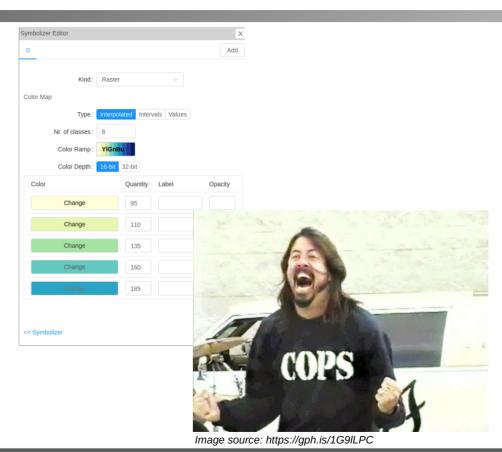
- Internal JSON style format
- Only internally used in GeoStyler Core
- Rulebased styles
 - Inspired by SLD and Mapbox
- One JSON-object per style
- Typed

```
"name": "Demo Style",
"rules": [
    "name": "Rule 1",
    "symbolizers": [
        "kind": "Mark",
        "color": "#0E1058",
        "wellKnownName": "Triangle"
```

GeoStyler Features

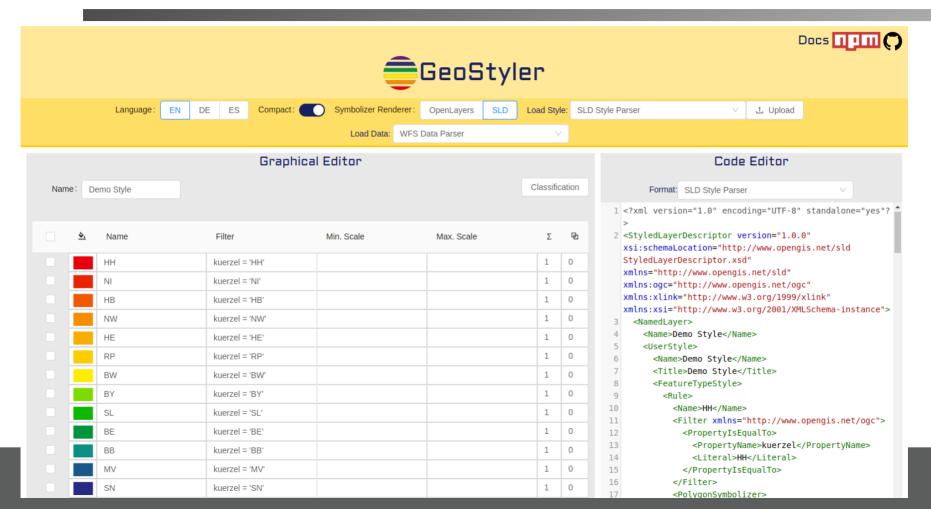


- Rulebased styles (incl. Symbolizer)
- Complex filters
- Previews
- (Automatic) Classifications
- Scale ranges
- Calculation of overlapping rules
- Usage with / without UI elements
- Different layouts
- I18n (Language wrapper)



GeoStyler Demo App (geostyler.org)





GeoStyler GeoServer Extension



Style Editor - tiger roads

Edit the current style. The editor can provide syntax highlighting and automatic formatting. Click on the "validate" button to verify the style is a valid SLD document.

Data	Publishi	ing La	ayer Preview Lay	ayer Attributes	GeoStyler						15 2H 12 3H
Preview on layer: tiger:tiger_roads											
Name: area landmarks											
		<u> </u>	Name		Filter		Min. Scale		Max. Scale		
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Validate	Apply	Submit	Cancel								

Ressources



- FOSSGIS / FOSS4G talks: https://media.ccc.de/search/?q=geoStyler
- Demo client: https://geostyler.org
- Code: https://github.com/geostyler
- Docs: https://geostyler.github.io/geostyler/
- npm: https://www.npmjs.com/package/geostyler
- Beginner workshop (in the make): https://github.com/geostyler/geostylerbeginner-workshop
- Advanced workshop: https://github.com/geostyler/geostyler-workshop



Probeer het eens en word lid van de GeoStylergemeenschap!

Dank u well !!!



Image source: https://tenor.com/beuKP.gif



Imprint

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