



GlobeSpotter SLD examples

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1 Introduction

This document describes what's currently supported of SLD/SE 1.1 in GlobeSpotter. It shows several examples explaining the limitations if applicable. This document doesn't explain the internals of SLD or an in depth explanation on how various styles can be used.

GlobeSpotter is able to read and apply **SLD/SE 1.1**. SLD 1.0 is not supported.

See Chapter 3 on how to convert SLD 1.0 to SLD/SE 1.1.

A good start to get more SLD knowledge is reading the SLD cookbook written by Mike Pumphrey.

Available at: <http://projects.opengeo.org/suite/attachment/ticket/622/sldcookbook.pdf>

or: <http://docs.geoserver.org/stable/en/user/styling/sld-cookbook/index.html>

2 SLD/SE 1.1

2.1 Point

2.1.1 Marker as point symbolizer



This example draws a simple point with a cross symbolize of size 12. GlobeSpotter currently supports the following symbolizers:

- Square
- Circle
- Cross

SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:koggenland_putten</FeatureTypeName>
  <Rule>
    <PointSymbolizer>
      <Graphic>
        <Mark>
          <WellKnownName>cross</WellKnownName>
          <Fill>
            <SvgParameter name="fill">#00FF00</SvgParameter>
            <SvgParameter name="fill-opacity">0.9</SvgParameter>
          </Fill>
        </Mark>
        <Size>12</Size>
      </Graphic>
    </PointSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

2.1.2 Marker as point symbolizer with stroke

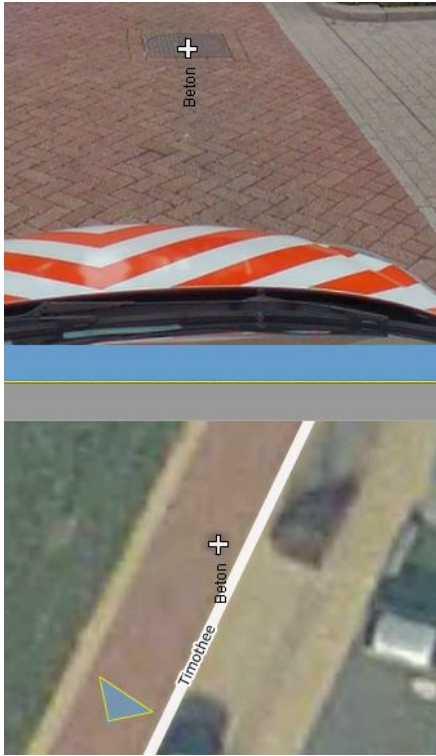


This example draws a simple point with a cross symbolize of size 12 with an stroke

SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:koggenland_putten</FeatureTypeName>
  <Rule>
    <PointSymbolizer>
      <Graphic>
        <Mark>
          <WellKnownName>cross</WellKnownName>
          <Fill>
            <SvgParameter name="fill">#00FF00</SvgParameter>
            <SvgParameter name="fill-opacity">0.9</SvgParameter>
          </Fill>
          <Stroke>
            <SvgParameter name="stroke">#000000</SvgParameter>
            <SvgParameter name="stroke-width">2</SvgParameter>
          </Stroke>
        </Mark>
        <Size>20</Size>
      </Graphic>
    </PointSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

2.1.3 Point symbolizer with rotated textlabel



This example draws a point using a well known marker (cross) with stroke and a rotated text label

SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:koggenland_putten</FeatureTypeName>
  <Rule>
    <PointSymbolizer>
      <Graphic>
        <Mark>
          <WellKnownName>cross</WellKnownName>
          <Fill>
            <SvgParameter name="fill">#FFFFFF</SvgParameter>
            <SvgParameter name="fill-opacity">0.9</SvgParameter>
          </Fill>
          <Stroke>
            <SvgParameter name="stroke">#000000</SvgParameter>
            <SvgParameter name="stroke-width">1</SvgParameter>
          </Stroke>
        </Mark>
        <Size>15</Size>
      </Graphic>
    </PointSymbolizer>
    <TextSymbolizer>
      <Label>
        <ogc:PropertyName>ct_6drio00</ogc:PropertyName>
      </Label>
      <Font>
        <SvgParameter name="font-size">12</SvgParameter>
      </Font>
      <LabelPlacement>
        <PointPlacement>
          <AnchorPoint>
            <AnchorPointX>0.5</AnchorPointX>
            <AnchorPointY>0.5</AnchorPointY>
          </AnchorPoint>
          <Displacement>
            <DisplacementX>0</DisplacementX>
            <DisplacementY>-30</DisplacementY>
          </Displacement>
          <Rotation>90</Rotation>
        </PointPlacement>
      </LabelPlacement>
    </TextSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

2.1.4 Attribute-based point



This example shows a point with different sizes. The size is based on the property 'dbh'. The filter 'PropertyIsEqualTo' is used to check against this property. Currently supported filters:

- PropertyIsEqualTo
- PropertyIsGreaterThan
- PropertyIsGreaterThanOrEqualTo
- PropertyIsLessThan
- PropertyIsLessThanOrEqualTo
- PropertyIsNotEqualTo

SLD code:

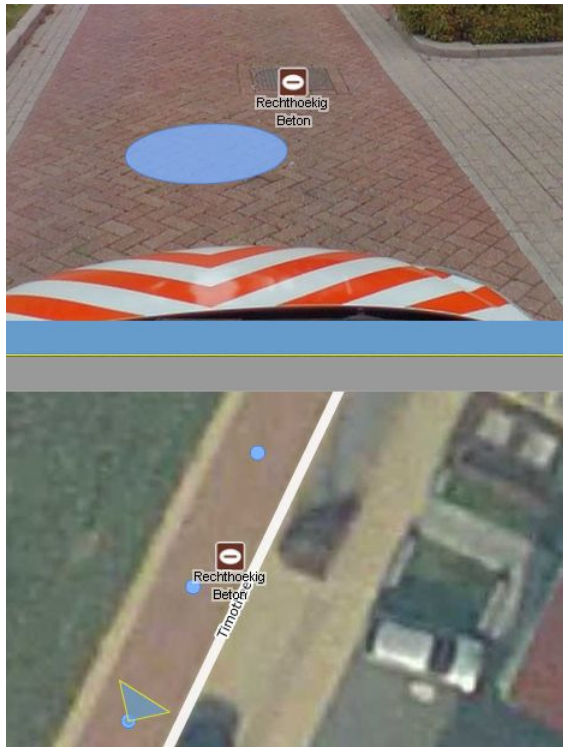
```
<FeatureTypeStyle>
  <FeatureTypeName>NL:Mook_bomen</FeatureTypeName>
  <Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>dbh</ogc:PropertyName>
        <ogc:Literal>11 - 15 cm</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PointSymbolizer>
      <Graphic>
        <Mark>
          <WellKnownName>circle</WellKnownName>
          <Fill>
            <SvgParameter name="fill">#00FF00</SvgParameter>
            <SvgParameter name="fill-opacity">0.9</SvgParameter>
          </Fill>
          <Stroke>
            <SvgParameter name="stroke">#000000</SvgParameter>
            <SvgParameter name="stroke-width">2</SvgParameter>
          </Stroke>
        </Mark>
        <Size>6</Size>
      </Graphic>
    </PointSymbolizer>
  </Rule>
  <Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>dbh</ogc:PropertyName>
        <ogc:Literal>16 - 20 cm</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PointSymbolizer>
      <Graphic>
        <Mark>
          <WellKnownName>circle</WellKnownName>
          <Fill>
            <SvgParameter name="fill">#00DD00</SvgParameter>
            <SvgParameter name="fill-opacity">0.9</SvgParameter>
          </Fill>
          <Stroke>
            <SvgParameter name="stroke">#000000</SvgParameter>
            <SvgParameter name="stroke-width">2</SvgParameter>
          </Stroke>
        </Mark>
      </Graphic>
    </PointSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

```

        <Size>10</Size>
    </Graphic>
</PointSymbolizer>
</Rule>
<Rule>
<ogc:Filter>
    <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>dbh</ogc:PropertyName>
        <ogc:Literal>21 - 25 cm</ogc:Literal>
    </ogc:PropertyIsEqualTo>
</ogc:Filter>
    <PointSymbolizer>
        <Graphic>
            <Mark>
                <WellKnownName>circle</WellKnownName>
                <Fill>
                    <SvgParameter name="fill">#00BB00</SvgParameter>
                    <SvgParameter name="fill-opacity">0.9</SvgParameter>
                </Fill>
                <Stroke>
                    <SvgParameter name="stroke">#000000</SvgParameter>
                    <SvgParameter name="stroke-width">2</SvgParameter>
                </Stroke>
            </Mark>
            <Size>14</Size>
        </Graphic>
    </PointSymbolizer>
</Rule>
<Rule>
<ogc:Filter>
    <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>dbh</ogc:PropertyName>
        <ogc:Literal>26 - 30 cm</ogc:Literal>
    </ogc:PropertyIsEqualTo>
</ogc:Filter>
    <PointSymbolizer>
        <Graphic>
            <Mark>
                <WellKnownName>circle</WellKnownName>
                <Fill>
                    <SvgParameter name="fill">#009900</SvgParameter>
                    <SvgParameter name="fill-opacity">0.9</SvgParameter>
                </Fill>
                <Stroke>
                    <SvgParameter name="stroke">#000000</SvgParameter>
                    <SvgParameter name="stroke-width">2</SvgParameter>
                </Stroke>
            </Mark>
            <Size>18</Size>
        </Graphic>
    </PointSymbolizer>
</Rule>
<Rule>
<ogc:Filter>
    <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>dbh</ogc:PropertyName>
        <ogc:Literal>31 - 35 cm</ogc:Literal>
    </ogc:PropertyIsEqualTo>
</ogc:Filter>
    <PointSymbolizer>
        <Graphic>
            <Mark>
                <WellKnownName>circle</WellKnownName>
                <Fill>
                    <SvgParameter name="fill">#007700</SvgParameter>
                    <SvgParameter name="fill-opacity">0.9</SvgParameter>
                </Fill>
                <Stroke>
                    <SvgParameter name="stroke">#000000</SvgParameter>
                    <SvgParameter name="stroke-width">2</SvgParameter>
                </Stroke>
            </Mark>
            <Size>22</Size>
        </Graphic>
    </PointSymbolizer>
</Rule>
</FeatureTypeStyle>

```

2.1.5 Point with external graphic and two displaced text labels



This example shows a point using an external image. Two text labels are visualized and displaced.

SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:koggenland_putten</FeatureTypeName>
  <Rule>
    <ogc:Filter>
      <ogc:Or>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>ct_6drio00</ogc:PropertyName>
          <ogc:Literal>Beton</ogc:Literal>
        </ogc:PropertyIsEqualTo>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>ct_8drio00</ogc:PropertyName>
          <ogc:Literal>Rechthoekig</ogc:Literal>
        </ogc:PropertyIsEqualTo>
      </ogc:Or>
    </ogc:Filter>
    <PointSymbolizer>
      <Graphic>
        <ExternalGraphic>
          <OnlineResource xlink:href="https://www.globespotter.nl/images/nl/bgt/put.png" />
          <Format>image/png</Format>
        </ExternalGraphic>
        <Size>25</Size>
      </Graphic>
    </PointSymbolizer>
    <TextSymbolizer>
      <Label>
        <ogc:PropertyName>ct_6drio00</ogc:PropertyName>
      </Label>
      <Font>
        <SvgParameter name="font-style">normal</SvgParameter>
        <SvgParameter name="font-weight">normal</SvgParameter>
        <SvgParameter name="font-size">11</SvgParameter>
      </Font>
      <LabelPlacement>
        <PointPlacement>
          <AnchorPoint>
            <AnchorPointX>0.5</AnchorPointX>
            <AnchorPointY>0.5</AnchorPointY>
          </AnchorPoint>
          <Displacement>
            <DisplacementX>0</DisplacementX>
          </Displacement>
        </PointPlacement>
      </LabelPlacement>
    </TextSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

```

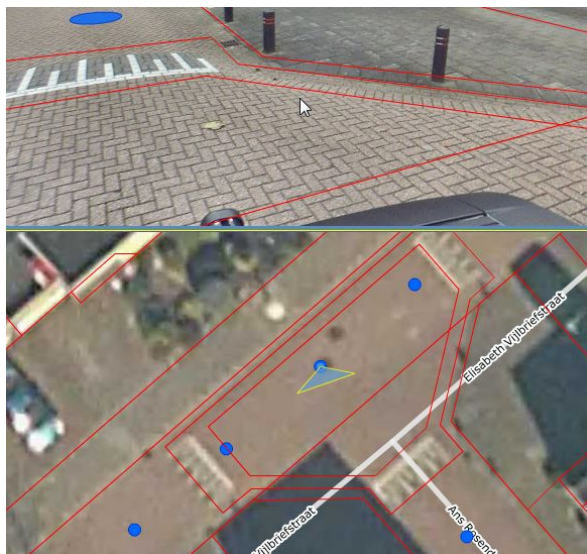
        <DisplacementY>-30</DisplacementY>
    </Displacement>
</PointPlacement>
</LabelPlacement>
<Halo>
    <Radius>2</Radius>
    <Fill>
        <SvgParameter name="fill">#FFFFFF</SvgParameter>
        <SvgParameter name="fill-opacity">0.5</SvgParameter>
    </Fill>
</Halo>
<Fill/>
</TextSymbolizer>

<TextSymbolizer>
    <Label>
        <ogc:PropertyName>ct_8drio00</ogc:PropertyName>
    </Label>
    <Font>
        <SvgParameter name="font-style">normal</SvgParameter>
        <SvgParameter name="font-weight">normal</SvgParameter>
        <SvgParameter name="font-size">11</SvgParameter>
    </Font>
    <LabelPlacement>
        <PointPlacement>
            <AnchorPoint>
                <AnchorPointX>0.5</AnchorPointX>
                <AnchorPointY>0.5</AnchorPointY>
            </AnchorPoint>
            <Displacement>
                <DisplacementX>0</DisplacementX>
                <DisplacementY>-15</DisplacementY>
            </Displacement>
        </PointPlacement>
    </LabelPlacement>
    <Halo>
        <Radius>2</Radius>
        <Fill>
            <SvgParameter name="fill">#FFFFFF</SvgParameter>
            <SvgParameter name="fill-opacity">0.5</SvgParameter>
        </Fill>
    </Halo>
<Fill/>
</TextSymbolizer>
</Rule>
</FeatureTypeStyle>

```

2.2 Line

2.2.1 Simple line



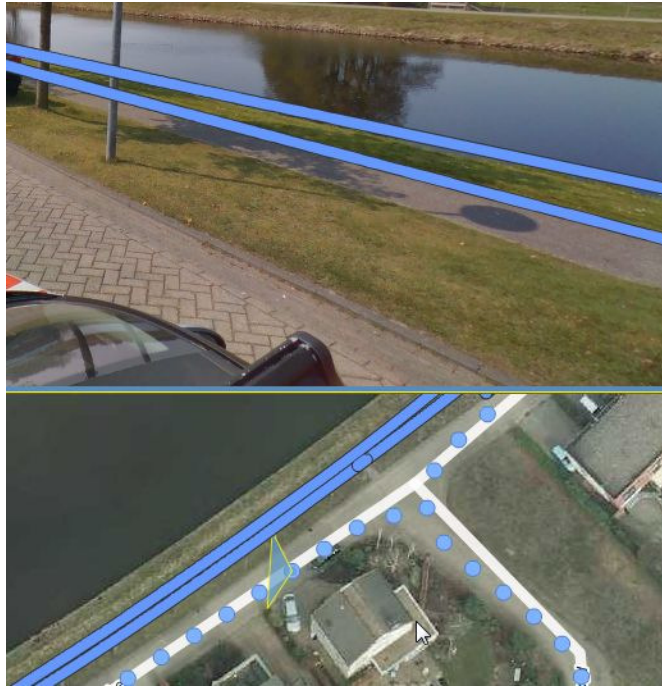
This example specifies lines be colored red. Default thickness is 1 pixel

SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:velsen_lijnen</FeatureTypeName>
  <Rule>
    <LineSymbolizer>
      <Stroke>
        <SvgParameter name="stroke">#FF0000</SvgParameter>
      </Stroke>
    </LineSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

2.2.2 Line with outline

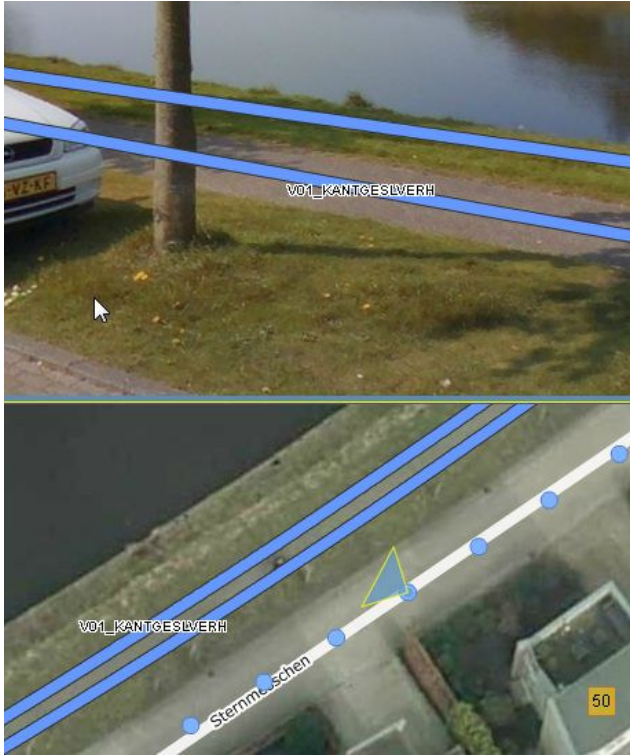
SLD code:



This example specifies lines be colored blue with a thin black outline. This is achieved by drawing two lines. One with thickness 10, the other with thickness 8

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:assen_lijnen</FeatureTypeName>
  <Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>layer</ogc:PropertyName>
        <ogc:Literal>V01_KANTGESLVERH</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <LineSymbolizer>
      <Stroke>
        <SvgParameter name="stroke">#333333</SvgParameter>
        <SvgParameter name="stroke-width">10</SvgParameter>
      </Stroke>
    </LineSymbolizer>
    <LineSymbolizer>
      <Stroke>
        <SvgParameter name="stroke">#6699FF</SvgParameter>
        <SvgParameter name="stroke-width">8</SvgParameter>
      </Stroke>
    </LineSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

2.2.3 Lines with text

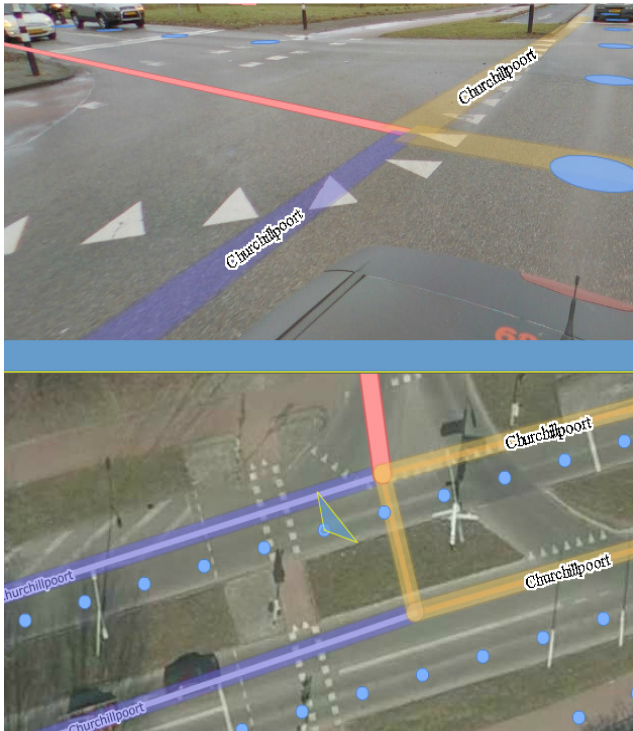


This example specifies lines be colored blue with a thin black outline. Also a text label is placed based on a given label property. The `IsAligned` property specifies if the text label should be aligned with the line.

SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:assen_lijnen</FeatureTypeName>
  <Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>layer</ogc:PropertyName>
        <ogc:Literal>V01_KANTGESLVERH</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <LineSymbolizer>
      <Stroke>
        <SvgParameter name="stroke">#333333</SvgParameter>
        <SvgParameter name="stroke-width">10</SvgParameter>
      </Stroke>
    </LineSymbolizer>
    <LineSymbolizer>
      <Stroke>
        <SvgParameter name="stroke">#6699FF</SvgParameter>
        <SvgParameter name="stroke-width">8</SvgParameter>
      </Stroke>
    </LineSymbolizer>
    <TextSymbolizer>
      <Label><ogc:PropertyName>layer</ogc:PropertyName></Label>
      <Halo>
        <Fill>
          <SvgParameter name="fill">#FFFFFF</SvgParameter>
        </Fill>
      </Halo>
      <LabelPlacement>
        <LinePlacement>
          <IsAligned>false</IsAligned>
        </LinePlacement>
      </LabelPlacement>
    </TextSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

2.2.4 Perspective lines in cyclorama



This example shows lines being drawn in perspective in the cyclorama. On the map lines are drawn in the usual way.

The following vendor option enables drawing of perspective lines in a cyclorama

```
<se:VendorOption name="perspectiveLine">
  true
</se:VendorOption>
```

The following vendor option defines the width of the perspective line in srs units (meters, pixels, degrees)

```
<se:VendorOption name="perspectiveLineWidth">
  0.8
</se:VendorOption>
```

Part of SLD Code:

```
<FeatureTypeStyle>
<Rule>
  <LineSymbolizer>
    <Stroke>
      <SvgParameter name="stroke">#3366CC</SvgParameter>
      <SvgParameter name="stroke-width">20</SvgParameter>
      <SvgParameter name="stroke-opacity">0.2</SvgParameter>
    </Stroke>
    <VendorOption name="perspectiveLine">true</VendorOption>
    <VendorOption name="perspectiveLineWidth">1</VendorOption>
  </LineSymbolizer>
  <LineSymbolizer>
    <Stroke>
      <SvgParameter name="stroke">#6699FF</SvgParameter>
      <SvgParameter name="stroke-width">16</SvgParameter>
      <SvgParameter name="stroke-opacity">0.2</SvgParameter>
    </Stroke>
    <VendorOption name="perspectiveLine">true</VendorOption>
    <VendorOption name="perspectiveLineWidth">0.8</VendorOption>
  </LineSymbolizer>
  <TextSymbolizer>
    <Label>
      <ogc:PropertyName>ref</ogc:PropertyName>
    </Label>
    <Font>
      <SvgParameter name="font-family">Serif</SvgParameter>
      <SvgParameter name="font-size">14</SvgParameter>
    </Font>
    <Halo>
      <Radius>2</Radius>
      <Fill>
        <SvgParameter name="fill">#6699FF</SvgParameter>
        <SvgParameter name="fill-opacity">0.5</SvgParameter>
      </Fill>
    </Halo>
    <Fill>
      <SvgParameter name="fill">#FFFFFF</SvgParameter>
      <SvgParameter name="fill-opacity">1</SvgParameter>
    </Fill>
  </TextSymbolizer>
</Rule>
</FeatureTypeStyle>
```

2.3 Polygon

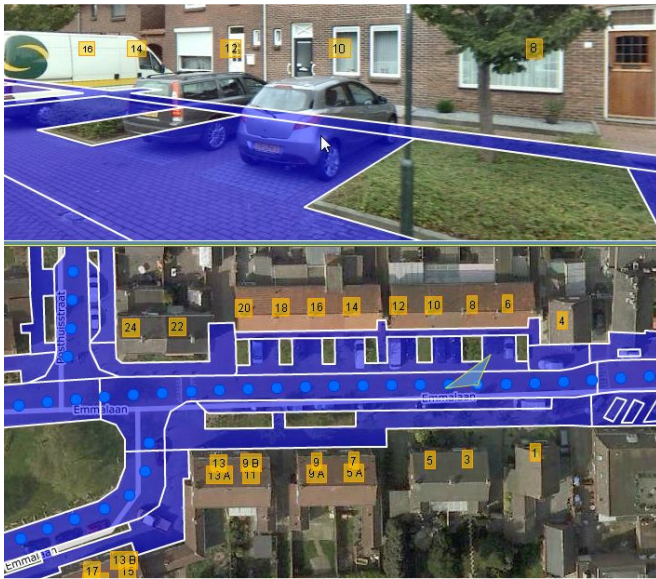
2.3.1 Simple Polygon with fill and stroke



SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:maasgouw_wegvakonderdelen</FeatureTypeName>
  <Rule>
    <PolygonSymbolizer>
      <Fill>
        <SvgParameter name="fill">#0000FF</SvgParameter>
      </Fill>
      <Stroke>
        <SvgParameter name="stroke">#FFFFFF</SvgParameter>
        <SvgParameter name="stroke-width">2</SvgParameter>
      </Stroke>
    </PolygonSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

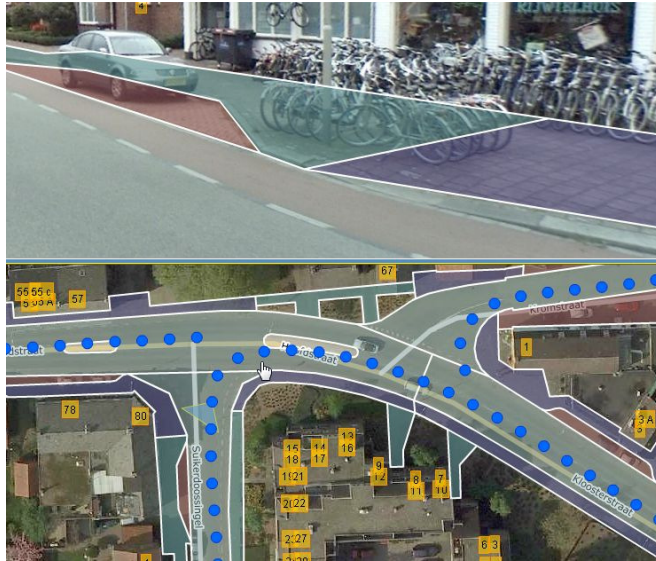
2.3.2 Simple Polygon with fill, stroke and transparency



SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:maasgouw_wegvakonderdelen</FeatureTypeName>
  <Rule>
    <PolygonSymbolizer>
      <Fill>
        <SvgParameter name="fill">#0000FF</SvgParameter>
        <SvgParameter name="fill-opacity">0.5</SvgParameter>
      </Fill>
      <Stroke>
        <SvgParameter name="stroke">#FFFFFF</SvgParameter>
        <SvgParameter name="stroke-width">2</SvgParameter>
      </Stroke>
    </PolygonSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

2.3.3 Attribute based Polygon



SLD code:

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:maasgouw_wegvakonderdelen</FeatureTypeName>
  <Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>verhfun_n</ogc:PropertyName>
        <ogc:Literal>trottoir</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PolygonSymbolizer>
      <Fill>
        <SvgParameter name="fill">#555588</SvgParameter>
        <SvgParameter name="fill-opacity">0.6</SvgParameter>
      </Fill>
      <Stroke>
        <SvgParameter name="stroke">#FFFFFF</SvgParameter>
        <SvgParameter name="stroke-width">2</SvgParameter>
      </Stroke>
    </PolygonSymbolizer>
  </Rule>
  <Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>verhfun_n</ogc:PropertyName>
        <ogc:Literal>rijbaan</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PolygonSymbolizer>
      <Fill>
        <SvgParameter name="fill">#88aaaa</SvgParameter>
        <SvgParameter name="fill-opacity">0.4</SvgParameter>
      </Fill>
      <Stroke>
        <SvgParameter name="stroke">#FFFFFF</SvgParameter>
        <SvgParameter name="stroke-width">2</SvgParameter>
      </Stroke>
    </PolygonSymbolizer>
  </Rule>
  <Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>verhfun_n</ogc:PropertyName>
        <ogc:Literal>parkeerplaats</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PolygonSymbolizer>
      <Fill>
        <SvgParameter name="fill">#558855</SvgParameter>
        <SvgParameter name="fill-opacity">0.6</SvgParameter>
      </Fill>
      <Stroke>

```

```

        <SvgParameter name="stroke">#FFFFFF</SvgParameter>
        <SvgParameter name="stroke-width">2</SvgParameter>
    </Stroke>
</PolygonSymbolizer>
</Rule>
<Rule>
    <ogc:Filter>
        <ogc:PropertyIsEqualTo>
            <ogc:PropertyName>verhfun_n</ogc:PropertyName>
            <ogc:Literal>parkeerstrook</ogc:Literal>
        </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PolygonSymbolizer>
        <Fill>
            <SvgParameter name="fill">#885555</SvgParameter>
            <SvgParameter name="fill-opacity">0.6</SvgParameter>
        </Fill>
        <Stroke>
            <SvgParameter name="stroke">#FFFFFF</SvgParameter>
            <SvgParameter name="stroke-width">2</SvgParameter>
        </Stroke>
    </PolygonSymbolizer>
</Rule>
<Rule>
    <ogc:Filter>
        <ogc:PropertyIsEqualTo>
            <ogc:PropertyName>verhfun_n</ogc:PropertyName>
            <ogc:Literal>inrit</ogc:Literal>
        </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PolygonSymbolizer>
        <Fill>
            <SvgParameter name="fill">#888855</SvgParameter>
            <SvgParameter name="fill-opacity">0.6</SvgParameter>
        </Fill>
        <Stroke>
            <SvgParameter name="stroke">#FFFFFF</SvgParameter>
            <SvgParameter name="stroke-width">2</SvgParameter>
        </Stroke>
    </PolygonSymbolizer>
</Rule>
<Rule>
    <ogc:Filter>
        <ogc:PropertyIsEqualTo>
            <ogc:PropertyName>verhfun_n</ogc:PropertyName>
            <ogc:Literal>voetpad</ogc:Literal>
        </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <PolygonSymbolizer>
        <Fill>
            <SvgParameter name="fill">#558888</SvgParameter>
            <SvgParameter name="fill-opacity">0.6</SvgParameter>
        </Fill>
        <Stroke>
            <SvgParameter name="stroke">#FFFFFF</SvgParameter>
            <SvgParameter name="stroke-width">2</SvgParameter>
        </Stroke>
    </PolygonSymbolizer>
</Rule>
</FeatureTypeStyle>

```

2.3.4 Polygon with text



SLD code:

```
<FeatureTypeStyle>
<FeatureTypeName>NL:panden</FeatureTypeName>
<Rule>
  <PolygonSymbolizer>
    <Fill>
      <SvgParameter name="fill">#8888DD</SvgParameter>
      <SvgParameter name="fill-opacity">0.4</SvgParameter>
    </Fill>
    <Stroke>
      <SvgParameter name="stroke">#FFFFFF</SvgParameter>
      <SvgParameter name="stroke-width">2</SvgParameter>
    </Stroke>
  </PolygonSymbolizer>
  <TextSymbolizer>
    <Label><ogc:PropertyName>pandstatus</ogc:PropertyName></Label>
    <Halo>
      <Fill>
        <SvgParameter name="fill">#FFFFFF</SvgParameter>
      </Fill>
    </Halo>
    <LabelPlacement>
      <PointPlacement/>
    </LabelPlacement>
  </TextSymbolizer>
  <TextSymbolizer>
    <Label><ogc:PropertyName>bouwjaar</ogc:PropertyName></Label>
    <Halo>
      <Fill>
        <SvgParameter name="fill">#FFFFFF</SvgParameter>
      </Fill>
    </Halo>
    <LabelPlacement>
      <PointPlacement>
        <AnchorPoint>
          <AnchorPointX>0.5</AnchorPointX>
        </AnchorPoint>
      </PointPlacement>
    </LabelPlacement>
  </TextSymbolizer>
</Rule>
</FeatureTypeStyle>
```

```

        <AnchorPointY>0.5</AnchorPointY>
    </AnchorPoint>
    <Displacement>
        <DisplacementX>0</DisplacementX>
        <DisplacementY>-10</DisplacementY>
    </Displacement>
</PointPlacement>
</LabelPlacement>
</TextSymbolizer>
</Rule>
</FeatureTypeStyle>

```

2.4 Vendor options

2.4.1 excludeFromCyclorama

The `excludeFromCyclorama` vendor option specifies if a given rule should **not** be applied to a cyclorama.

Example:

```

<Rule>
    <VendorOption name = "excludeFromCyclorama"/>
    <PointSymbolizer>
        ..
    </PointSymbolizer>
</Rule>

```

2.4.2 excludeFromMap

The `excludeFromMap` vendor option specifies if a given rule should **not** be applied to the map

Example:

```

<Rule>
    <VendorOption name = "excludeFromMap"/>
    <PointSymbolizer>
        ..
    </PointSymbolizer>
</Rule>

```

2.4.3 dynamicOnlineResource

The `dynamicOnlineResource` vendor option can be used to dynamically construct an `onlineResource` based on one or more column values. The `PropertyName` specifies the column name and can be used one or multiple times.

Internally the online resource will be: `http://www.myimages.com/images/{0}.png`
`{0}` is replaced by the content from the column specified by `PropertyName`

Example:

```
<Rule>
  <VendorOption name = "excludeFromCyclorama"/>
  <PointSymbolizer>
    <Graphic>
      <ExternalGraphic>
        <VendorOption name="dynamicOnlineResource">
          http://www.myimages.com/images/<ogc:PropertyName>model_type</ogc:PropertyName>.png
        </VendorOption>
        <Format>image/png</Format>
      </ExternalGraphic>
      <Size>25</Size>
    </Graphic>
  </PointSymbolizer>
</Rule>
```

2.4.4 perspectiveLine

See paragraph 'Perspective lines in cyclorama'

2.4.5 perspectiveLineWidth

See paragraph 'Perspective lines in cyclorama'

2.4.6 Example sld code

```
<FeatureTypeStyle>
  <FeatureTypeName>NL:items</FeatureTypeName>
  <Rule>
    <VendorOption name = "excludeFromCyclorama"/>
    <PointSymbolizer>
      <Graphic>
        <ExternalGraphic>
          <VendorOption name="dynamicOnlineResource">
            <ogc:PropertyName>image_url</ogc:PropertyName>
          </VendorOption>
          <Format>image/png</Format>
        </ExternalGraphic>
        <Size>25</Size>
      </Graphic>
    </PointSymbolizer>
  </Rule>
  <Rule>
    <VendorOption name="excludeFromMap"/>
    <PointSymbolizer>
      <Graphic>
        <ExternalGraphic>
          <VendorOption name="dynamicOnlineResource">
            <ogc:PropertyName>image_url</ogc:PropertyName>
          </VendorOption>
          <Format>image/png</Format>
        </ExternalGraphic>
      </Graphic>
    </PointSymbolizer>
  </Rule>
</FeatureTypeStyle>
```

```
        </ExternalGraphic>
        <Size>50</Size>
    </Graphic>
</PointSymbolizer>
</Rule>
</FeatureTypeStyle>
```

3 Additional information

3.1 Convert SLD 1.0 to SLD/SE 1.1

If you need to convert a sld based on version 1.0 to version 1.1, the following things should be done.

- Rename `CssParameter` to `SvgParameter`
- All non OGC (filters) elements inside `FeatureTypeStyle` should have **se** namespace (in 1.0 this is **sld** namespace). Example:

Old:

```
<sld:UserStyle>
  <sld:FeatureTypeStyle>
    <sld:FeatureTypeName>NL:maasgouw_wegvakonderdelen</sld:FeatureTypeName>
    <sld:Rule>
      <ogc:Filter>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>verhfun_n</ogc:PropertyName>
          <ogc:Literal>trottoir</ogc:Literal>
        </ogc:PropertyIsEqualTo>
      </ogc:Filter>
      <sld:PolygonSymbolizer>
        <sld:Fill>
          <sld:CssParameter name="fill">#555588</sld:CssParameter>
        </sld:Fill>
      </sld:PolygonSymbolizer>
    </sld:Rule>
  </sld:FeatureTypeStyle>
</sld:UserStyle>
```

New:

```
<sld:UserStyle>
  <FeatureTypeStyle>
    <FeatureTypeName>NL:maasgouw_wegvakonderdelen</FeatureTypeName>
    <Rule>
      <ogc:Filter>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>verhfun_n</ogc:PropertyName>
          <ogc:Literal>trottoir</ogc:Literal>
        </ogc:PropertyIsEqualTo>
      </ogc:Filter>
      <PolygonSymbolizer>
        <Fill>
          <SvgParameter name="fill">#555588</SvgParameter>
        </Fill>
      </PolygonSymbolizer>
    </Rule>
  </FeatureTypeStyle>
</sld:UserStyle>
```

- Use the correct namespaces in the SLD header:

```
<sld:StyledLayerDescriptor
  version="1.1.0"
  xsi:schemaLocation="http://www.opengis.net/sld
StyledLayerDescriptor.xsd"
  xmlns:sld="http://www.opengis.net/sld"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns="http://www.opengis.net/se"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  >
```

