Data

The data which we wish to visualize. This data can be in different formats such as dataframe or a relational database.

Functorial Data Migration (Spivak, 2014).

Trasnformed Data

Functorial Aggegation

(Spivak, 2021).

Apply transformations such as aggregation, filtering, sampling.

Encoder

The encoder is responsible for translating the data into the geometric representation.

The grammar of graphics (Wilkinson, 2012).

Geometric Description

High-Level Representation

High-level language for producing vector graphics.

vector graphics

Diagrams: a functional edsl for (Yates and Yordey, 2015).

Existing Vector Graphics Format

Geometric representation translated into a vector graphics format such as SVG or PostFix.

Backend: SVG.

Rasterization

Turning graphical representation into pixels in the screen

Project Scope