数据可视化

Week 11

Scale

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D3相关学习资料

书籍:

《数据可视化实战 实用D3设计交互式图表 第2版》

(英文版已上传至平台,讲的比较细致)

• 教学视频:

1.Shirley Wu: Introduction to D3.js (Observablehq平台)

https://www.bilibili.com/video/BV1ES4y177gR?share_source=copy_web

(很好的通过实例进行学习)

2. 清华计算机系春季的《数据可视化》

https://www.bilibili.com/video/BV1HK411L72d?share_source=copy_web

(节奏较快)

- quantitative ratings out of 10, number of votes
- temporal release dates
- spatial cities, countries

\downarrow

continuous

- position
 - *x, y*
- size width, height, radius, scale
- color sequential, diverging

continuous

• 视觉通道:

- nominal genres
- ordinal Parental Guidance ratings



discrete

- shape dots, squares, letters
- color categorical



discrete

d3.scale

continuous → continuous

- scaleLinear()
- scaleLog()
- scaleSqrt()
- scaleTime()

continuous → **discrete**

• scaleQuantize()

discrete → discrete

• scaleOrdinal()

discrete → continuous

scaleBand()

d3.scale

```
const scale = d3.scaleLinear()
 .domain([min, max]) // raw data
 .range([min, max]) // visual channel
scale(someValue) // returns translated value
To get min & max values from data:
d3.min(data, d => d[someAttr])
d3.max(data, d \Rightarrow d[someAttr])
d3.extent(data, d => d[someAttr]) // returns [min, max]
```