Customizing Maps with D3



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Overview

Refactor code for extensibility

Drawing capital cities as points

Making a choropleth

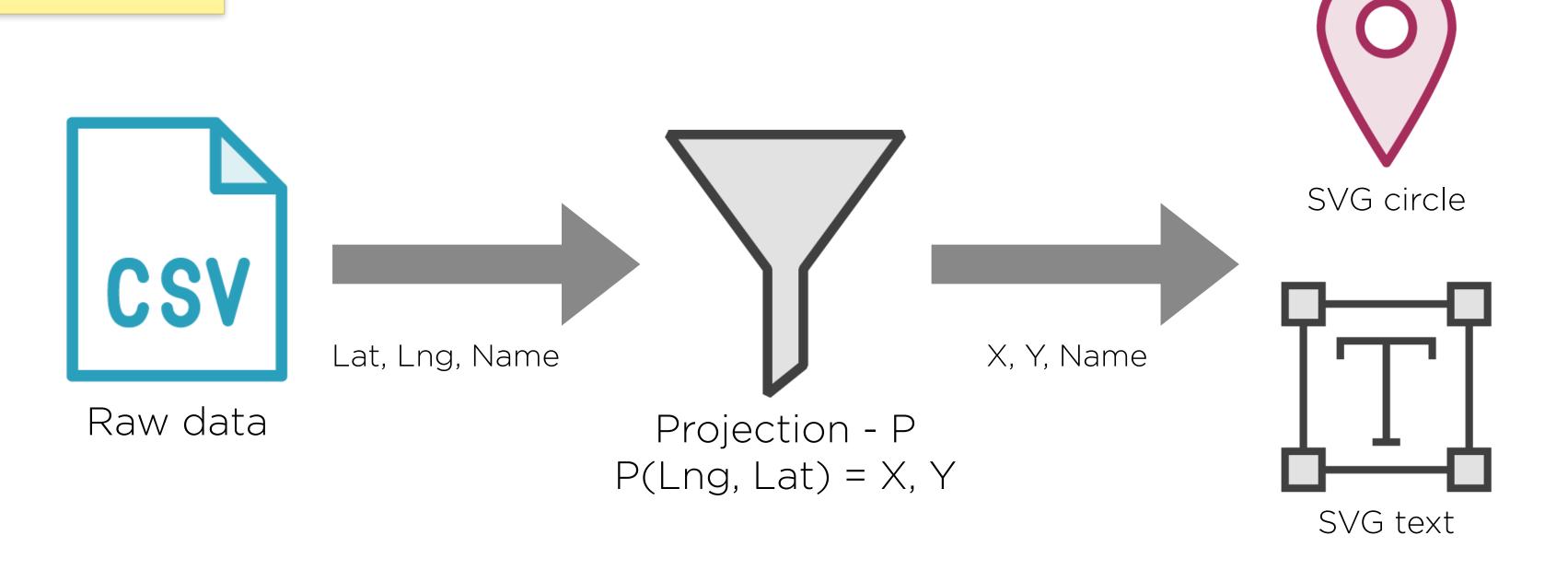
Creating a bubble map

Refactor code into functional chunks

Make use of object-oriented concepts

Build a foundation for the rest of the course

Drawing Points



Consume CSV data through API call
Add method to draw cities
Draw labelled points

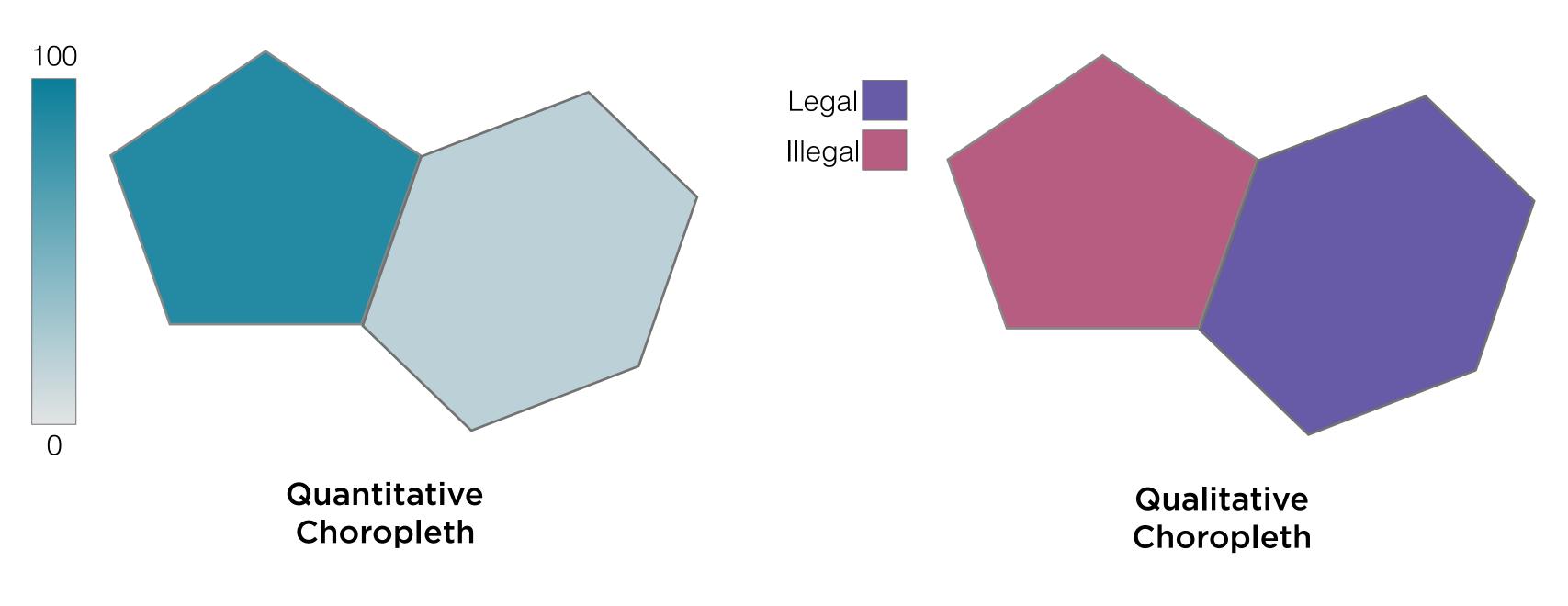
Choropleths

Areas are shaded

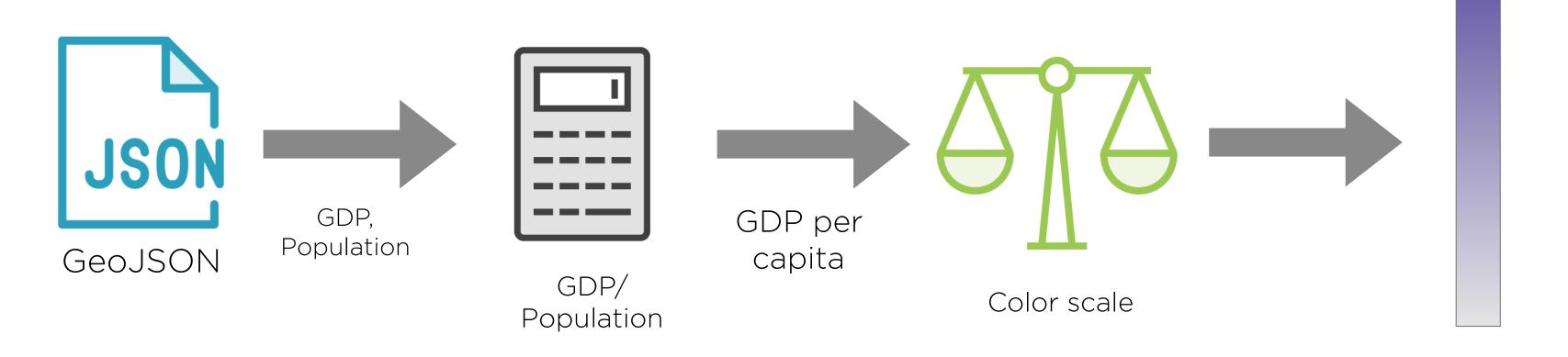
Color proportional to the value being measured

Popular visualization for quantitative and qualitative data

Choropleths



Drawing a Choropleth



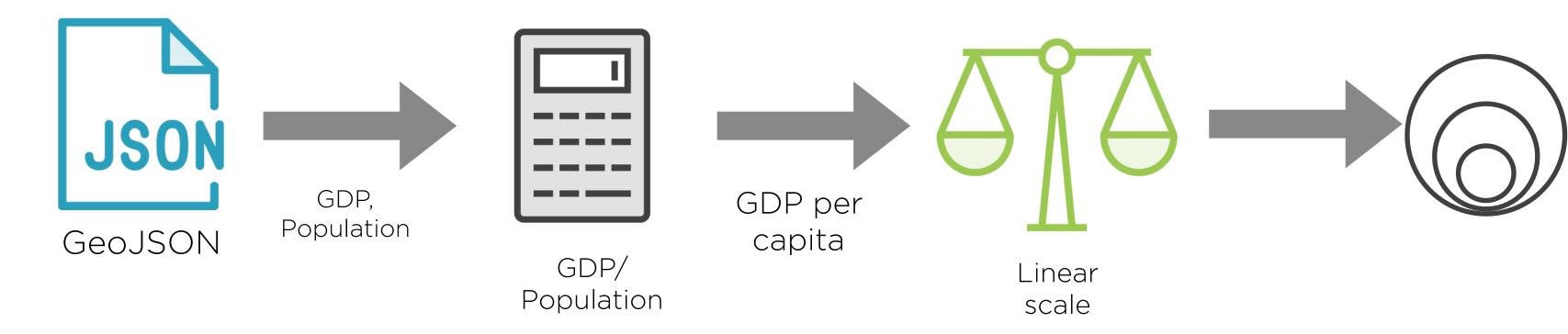
Calculate per capita GDP from data
Create a D3 color scale
Assign colours to country paths
Add a legend

Alternative Visualizations

Choropleths not suitable for visually impaired

Scale is more visual by using size instead of color

Drawing Bubble Maps



Create linear scale from data

Draw circles with a variable radius

Summary

Refactoring code into methods and attributes helps extensibility

Projections can be used to draw points from raw coordinate data

Choropleths convert a value into a color on the map

Bubble charts are a good alternative for size based visualizations