

第一季 第4集

学会用“轮子”来帮助你完成工作？



s p e c

A agile ecosystem for earthquake sciences

难度：较难

时长：40分钟

知识点

- 1、 流程变量、DMS运行机制、eCharts、GMT6.0与pyGMT;
- 2、 Python语言与自定义节点;
- 3、 扩展节点介绍;

eCharts绘图组建应用

```
var tmpData=[];
for(var i = 0; i < pdata.length; i++){
    tmpData.push([pdata[i].年,pdata[i].Ms]);
}
```

```
option = {
    xAxis: {
    },
    yAxis: {
    },
    series: [{
        name: 'points',
        symbolSize: 5,
        data: tmpData,
        position: 'top'
    }
    ],
    type: 'scatter'
},
```

```
{
    name: 'bars',
    type: 'bar',
    data: tmpData,
    // Set `large` for large data
    amount
    large: true
}
];
```

配置项模糊搜索 (快捷键 '/')

配置项搜索 全文搜索 折叠

```
∨ .setOption({
  > title: {...},
  > legend: {...},
  > grid: {...},
  > xAxis: {...},
  ∨ yAxis: {
    id: ...,
    show: true,
    gridIndex: 0,
    position: ...,
    offset: 0,
    type: 'value',
    name: ...,
    nameLocation: 'end',
  > nameTextStyle: {...},
  nameGap: 15,
  nameRotate: null,
  inverse: false,
  boundaryGap: ...,
  min: null,
  max: null,
```

yAxis. position | string

[切换 v3.x 版本](#)

y 轴的位置。

可选:

- 'left'
- 'right'

默认 grid 中的第一个 y 轴在 grid 的左侧 ('left')，第二个 y 轴视第一个 y 轴的位置放在另一侧。

yAxis. offset | number

[default: 0]

Y 轴相对于默认位置的偏移，在相同的 position 上有多个 Y 轴的时候有用。

yAxis. type | string

[default: 'value']

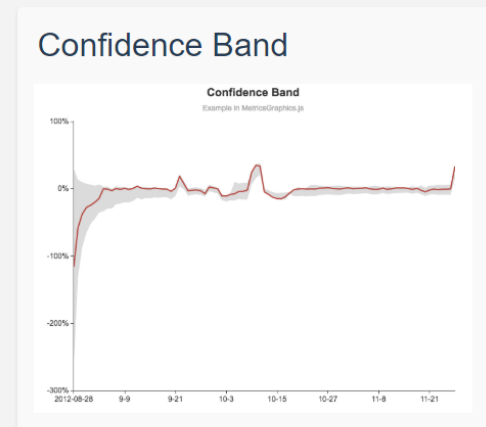
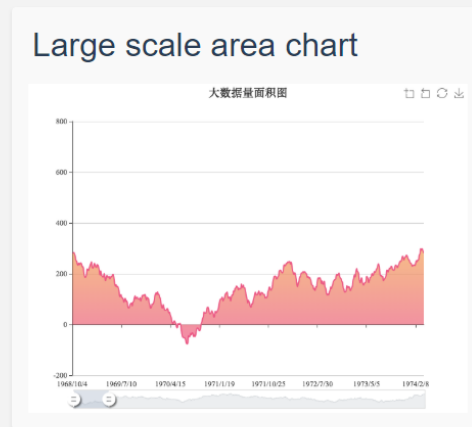
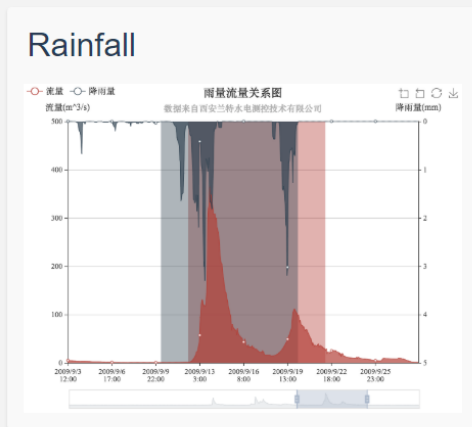
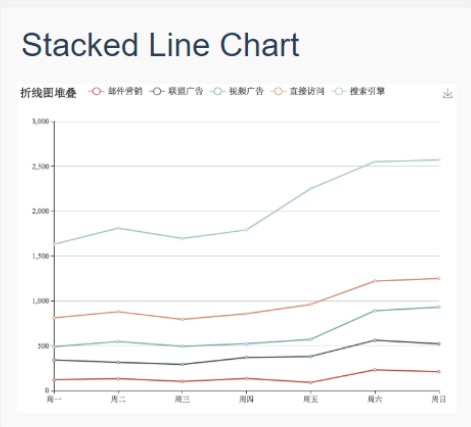
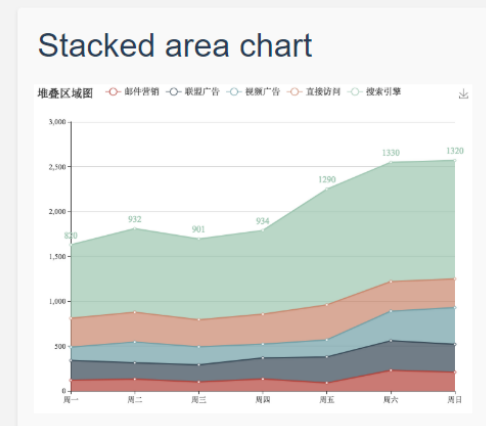
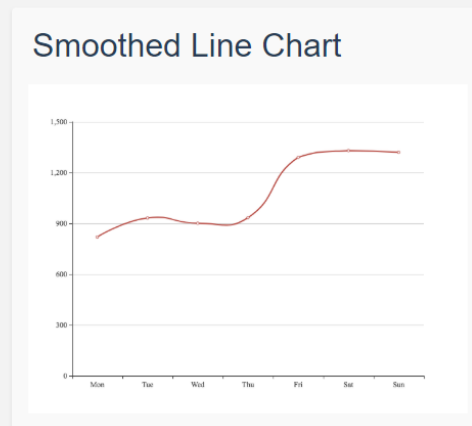
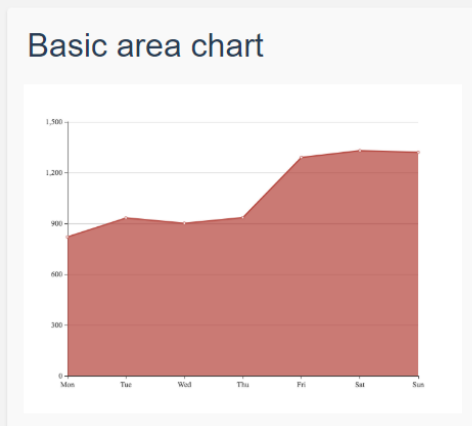
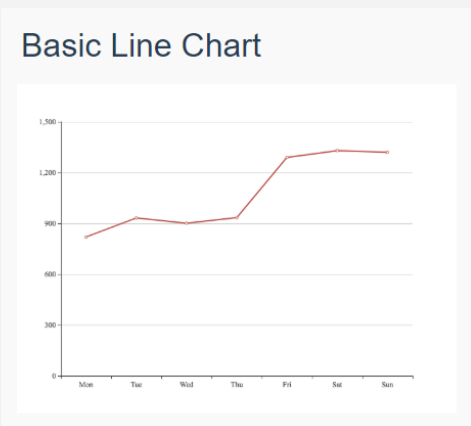
坐标轴类型。

可选:

- 折线图
- 柱状图
- 饼图
- 散点图
- 地理坐标/地图
- K线图
- 雷达图
- 盒须图
- 热力图
- 关系图

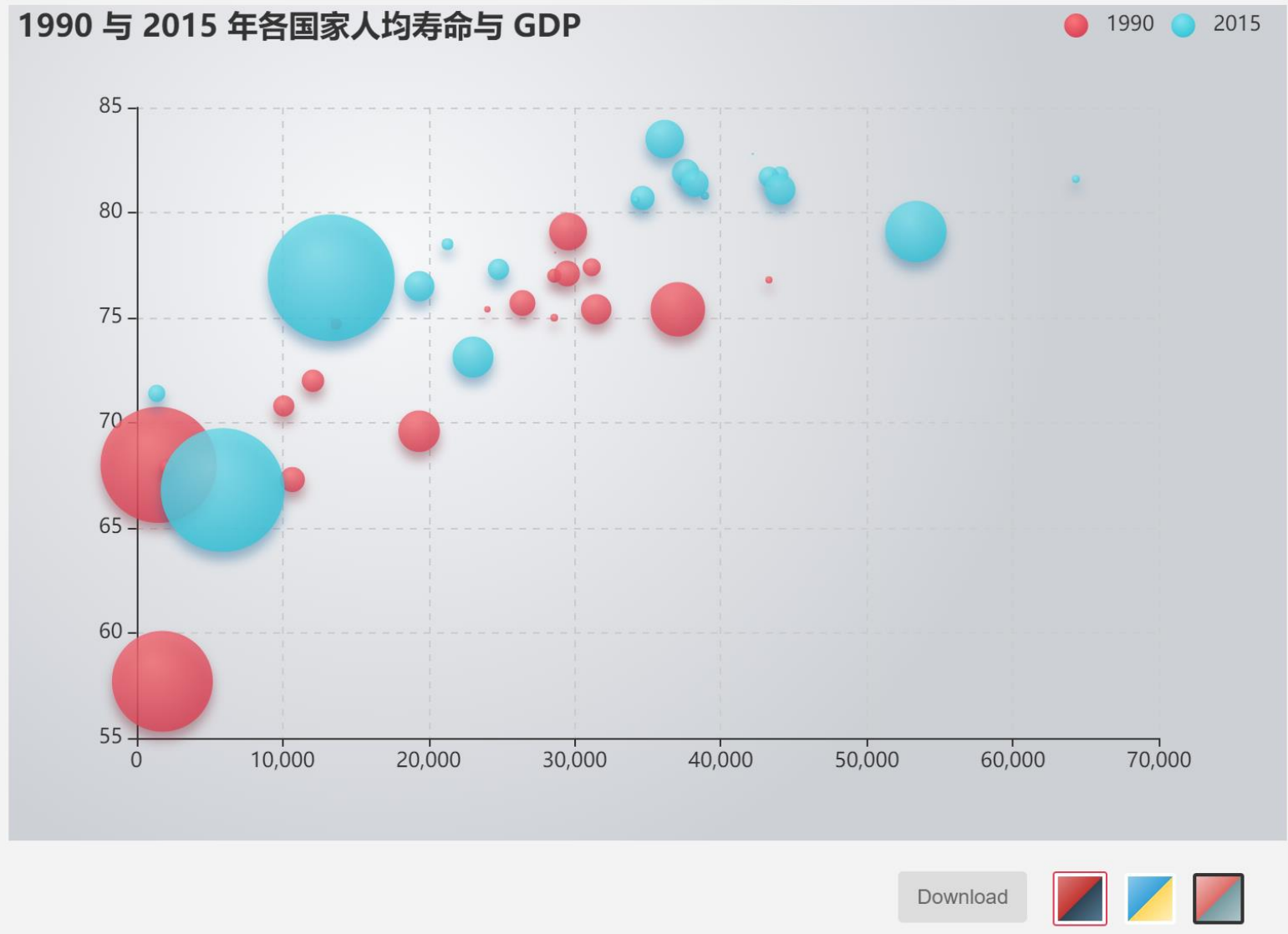
折线图 Line

Theme:   



21:43:15 图表已生成, 71ms 运行

```
1 app.title = '气泡图';
2
3 var data = [
4   [[28604,77,17096869,'Australia',1990],[31163,77.4,27662440,'Canada',1990],
5   [[44056,81.8,23968973,'Australia',2015],[43294,81.7,35939927,'Canada',2015]
6 ];
7
8 option = {
9   backgroundColor: new echarts.graphic.RadialGradient(0.3, 0.3, 0.6,
10     [0, '#f7f8fa'], [1, '#cdd0d5']
11   ), {
12     offset: 1,
13     color: '#cdd0d5'
14   }
15 }, {
16   title: {
17     text: '1990 与 2015 年各国家人均寿命与 GDP'
18   },
19   legend: {
20     right: 10,
21     data: ['1990', '2015']
22   },
23   xAxis: {
24     splitLine: {
25       lineStyle: {
26         type: 'dashed'
27       }
28     }
29   },
30   yAxis: {
31     splitLine: {
32       lineStyle: {
33         type: 'dashed'
34       }
35     },
36     scale: true
37   }
38 }
```



GMT6.0与pyGMT扩展

```
import pygmt
fig = pygmt.Figure()
fig.coast(shorelines=True, region=[90, 130, 0, 40],
projection="M8i", frame=True)
fig.savefig(gettempfile())
```

更多pyGMT用法网站: <https://www.pygmt.org/dev/overview.html>

GMT6.0安装程序下载: <http://w3.ualg.pt/~jluis/mirone/downloads/gmt.html>

用流程使数据畅通，构建预报业务新生态



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