

Pro Data Visualization Using D3.js and Javascript

Data visualization is a powerful tool for communicating information and insights from data. It can help us to understand complex relationships, identify trends, and make informed decisions.



Pro Data Visualization Using R and JavaScript: Analyze and Visualize Key Data on the Web by Jon Westfall

★★★★☆ 4.1 out of 5

Language	: English
File size	: 17620 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 337 pages
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Item Weight	: 3.36 ounces
Dimensions	: 8.5 x 0.07 x 8.5 inches



D3.js is a powerful JavaScript library for creating interactive data visualizations. It provides a wide range of features for creating charts, graphs, and other visualizations.

In this article, we will explore some of the advanced features of D3.js and how they can be used to create professional-quality data visualizations.

Scales

Scales are used to map data values to visual properties, such as position, size, or color. D3.js provides a variety of scales, including linear scales, logarithmic scales, and ordinal scales.

Linear scales are used to map data values to a continuous range of values. Logarithmic scales are used to map data values to a logarithmic range of values. Ordinal scales are used to map data values to a discrete set of values.

```
var linearScale = d3.scaleLinear().domain([0, 100]).range([0, 500]);
```

Axes

Axes are used to provide a frame of reference for data visualizations. D3.js provides a variety of axes, including linear axes, logarithmic axes, and ordinal axes.

Linear axes are used to display a continuous range of values. Logarithmic axes are used to display a logarithmic range of values. Ordinal axes are used to display a discrete set of values.

```
var linearAxis = d3.axisBottom().scale(linearScale); var logarithmicAxis
```

Legends

Legends are used to explain the meaning of the symbols and colors used in a data visualization. D3.js provides a variety of legends, including color legends, size legends, and shape legends.

Color legends are used to explain the meaning of the colors used in a data visualization. Size legends are used to explain the meaning of the sizes used in a data visualization. Shape legends are used to explain the meaning of the shapes used in a data visualization.

```
var colorLegend = d3.legendColor() .scale(colorScale); var sizeLegend =
```

Interactivity

D3.js provides a variety of features for making data visualizations interactive. These features include panning, zooming, and brushing.

Panning allows users to move the data visualization around the screen. Zooming allows users to zoom in and out of the data visualization. Brushing allows users to select a subset of the data.

```
var zoom = d3.zoom() .scaleExtent([1, 10]) .on("zoom", zoomed); function
```

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In this article, we explored some of the advanced features of D3.js and how they can be used to create professional-quality data visualizations.

With D3.js, you can create data visualizations that are both informative and beautiful. So what are you waiting for? Start using D3.js today!



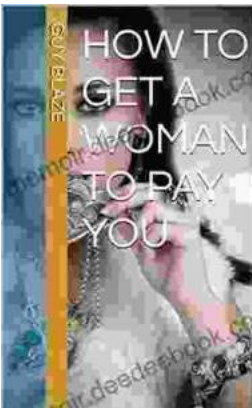
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