

山东大学计算机科学与技术学院

大数据分析实践课程实验报告

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实验题目：Canis 实践					
实验学时：4			实验日期：2025. 11. 14		
实验目标： 熟悉 Canis 的语法（“选择（selector）”、“划分(grouping)”、“时序效果(timing)”、“过渡效果（type）”）					
实验描述： 使用 Canis 提供的 Online Editor 进行操作					
1. Causes of Mortality over time 代码如下：					
<pre>{ "charts": [{ "source": "./charts/nightingale.dsvg" }], "animations": [{ "selector": ".rectangle", "grouping": { "groupBy": "Type", "reference": "start after previous", "grouping": { "groupBy": "id", "delay": 200 } }, "effects": [{ "type": "wheel", "duration": 600 }] }] }</pre>					
将"groupBy": "Type"改为"groupBy": "Time"，使动画生成顺序从按类型生成改为按月生成：					
<pre>11 "groupBy": "Month",</pre>					
2. Event Planning 代码如下：					

```

1 {
2   "constants": [
3     {
4       "name": "unitTime",
5       "value": 600
6     },
7     {
8       "name": "fastDuration",
9       "value": 300
10    }
11  ],
12  "charts": [
13    {
14      "source": "./charts/gantt.dsvg"
15    },
16  ],
17  "animations": [
18    {
19      "selector": ".axis-domain",
20      "effects": [
21        {
22          "type": "grow",
23          "duration": "fastDuration"
24        }
25      ],
26    },
27    {
28      "reference": "start after previous",
29      "selector": ".axis-tick, .axis-label",
30      "effects": [
31        {
32          "duration": "fastDuration",
33          "type": "fade"
34        }
35      ],
36    },
37    {
38      "reference": "start after previous",
39      "selector": ".text",
40      "effects": [
41        {
42          "offset": {
43            "field": "eventStartTime",
44            "minOffset": "unitTime"
45          },
46          "duration": "fastDuration",
47          "type": "wipe left"
48        }
49      ],
50    },
51    {
52      "selector": ".rectangle",
53      "effects": [
54        {
55          "offset": {
56            "field": "eventStartTime",
57            "minOffset": "unitTime"
58          },
59          "duration": {
60            "field": "eventDurationTime",
61            "minDuration": "unitTime"
62          },
63          "type": "wipe left"
64        }
65      ],
66    },
67  ],
68 }

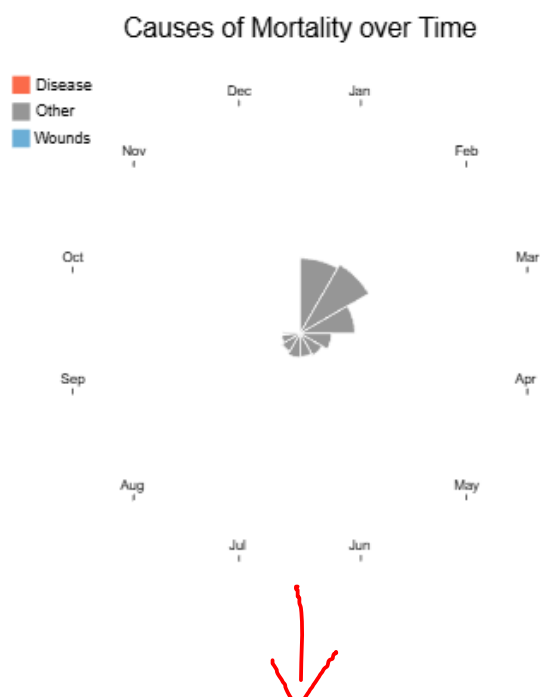
```

将".text"和".rectangle"的"type": "wipe left"改为"type": "wipe right", 使文本和矩形从右边开始出现。

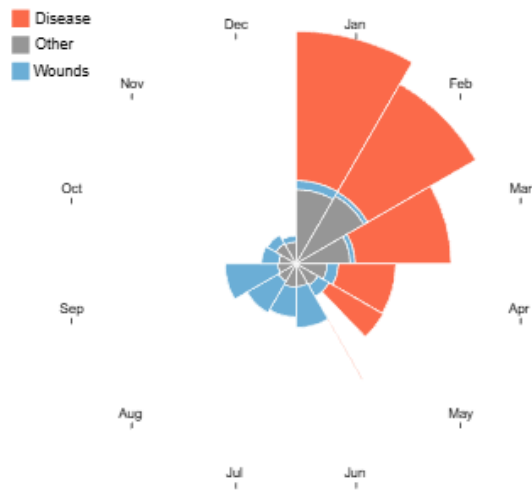
结果图片：

1. Causes of Mortality over time

"groupBy": "Type":

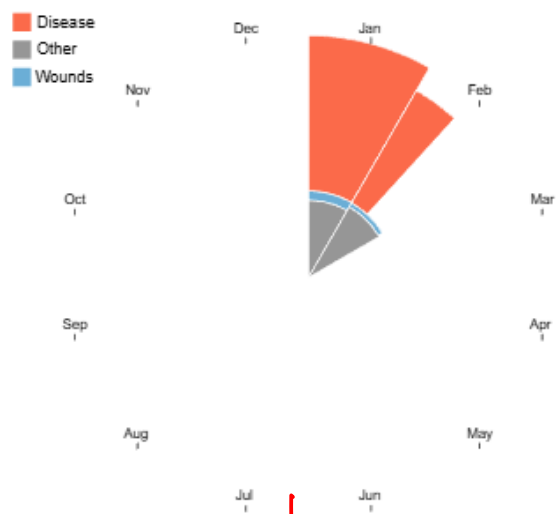


Causes of Mortality over Time

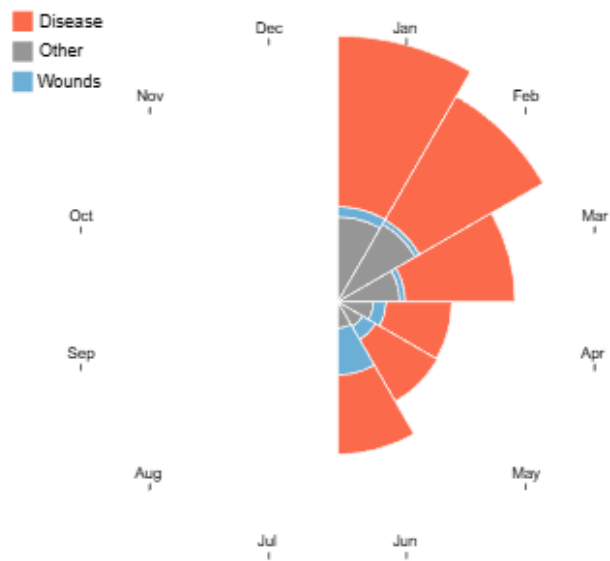


"groupBy": "Time":

Causes of Mortality over Time

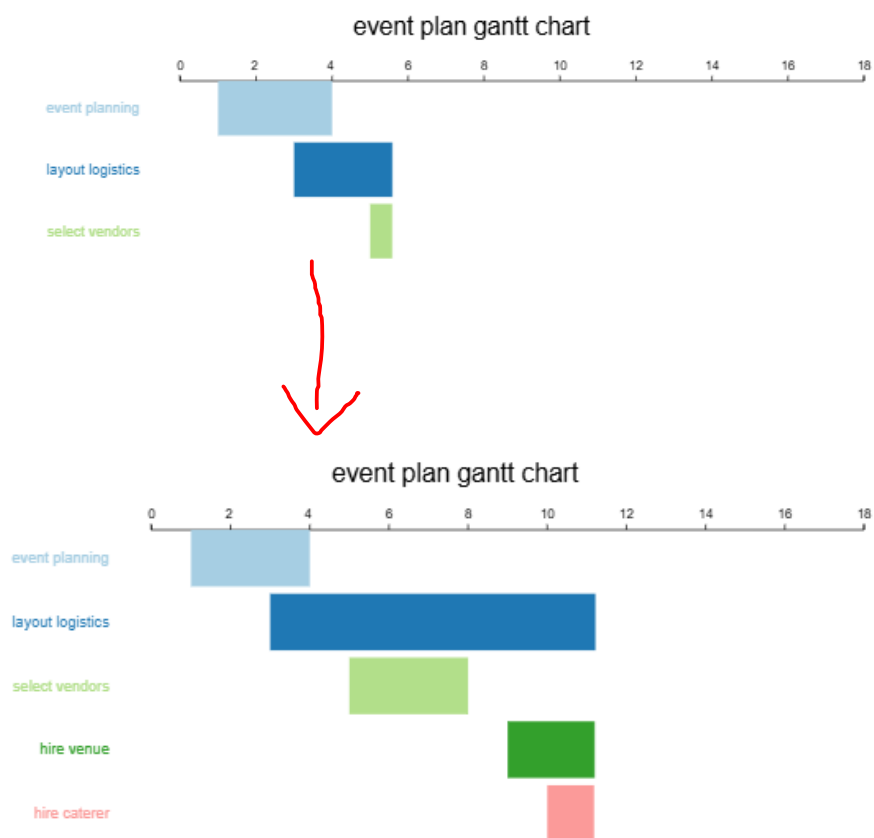


Causes of Mortality over Time



2. Event Planning

"wipe left":



"wipe right":

