Symbolising features

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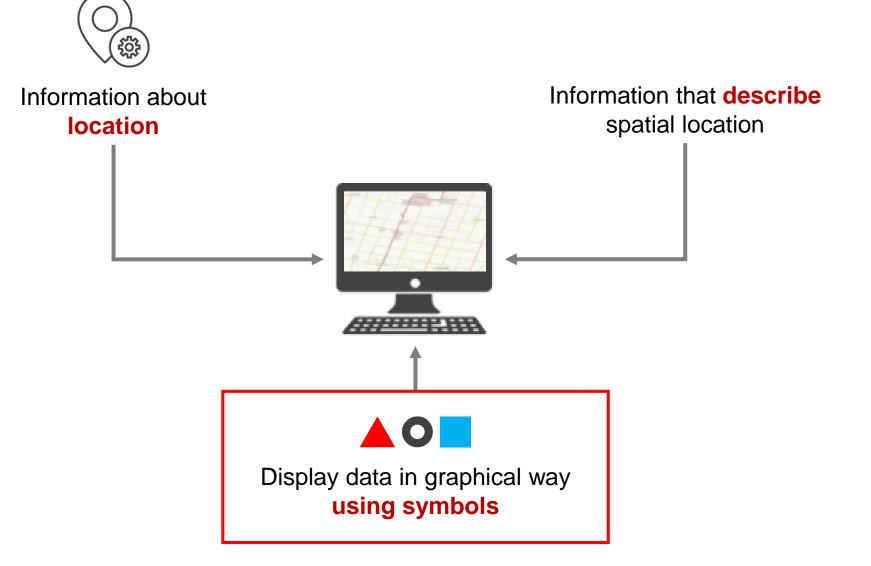


OIE Headquarters

Overview

- Symbology
- Symbology in QGIS (layer styles)

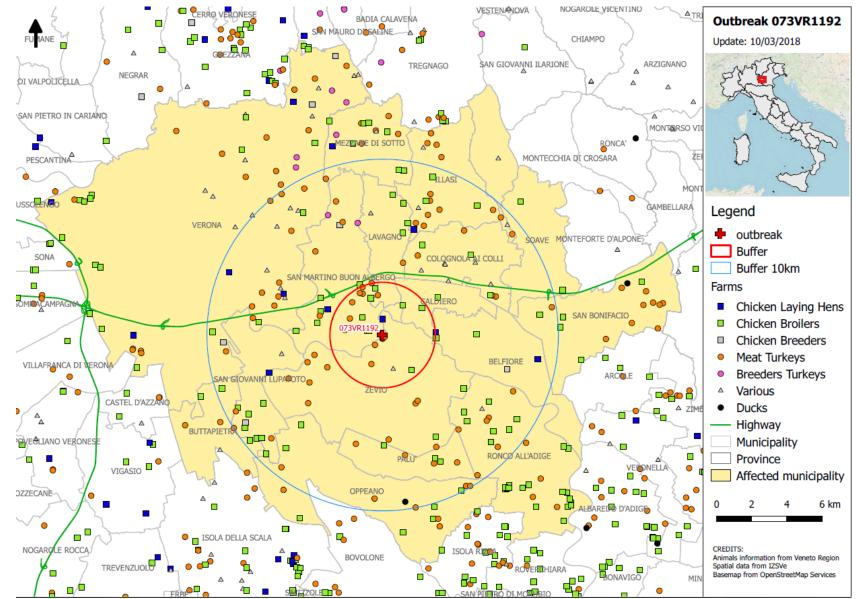
Symbology



Symbology

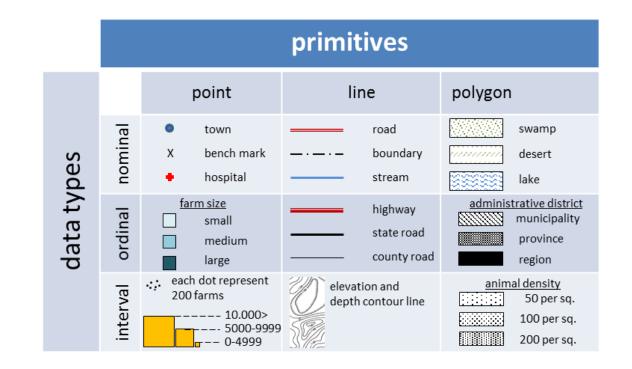
- Visualize information
- Communicate concepts

Symbology



Changing Symbology

- Colors
- Shapes and elements
- Dimensions
- Pattern/Fills



Right symbology

There isn't a unique right symbology. It depends on:

- The scale
 - Small scale (1:2.000.000) \rightarrow Less details
 - Large scale (1:5.000) → More details
- Type of element to represent
 - Event / Concept
 - Natural / anthropic element





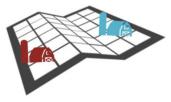


Right symbology

- Don't use too many information in the same map
- Split in different maps to reduce the «rainbow effect»









Changing Symbology in QGIS

| 🧭 Layer Properties - Farms Style | | | |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| General | 冒 Rule-based | | - |
| Style abc Labels Fields Fields Display Actions Joins Diagrams | Label Chicken Laying Hens Chicken Broilers Chicken Breeders Meat Turkeys Comparison Breeders Turkeys Various Comparison Ducks | Rule Species = 'CHICKENS' AND Production = 'LAYING HENS' Species = 'CHICKENS' AND Production = 'BROILERS' Species = 'CHICKENS' AND Production = 'BREEDERS' Species = 'TURKEYS' AND Production = 'MEAT TYPE' Species = 'TURKEYS' AND Production = 'BREEDERS' Species = 'DUCKS' | Min. scal |
| Metadata | • | Ш | • |
| Variables | | | Symbol levels |
| E Legend | Refine selected rules 🔻 | | |
| | Layer rendering Layer transparency Layer blending mode Feature blending mode | Normal | 0 🔷 |
| | Draw effects | | ⇒r) |
| | Control feature rendering order | | ă. |
| | Style 🔻 | OK Cancel | Apply Help |

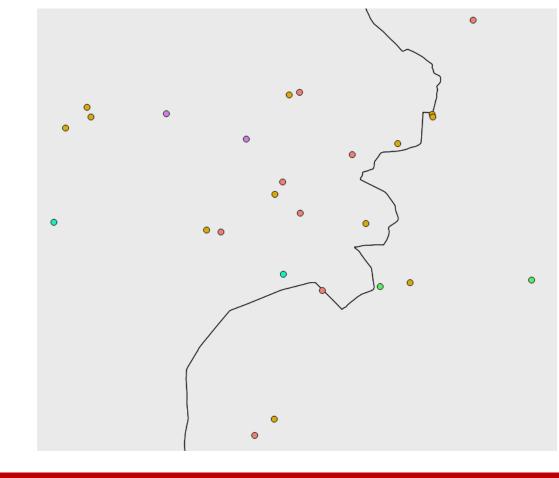
Changing Symbology

- No symbols
- Single symbol
- Categorized
- Graduated
- Rule-based

Symbolising by categorical attributes (Categorized)

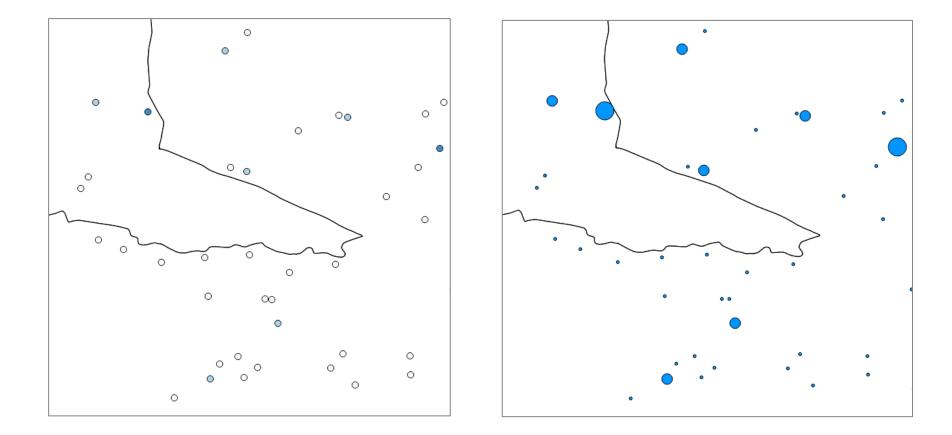
Industrial_farms (SPECIES)

- Chickens;
- Ducks;
- Turkeys;



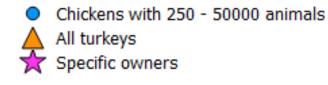
Symbolising by quantity attributes (graduated)

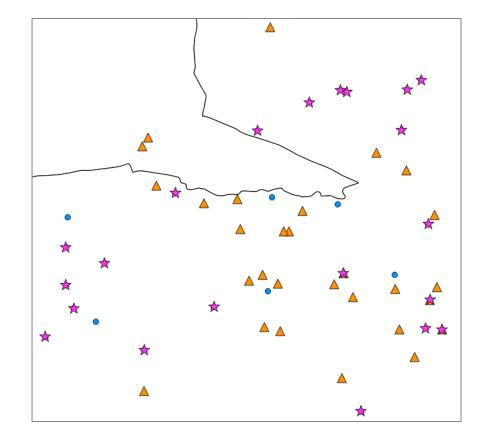
Industrial_farms (N_ANIMALS)



Symbolising by rules (Rule-based)

Specific symbols to specific group of element based on SQL rules defined by user.





SLD

Styled Layer Descriptor (SLD) is an XML schema specified by the Open Geospatial Consortium (OGC) for describing the appearance of map layers.

- A set of rules to describe layer symbology
- An OGC standard
- Use in the Geographyc Web Services
- QGIS may use it to style layers (but layer must be compliant with the SLD data structure)

Practical Exercise (1.8)

1_8_ex_symbology.doc

Objectives

- Change styles of the following layers
 - Highways,
 - Industrial_farms
 - Provinces