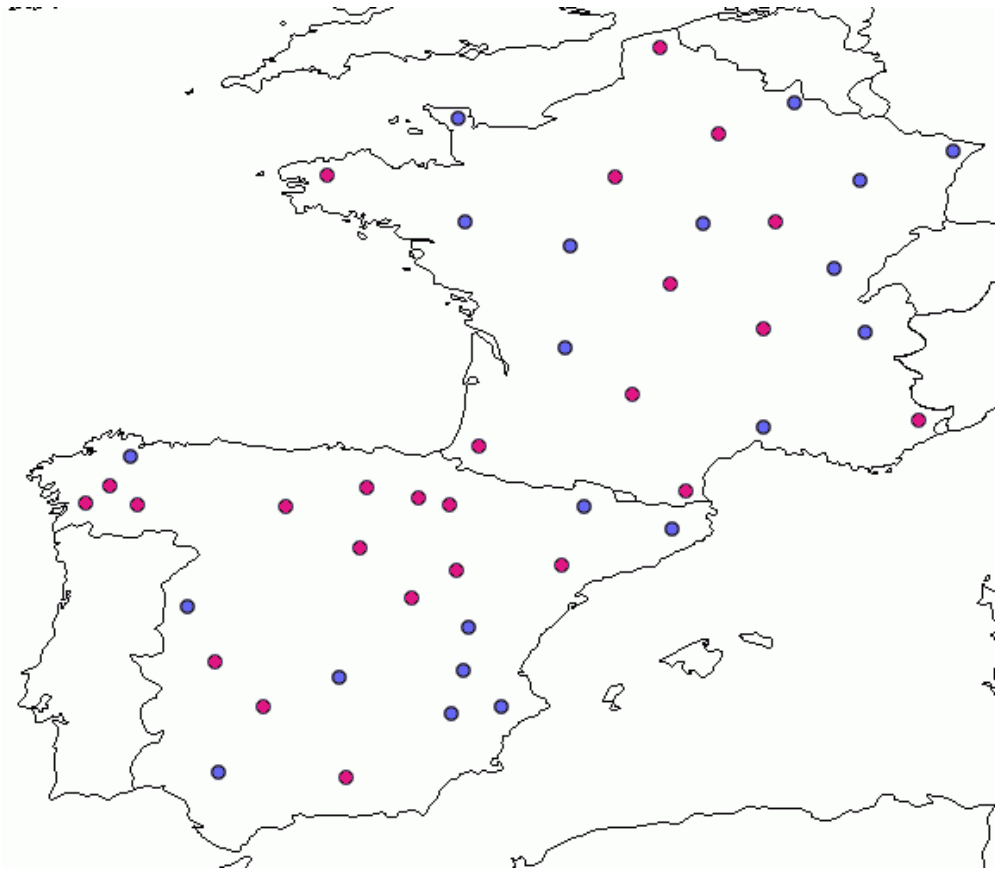


For example, we have dataset – birds (gooses and ducks) in France and Spain.



Filter them by country and style by color. Standard map-file syntax:

```
LAYER
NAME "ornito"
CONNECTIONTYPE POSTGIS
CONNECTION ...
DATA ...
FILTER (country = "france")
CLASS
  NAME "goose"
  EXPRESSION ("[species]" = "goose")
  STYLE
    COLOR 255 0 0
    OUTLINECOLOR 0 0 0
    SIZE 7
    SYMBOL "symbol_circle"
  END
END
CLASS
  NAME "duck"
  EXPRESSION ("[species]" = "duck")
  STYLE
    COLOR 0 0 255
    OUTLINECOLOR 0 0 0
    SIZE 7
    SYMBOL "symbol_circle"
  END
END
END
```

We have two tools: FILTER – load only necessary data, EXPRESSION – separate data for styles.

## Equal construction in SLD (simplified):

```
<StyledLayerDescriptor>

  <NamedLayer>
    <Name>ornito</Name>

    <!-- filter by countries -->
    <LayerFeatureConstraints>
      <FeatureTypeConstraint>
        <Filter>
          <PropertyIsEqualTo>
            <PropertyName>country</PropertyName>
            <Literal>france</Literal>
          </PropertyIsEqualTo>
        </Filter>
      </FeatureTypeConstraint>
    </LayerFeatureConstraints>

    <!-- style by species -->
    <UserStyle>
      <Name>species</Name>
      <FeatureTypeStyle>
        <Rule>
          <Name>goose</Name>
          <Filter>
            <PropertyIsEqualTo>
              <PropertyName>species</PropertyName>
              <Literal>goose</Literal>
            </PropertyIsEqualTo>
          </Filter>
          <PointSymbolizer>
            <!-- some code -->
          </PointSymbolizer>
        </Rule>
        <Rule>
          <Name>duck</Name>
          <Filter>
            <PropertyIsEqualTo>
              <PropertyName>species</PropertyName>
              <Literal>duck</Literal>
            </PropertyIsEqualTo>
          </Filter>
          <PointSymbolizer>
            <!-- some code -->
          </PointSymbolizer>
        </Rule>
      </FeatureTypeStyle>
    </UserStyle>

  </NamedLayer>
</StyledLayerDescriptor>
```

The same position: 'FeatureTypeConstraint' cut needless data, 'Rule' make styles.