

Data visualization

COSC 480B

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Lecture 8

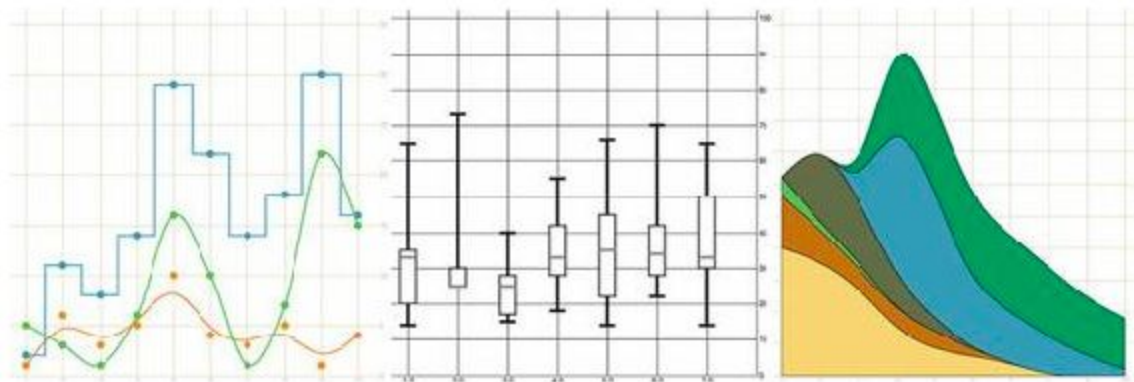
Chart components

Overview

- Creating and formatting axis components
- Creating legends
- Using line and area generators for charts
- Creating complex shapes consisting of multiple types of SVG elements

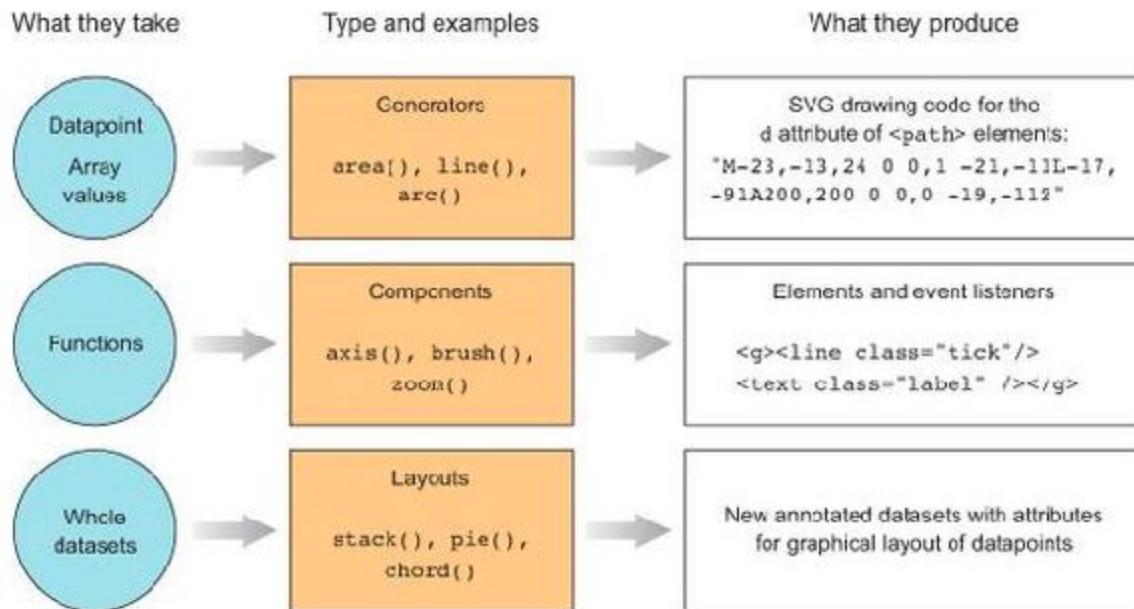
Overview

The charts we'll create in this chapter using D3 generators and components. From left to right: a line chart, a boxplot, and a streamgraph.



General charting principles

The three main types of functions found in D3 can be classified as generators, components, and layouts. You'll see components and generators in this chapter and layouts in the next chapter.



General charting principles

- Generators: draw shapes from data points
 - Area
 - Line
 - Arc
- Components: generators produces the attributes (d attribute), components create graphical objects like line, group etc
 - Axis
 - Brush
 - Zoom
- Layouts:
 - Pie chart
 - Force directed layouts