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Style Commands

Create

Create a simple style.

Short Name	Long Name	Description
-s	--style-options	A style options
-t	--type	The output type (sld or ysld)
-w	--writer-options	The StyleWriter options
-o	--output	The output file
	--help	Print the help message
	--web-help	Open help in a browser

Style Options:

- Fill properties
  - **fill** (color)
  - **fill-opacity** (0-1)
- Stroke properties
  - **stroke** (color)
  - **stroke-width** (double)
  - **stroke-opacity** (0-1)
- Shape properties
  - **shape** (color)
  - **shape-size** (double)
  - **shape-type** (circle, square, triangle, star, cross, or x)
- Label properties
  - **label** The field name (ID, NAME)

- **label-size** (12)
- **label-style** (normal, italic, oblique)
- **label-weight** (normal, bold)
- **label-family** (serif, Arial, Verdana)

```
geoc style create -s stroke=navy -s stroke-width=0.5 -t sld -o target/boundaries.sld
```

```
<?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor xmlns=
"http://www.opengis.net/sld" xmlns:sld="http://www.opengis.net/sld" xmlns:gml=
"http://www.opengis.net/gml" xmlns:ogc="http://www.opengis.net/ogc" version="1.0.0">
  <sld:UserLayer>
    <sld:LayerFeatureConstraints>
      <sld:FeatureTypeConstraint/>
    </sld:LayerFeatureConstraints>
    <sld:UserStyle>
      <sld:Name>Default Styler</sld:Name>
      <sld:FeatureTypeStyle>
        <sld:Name>name</sld:Name>
        <sld:Rule>
          <sld:LineSymbolizer>
            <sld:Stroke>
              <sld:CssParameter name="stroke">#000080</sld:CssParameter>
              <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
            </sld:Stroke>
          </sld:LineSymbolizer>
        </sld:Rule>
      </sld:FeatureTypeStyle>
    </sld:UserStyle>
  </sld:UserLayer>
</sld:StyledLayerDescriptor>
```

```
geoc style create -s fill=white -s stroke=black -s stroke-width=1.5 -t ysld -o
target/boundaries.ysld
```

```
name: Default Styler
feature-styles:
- name: name
  rules:
  - scale: [min, max]
    symbolizers:
    - polygon:
        fill-color: '#FFFFFF'
        fill-opacity: 0.6
    - line:
        stroke-color: '#000000'
        stroke-width: 1.5
```

CSS to SLD

Convert CSS to SLD.

Short Name	Long Name	Description
-i	--input	The input file or url
-o	--output	The output file
-w	--writer-options	The StyleWriter options
	--help	Print the help message
	--web-help	Open help in a browser

```
geoc style css2sld -i target/points.css -o target/points.sld
```

points.css

```
* {
   mark: symbol(circle);
   mark-size: 6px;
 }

 :mark {
   fill: red;
 }
```

points.sld

```
<?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor xmlns=
"http://www.opengis.net/sld" xmlns:sld="http://www.opengis.net/sld" xmlns:gml=
"http://www.opengis.net/gml" xmlns:ogc="http://www.opengis.net/ogc" version="1.0.0">
  <sld:UserLayer>
    <sld:LayerFeatureConstraints>
      <sld:FeatureTypeConstraint/>
    </sld:LayerFeatureConstraints>
    <sld:UserStyle>
      <sld:Name>Default Styler</sld:Name>
      <sld:FeatureTypeStyle>
        <sld:Rule>
          <sld:PointSymbolizer>
            <sld:Graphic>
              <sld:Mark>
                <sld:WellKnownName>circle</sld:WellKnownName>
                <sld:Fill>
                  <sld:CssParameter name="fill">#ff0000</sld:CssParameter>
                </sld:Fill>
              </sld:Mark>
              <sld:Size>6</sld:Size>
            </sld:Graphic>
          </sld:PointSymbolizer>
        </sld:Rule>
        <sld:VendorOption name="ruleEvaluation">first</sld:VendorOption>
      </sld:FeatureTypeStyle>
    </sld:UserStyle>
  </sld:UserLayer>
</sld:StyledLayerDescriptor>
```

SLD to Ysld

Convert SLD to Ysld

Short Name	Long Name	Description
-i	--input	The input file or url
-o	--output	The output file
	--help	Print the help message
	--web-help	Open help in a browser

```
geoc style sld2ysld -i target/points.sld -o target/points.ysld
```

points.sld

```
<?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor xmlns=
"http://www.opengis.net/sld" xmlns:sld="http://www.opengis.net/sld" xmlns:gml=
"http://www.opengis.net/gml" xmlns:ogc="http://www.opengis.net/ogc" version="1.0.0">
  <sld:UserLayer>
    <sld:LayerFeatureConstraints>
      <sld:FeatureTypeConstraint/>
    </sld:LayerFeatureConstraints>
    <sld:UserStyle>
      <sld:Name>Default Styler</sld:Name>
      <sld:FeatureTypeStyle>
        <sld:Rule>
          <sld:PointSymbolizer>
            <sld:Graphic>
              <sld:Mark>
                <sld:WellKnownName>circle</sld:WellKnownName>
                <sld:Fill>
                  <sld:CssParameter name="fill">#ff0000</sld:CssParameter>
                </sld:Fill>
              </sld:Mark>
              <sld:Size>6</sld:Size>
            </sld:Graphic>
          </sld:PointSymbolizer>
        </sld:Rule>
        <sld:VendorOption name="ruleEvaluation">first</sld:VendorOption>
      </sld:FeatureTypeStyle>
    </sld:UserStyle>
  </sld:UserLayer>
</sld:StyledLayerDescriptor>
```

points.ysld

```
name: Default Styler
feature-styles:
- name: name
  rules:
  - scale: [min, max]
    symbolizers:
    - point:
        size: 6
        symbols:
        - mark:
            shape: circle
            fill-color: '#FF0000'
  x-ruleEvaluation: first
```

Ysld to SLD

Convert Ysld to SLD.

Short Name	Long Name	Description
-i	--input	The input file or url
-o	--output	The output file
-w	--writer-options	The StyleWriter options
	--help	Print the help message
	--web-help	Open help in a browser

```
geoc style ysld2sld -i target/points.ysld -o target/points.sld
```

points.ysld

```
name: Default Styler
feature-styles:
- name: name
  rules:
  - scale: [min, max]
    symbolizers:
    - point:
        size: 6
        symbols:
        - mark:
            shape: circle
            fill-color: '#FF0000'
  x-ruleEvaluation: first
```

points.sld

```
<?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor xmlns=
"http://www.opengis.net/sld" xmlns:sld="http://www.opengis.net/sld" xmlns:gml=
"http://www.opengis.net/gml" xmlns:ogc="http://www.opengis.net/ogc" version="1.0.0">
  <sld:UserLayer>
    <sld:LayerFeatureConstraints>
      <sld:FeatureTypeConstraint/>
    </sld:LayerFeatureConstraints>
    <sld:UserStyle>
      <sld:Name>Default Styler</sld:Name>
      <sld:FeatureTypeStyle>
        <sld:Name>name</sld:Name>
        <sld:Rule>
          <sld:PointSymbolizer>
            <sld:Graphic>
              <sld:Mark>
                <sld:WellKnownName>circle</sld:WellKnownName>
                <sld:Fill>
                  <sld:CssParameter name="fill">#FF0000</sld:CssParameter>
                </sld:Fill>
              </sld:Mark>
              <sld:Size>6</sld:Size>
            </sld:Graphic>
          </sld:PointSymbolizer>
        </sld:Rule>
        <sld:VendorOption name="ruleEvaluation">first</sld:VendorOption>
      </sld:FeatureTypeStyle>
    </sld:UserStyle>
  </sld:UserLayer>
</sld:StyledLayerDescriptor>
```

Unique Values from Text

Create a Style from reading values in the unique values format.

Short Name	Long Name	Description
-f	--field	The field
-g	--geometry-type	The geometry type (point, linestring, polygon)
-i	--input	The input file or url
-t	--type	The output type (sld or ysld)
-o	--output	The output file
-w	--writer-options	The StyleWriter options
	--help	Print the help message
	--web-help	Open help in a browser

```
geoc style uniquevaluesfromtext -i target/units.txt -f UNIT -g polygon -t sld -o
target/units.sld
```

units.txt

```
AHa=#aa0c74
AHat=#b83b1f
AHcf=#964642
AHh=#78092e
AHpe=#78092e
AHt=#5f025a
AHt3=#e76161
Aa1=#fcedcd
Aa2=#94474b
```

units.sld

```
<?xml version="1.0" encoding="UTF-8"?><sld:StyledLayerDescriptor xmlns=
"http://www.opengis.net/sld" xmlns:sld="http://www.opengis.net/sld" xmlns:gml=
"http://www.opengis.net/gml" xmlns:ogc="http://www.opengis.net/ogc" version="1.0.0">
  <sld:UserLayer>
    <sld:LayerFeatureConstraints>
      <sld:FeatureTypeConstraint/>
    </sld:LayerFeatureConstraints>
    <sld:UserStyle>
      <sld:Name>Default Styler</sld:Name>
      <sld:FeatureTypeStyle>
        <sld:Name>name</sld:Name>
        <sld:Rule>
          <ogc:Filter>
            <ogc:PropertyIsEqualTo>
              <ogc:PropertyName>UNIT</ogc:PropertyName>
              <ogc:Literal>AHa</ogc:Literal>
            </ogc:PropertyIsEqualTo>
          </ogc:Filter>
          <sld:PolygonSymbolizer>
            <sld:Fill>
              <sld:CssParameter name="fill">#aa0c74</sld:CssParameter>
            </sld:Fill>
          </sld:PolygonSymbolizer>
          <sld:LineSymbolizer>
            <sld:Stroke>
              <sld:CssParameter name="stroke">#760851</sld:CssParameter>
              <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
            </sld:Stroke>
          </sld:LineSymbolizer>
        </sld:Rule>
        <sld:Rule>
```

```
      <ogc:Filter>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>UNIT</ogc:PropertyName>
          <ogc:Literal>AHat</ogc:Literal>
        </ogc:PropertyIsEqualTo>
      </ogc:Filter>
      <sld:PolygonSymbolizer>
        <sld:Fill>
          <sld:CssParameter name="fill">#b83b1f</sld:CssParameter>
        </sld:Fill>
      </sld:PolygonSymbolizer>
      <sld:LineSymbolizer>
        <sld:Stroke>
          <sld:CssParameter name="stroke">#802915</sld:CssParameter>
          <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
        </sld:Stroke>
      </sld:LineSymbolizer>
    </sld:Rule>
    <sld:Rule>
      <ogc:Filter>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>UNIT</ogc:PropertyName>
          <ogc:Literal>AHcf</ogc:Literal>
        </ogc:PropertyIsEqualTo>
      </ogc:Filter>
      <sld:PolygonSymbolizer>
        <sld:Fill>
          <sld:CssParameter name="fill">#964642</sld:CssParameter>
        </sld:Fill>
      </sld:PolygonSymbolizer>
      <sld:LineSymbolizer>
        <sld:Stroke>
          <sld:CssParameter name="stroke">#69312e</sld:CssParameter>
          <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
        </sld:Stroke>
      </sld:LineSymbolizer>
    </sld:Rule>
    <sld:Rule>
      <ogc:Filter>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>UNIT</ogc:PropertyName>
          <ogc:Literal>AHh</ogc:Literal>
        </ogc:PropertyIsEqualTo>
      </ogc:Filter>
      <sld:PolygonSymbolizer>
        <sld:Fill>
          <sld:CssParameter name="fill">#78092e</sld:CssParameter>
        </sld:Fill>
      </sld:PolygonSymbolizer>
      <sld:LineSymbolizer>
        <sld:Stroke>
```

```
        <sld:CssParameter name="stroke">#540620</sld:CssParameter>
        <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
      </sld:Stroke>
    </sld:LineSymbolizer>
  </sld:Rule>
  <sld:Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>UNIT</ogc:PropertyName>
        <ogc:Literal>AHpe</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <sld:PolygonSymbolizer>
      <sld:Fill>
        <sld:CssParameter name="fill">#78092e</sld:CssParameter>
      </sld:Fill>
    </sld:PolygonSymbolizer>
    <sld:LineSymbolizer>
      <sld:Stroke>
        <sld:CssParameter name="stroke">#540620</sld:CssParameter>
        <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
      </sld:Stroke>
    </sld:LineSymbolizer>
  </sld:Rule>
  <sld:Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>UNIT</ogc:PropertyName>
        <ogc:Literal>AHt</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <sld:PolygonSymbolizer>
      <sld:Fill>
        <sld:CssParameter name="fill">#5f025a</sld:CssParameter>
      </sld:Fill>
    </sld:PolygonSymbolizer>
    <sld:LineSymbolizer>
      <sld:Stroke>
        <sld:CssParameter name="stroke">#42013e</sld:CssParameter>
        <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
      </sld:Stroke>
    </sld:LineSymbolizer>
  </sld:Rule>
  <sld:Rule>
    <ogc:Filter>
      <ogc:PropertyIsEqualTo>
        <ogc:PropertyName>UNIT</ogc:PropertyName>
        <ogc:Literal>AHt3</ogc:Literal>
      </ogc:PropertyIsEqualTo>
    </ogc:Filter>
    <sld:PolygonSymbolizer>
```

```
          <sld:Fill>
            <sld:CssParameter name="fill">#e76161</sld:CssParameter>
          </sld:Fill>
        </sld:PolygonSymbolizer>
        <sld:LineSymbolizer>
          <sld:Stroke>
            <sld:CssParameter name="stroke">#a14343</sld:CssParameter>
            <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
          </sld:Stroke>
        </sld:LineSymbolizer>
      </sld:Rule>
      <sld:Rule>
        <ogc:Filter>
          <ogc:PropertyIsEqualTo>
            <ogc:PropertyName>UNIT</ogc:PropertyName>
            <ogc:Literal>Aa1</ogc:Literal>
          </ogc:PropertyIsEqualTo>
        </ogc:Filter>
        <sld:PolygonSymbolizer>
          <sld:Fill>
            <sld:CssParameter name="fill">#fcedcd</sld:CssParameter>
          </sld:Fill>
        </sld:PolygonSymbolizer>
        <sld:LineSymbolizer>
          <sld:Stroke>
            <sld:CssParameter name="stroke">#b0a58f</sld:CssParameter>
            <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
          </sld:Stroke>
        </sld:LineSymbolizer>
      </sld:Rule>
      <sld:Rule>
        <ogc:Filter>
          <ogc:PropertyIsEqualTo>
            <ogc:PropertyName>UNIT</ogc:PropertyName>
            <ogc:Literal>Aa2</ogc:Literal>
          </ogc:PropertyIsEqualTo>
        </ogc:Filter>
        <sld:PolygonSymbolizer>
          <sld:Fill>
            <sld:CssParameter name="fill">#94474b</sld:CssParameter>
          </sld:Fill>
        </sld:PolygonSymbolizer>
        <sld:LineSymbolizer>
          <sld:Stroke>
            <sld:CssParameter name="stroke">#673134</sld:CssParameter>
            <sld:CssParameter name="stroke-width">0.5</sld:CssParameter>
          </sld:Stroke>
        </sld:LineSymbolizer>
      </sld:Rule>
    </sld:FeatureTypeStyle>
  </sld:UserStyle>
```

```
  </sld:UserLayer>
</sld:StyledLayerDescriptor>
```