



- 瀑布图 (柱图)
- 面积图 (线图)
- 组合图形 (柱、线、堆积)
- 玫瑰图 (饼图) 新
- 雷达图 新
- 散点图 新
- 气泡图 新
- 箱图 新

## 瀑布图

## 1. 时间序列柱状图

后端返回数据结构：

```
{
  "status": 0,
  "msg": null,
  "data": {
    "query": "select create_time as `create_time`, count(1) as `count111`, app_version as `app_version`, max(risk_level) as `测`",
    "data_update_time": "2021-08-27 10:06:53",
    "fault": false,
    "fail_message": null,
    "slice_name": "",
    "have_filter": 0,
    "params": null,
    "data_from": "2021-08-27 00:00:00",
    "data_to": "2021-08-27 00:00:00",
    "owner": "",
    "custom_head": null,
    "slice_status": 0,
    "legends": ["count111", "app_version", "测试"],
    "times": ["2019-12-06 23:55:11.0", "2019-12-06 23:55:12.0", "2019-12-06 23:55:13.0", "2019-12-06 23:55:14.0", "2019-12-06 23:55:15.0", "2019-12-06 23:55:16.0", "2019-12-06 23:55:17.0", "2019-12-06 23:55:18.0", "2019-12-06 23:55:19.0", "2019-12-06 23:55:20.0", "2019-12-06 23:55:21.0", "2019-12-06 23:55:22.0", "2019-12-06 23:55:23.0", "2019-12-06 23:55:24.0", "2019-12-06 23:55:25.0", "2019-12-06 23:55:26.0", "2019-12-06 23:55:27.0", "2019-12-06 23:55:28.0", "2019-12-06 23:55:29.0", "2019-12-06 23:55:30.0", "2019-12-06 23:55:31.0", "2019-12-06 23:55:32.0", "2019-12-06 23:55:33.0", "2019-12-06 23:55:34.0", "2019-12-06 23:55:35.0", "2019-12-06 23:55:36.0", "2019-12-06 23:55:37.0", "2019-12-06 23:55:38.0", "2019-12-06 23:55:39.0", "2019-12-06 23:55:40.0", "2019-12-06 23:55:41.0", "2019-12-06 23:55:42.0", "2019-12-06 23:55:43.0", "2019-12-06 23:55:44.0", "2019-12-06 23:55:45.0", "2019-12-06 23:55:46.0", "2019-12-06 23:55:47.0", "2019-12-06 23:55:48.0", "2019-12-06 23:55:49.0", "2019-12-06 23:55:50.0", "2019-12-06 23:55:51.0", "2019-12-06 23:55:52.0", "2019-12-06 23:55:53.0", "2019-12-06 23:55:54.0", "2019-12-06 23:55:55.0", "2019-12-06 23:55:56.0", "2019-12-06 23:55:57.0", "2019-12-06 23:55:58.0", "2019-12-06 23:55:59.0", "2019-12-06 23:56:00.0", "2019-12-06 23:56:01.0", "2019-12-06 23:56:02.0", "2019-12-06 23:56:03.0", "2019-12-06 23:56:04.0", "2019-12-06 23:56:05.0", "2019-12-06 23:56:06.0", "2019-12-06 23:56:07.0", "2019-12-06 23:56:08.0", "2019-12-06 23:56:09.0", "2019-12-06 23:56:10.0", "2019-12-06 23:56:11.0", "2019-12-06 23:56:12.0", "2019-12-06 23:56:13.0", "2019-12-06 23:56:14.0", "2019-12-06 23:56:15.0", "2019-12-06 23:56:16.0", "2019-12-06 23:56:17.0", "2019-12-06 23:56:18.0", "2019-12-06 23:56:19.0", "2019-12-06 23:56:20.0", "2019-12-06 23:56:21.0", "2019-12-06 23:56:22.0", "2019-12-06 23:56:23.0", "2019-12-06 23:56:24.0", "2019-12-06 23:56:25.0", "2019-12-06 23:56:26.0", "2019-12-06 23:56:27.0", "2019-12-06 23:56:28.0", "2019-12-06 23:56:29.0", "2019-12-06 23:56:30.0", "2019-12-06 23:56:31.0", "2019-12-06 23:56:32.0", "2019-12-06 23:56:33.0", "2019-12-06 23:56:34.0", "2019-12-06 23:56:35.0", "2019-12-06 23:56:36.0", "2019-12-06 23:56:37.0", "2019-12-06 23:56:38.0", "2019-12-06 23:56:39.0", "2019-12-06 23:56:40.0", "2019-12-06 23:56:41.0", "2019-12-06 23:56:42.0", "2019-12-06 23:56:43.0", "2019-12-06 23:56:44.0", "2019-12-06 23:56:45.0", "2019-12-06 23:56:46.0", "2019-12-06 23:56:47.0", "2019-12-06 23:56:48.0", "2019-12-06 23:56:49.0", "2019-12-06 23:56:50.0", "2019-12-06 23:56:51.0", "2019-12-06 23:56:52.0", "2019-12-06 23:56:53.0", "2019-12-06 23:56:54.0", "2019-12-06 23:56:55.0", "2019-12-06 23:56:56.0", "2019-12-06 23:56:57.0", "2019-12-06 23:56:58.0", "2019-12-06 23:56:59.0", "2019-12-06 23:57:00.0", "2019-12-06 23:57:01.0", "2019-12-06 23:57:02.0", "2019-12-06 23:57:03.0", "2019-12-06 23:57:04.0", "2019-12-06 23:57:05.0", "2019-12-06 23:57:06.0", "2019-12-06 23:57:07.0", "2019-12-06 23:57:08.0", "2019-12-06 23:57:09.0", "2019-12-06 23:57:10.0", "2019-12-06 23:57:11.0", "2019-12-06 23:57:12.0", "2019-12-06 23:57:13.0", "2019-12-06 23:57:14.0", "2019-12-06 23:57:15.0", "2019-12-06 23:57:16.0", "2019-12-06 23:57:17.0", "2019-12-06 23:57:18.0", "2019-12-06 23:57:19.0", "2019-12-06 23:57:20.0", "2019-12-06 23:57:21.0", "2019-12-06 23:57:22.0", "2019-12-06 23:57:23.0", "2019-12-06 23:57:24.0", "2019-12-06 23:57:25.0", "2019-12-06 23:57:26.0", "2019-12-06 23:57:27.0", "2019-12-06 23:57:28.0", "2019-12-06 23:57:29.0", "2019-12-06 23:57:30.0", "2019-12-06 23:57:31.0", "2019-12-06 23:57:32.0", "2019-12-06 23:57:33.0", "2019-12-06 23:57:34.0", "2019-12-06 23:57:35.0", "2019-12-06 23:57:36.0", "2019-12-06 23:57:37.0", "2019-12-06 23:57:38.0", "2019-12-06 23:57:39.0", "2019-12-06 23:57:40.0", "2019-12-06 23:57:41.0", "2019-12-06 23:57:42.0", "2019-12-06 23:57:43.0", "2019-12-06 23:57:44.0", "2019-12-06 23:57:45.0", "2019-12-06 23:57:46.0", "2019-12-06 23:57:47.0", "2019-12-06 23:57:48.0", "2019-12-06 23:57:49.0", "2019-12-06 23:57:50.0", "2019-12-06 23:57:51.0", "2019-12-06 23:57:52.0", "2019-12-06 23:57:53.0", "2019-12-06 23:57:54.0", "2019-12-06 23:57:55.0", "2019-12-06 23:57:56.0", "2019-12-06 23:57:57.0", "2019-12-06 23:57:58.0",
```

### 前端echarts配置数据结构:

```
{
  "title":{
    "show":false,
    "text":"某站点用户访问来源",
    "subtext":"纯属虚构",
    "x":"center"
  },
  "legend":{
    "type":"scroll",
    "show":true,
    "data":[
      "count11",
      "app_version",
      "测试"
    ]
  },
  "tooltip":{
    "trigger":"axis",
    "axisPointer":{
      "type":"shadow"
    }
  },
  "xAxis":{
    "type":"category",
    "nameLocation":"middle",
    "nameGap":30,
    "data":[
      "2019-12-06 23:55:11.0",
      "2019-12-06 23:55:12.0",
      "2019-12-06 23:55:13.0",
      "2019-12-06 23:55:14.0",
      "2019-12-06 23:55:15.0",
      "2019-12-06 23:55:15.0",
      "2019-12-06 23:55:17.0",
      "2019-12-06 23:55:18.0"
    ]
  }
}
```

```

        "2019-12-06 23:55:19.0",
        "2019-12-06 23:55:20.0",
        "2019-12-06 23:55:23.0",
        "2019-12-06 23:55:24.0",
        "2019-12-06 23:55:25.0",
        "2019-12-06 23:55:26.0",
        "2019-12-06 23:55:28.0",
        "2019-12-06 23:55:29.0",
        "2019-12-06 23:55:30.0",
        "2019-12-06 23:55:31.0",
        "2019-12-06 23:57:36.0",
        "2019-12-06 23:58:15.0"
    ],
    "axisLabel": {
        "rotate": 0
    },
    "position": "bottom",
    "axisLine": {
        "onZero": true
    }
},
"yAxis": [
    {
        "type": "value",
        "logBase": 10,
        "inverse": false,
        "axisLabel": {
        }
    }
],
"grid": {
    "left": "3%",
    "right": "4%",
    "bottom": "10%",
    "containLabel": true
},
"dataZoom": [
    {
        "show": false,
        "start": 0,
        "end": 100,
        "realtime": true
    },
    {
        "type": "inside",
        "realtime": true,
        "disabled": false,
        "zoomOnMouseWheel": true
    }
],
"series": [
    {
        "data": [
            5,
            5,
            6,
            4,
            1,
            1,
            3,
            5,
            2,
            4,
            1,
            5,
            2,
            3,
            5,
            3,
            4,
            1,
            1,
            1
        ],
        "name": "count111",
        "type": "bar",
        "label": {
            "normal": {
                "position": "insideTop"
            }
        },
        "stack": null
    },
    {
        "data": [
            8010229,
            8010229,
            8010229,
            8010229,
            8010005,
            8010005,
            8010229,
            8010229,
            8010229,
            8010229,
            8010229,
            8010229,
            8010229
        ]
    }
]

```

[illegible]

## 2. 分布式柱状图

后端返回数据结构：

```
{
  "status":0,
  "msg":null,
  "data":{
    "query":"select create_time as `create_time`, count(1) as `count111`, app_version as `app_version`, max(risk_level) as `risk_level` from `t_risk` where create_time >= '2021-08-27 10:06:53'",
    "data_update_time":"2021-08-27 10:06:53",
    "fault":false,
    "fail_message":null,
    "slice_name": "",
    "have_filter":0,
    "params":null,
    "data_from":"2021-08-27 00:00:00",
    "data_to":"2021-08-27 00:00:00",
    "owner": "",
    "custom_head":null,
    "slice_status":0,
    "need_map":{
      "count111": [
        {
          "x": "[2019-12-06 23:55:30.0]",
          "y": "4",
          "display_y": "4"
        },
        {
          "x": "[2019-12-06 23:55:15.0]",
          "y": "4",
          "display_y": "4"
        }
      ]
    }
  }
}
```

```

{
  "x": "[2019-12-06 23:58:15.0]",
  "y": "1",
  "display_y": "1"
},
{
  "x": "[2019-12-06 23:57:36.0]",
  "y": "1",
  "display_y": "1"
},
{
  "x": "[2019-12-06 23:55:11.0]",
  "y": "5",
  "display_y": "5"
},
{
  "x": "[2019-12-06 23:55:12.0]",
  "y": "5",
  "display_y": "5"
},
{
  "x": "[2019-12-06 23:55:13.0]",
  "y": "6",
  "display_y": "6"
},
{
  "x": "[2019-12-06 23:55:14.0]",
  "y": "4",
  "display_y": "4"
},
{
  "x": "[2019-12-06 23:55:17.0]",
  "y": "3",
  "display_y": "3"
},
{
  "x": "[2019-12-06 23:55:18.0]",
  "y": "5",
  "display_y": "5"
},
{
  "x": "[2019-12-06 23:55:19.0]",
  "y": "2",
  "display_y": "2"
},
{
  "x": "[2019-12-06 23:55:20.0]",
  "y": "4",
  "display_y": "4"
},
{
  "x": "[2019-12-06 23:55:23.0]",
  "y": "1",
  "display_y": "1"
},
{
  "x": "[2019-12-06 23:55:24.0]",
  "y": "5",
  "display_y": "5"
},
{
  "x": "[2019-12-06 23:55:25.0]",
  "y": "2",
  "display_y": "2"
},
{
  "x": "[2019-12-06 23:55:26.0]",
  "y": "3",
  "display_y": "3"
},
{
  "x": "[2019-12-06 23:55:28.0]",
  "y": "5",
  "display_y": "5"
},
{
  "x": "[2019-12-06 23:55:29.0]",
  "y": "3",
  "display_y": "3"
},
{
  "x": "[2019-12-06 23:55:31.0]",
  "y": "1",
  "display_y": "1"
}
},
"app_version": [
  {
    "x": "[2019-12-06 23:55:30.0]",
    "y": "8010229",
    "display_y": "801,0229"
  },
  {
    "x": "[2019-12-06 23:55:15.0]",
    "y": "8010229",
    "display_y": "801,0229"
  }
]

```

```

"x": "[2019-12-06 23:58:15.0]",
"y": "8010005",
"display_y": "801,0005"
},
{
"x": "[2019-12-06 23:57:36.0]",
"y": "8010227",
"display_y": "801,0227"
},
{
"x": "[2019-12-06 23:55:11.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:12.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:13.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:14.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:17.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:18.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:19.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:20.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:23.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:24.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:25.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:26.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:28.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:29.0]",
"y": "8010229",
"display_y": "801,0229"
},
{
"x": "[2019-12-06 23:55:31.0]",
"y": "8010229",
"display_y": "801,0229"
}
],
"测试": [
{
"x": "[2019-12-06 23:55:30.0]",
"y": "4",
"display_y": "4"
},
{
"x": "[2019-12-06 23:55:15.0]",
"y": "2",
"display_y": "2"
},
{
"x": "[2019-12-06 23:58:15.0]",

```

```

        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:57:36.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:11.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:12.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:13.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:14.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:17.0]",
        "y": "2",
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    },
    {
        "x": "[2019-12-06 23:55:18.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:19.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:20.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:23.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:24.0]",
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    },
    {
        "x": "[2019-12-06 23:55:25.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:26.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:28.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:29.0]",
        "y": "2",
        "display_y": "2"
    },
    {
        "x": "[2019-12-06 23:55:31.0]",
        "y": "2",
        "display_y": "2"
    }
    ]
}
}
}

```

前端echarts配置数据结构:

```

{
  "title": {
    "show": false,
    "text": "某站点用户访问来源",
    "subtext": "纯属虚构",
    "x": "center"
  },
  "legend": {
    "type": "scroll",

```

```

    "show":true,
    "data":[
      "count111",
      "app_version",
      "测试"
    ]
  },
  "tooltip":{
    "trigger":"axis",
    "axisPointer":{
      "type":"shadow"
    }
  },
  "xAxis":{
    "type":"category",
    "nameLocation":"middle",
    "nameGap":30,
    "data":[
      "2019-12-06 23:55:30.0",
      "2019-12-06 23:55:15.0",
      "2019-12-06 23:58:15.0",
      "2019-12-06 23:57:36.0",
      "2019-12-06 23:55:11.0",
      "2019-12-06 23:55:12.0",
      "2019-12-06 23:55:13.0",
      "2019-12-06 23:55:14.0",
      "2019-12-06 23:55:17.0",
      "2019-12-06 23:55:18.0",
      "2019-12-06 23:55:19.0",
      "2019-12-06 23:55:20.0",
      "2019-12-06 23:55:23.0",
      "2019-12-06 23:55:24.0",
      "2019-12-06 23:55:25.0",
      "2019-12-06 23:55:26.0",
      "2019-12-06 23:55:28.0",
      "2019-12-06 23:55:29.0",
      "2019-12-06 23:55:31.0"
    ],
    "nameTextStyle":{
      "padding":[-10,0,0,6]
    },
    "axisLabel":{
      "rotate":0
    },
    "position":"bottom",
    "axisLine":{
      "onZero":true
    }
  },
  "yAxis":{
    "type":"value",
    "logBase":10,
    "inverse":false,
    "splitLine":{
      "lineStyle":{
        "color":"#eee",
        "type":"dashed",
        "width":1
      }
    },
    "axisLabel":{
    },
    "splitArea":{
      "show":false
    }
  },
  "grid":{
    "left":"3%",
    "right":"4%",
    "bottom":"10%",
    "containLabel":true
  },
  "dataZoom":[
    {
      "show":false,
      "start":0,
      "end":100,
      "realtime":true,
      "orient":"horizontal",
      "yAxisIndex":null
    },
    {
      "type":"inside",
      "realtime":true,
      "disabled":false,
      "zoomOnMouseWheel":true,
      "orient":"horizontal",
      "yAxisIndex":null
    }
  ],
  "series":[
    {

```

```
],
"color": [
    "#4f69f2",
    "#35a7fa",
    "#9152f7",
    "#d177f4",

```



```
        "#ff5959",
        "#f5c723",
        "#87d068"
    ]
}
```

3. 前端echarts配置

```
{
  "title":{
    "text":"Accumulated Waterfall Chart"
  },
  "tooltip":{
    "trigger":"axis",
    "axisPointer":{
      "type":"shadow"
    }
  },
  "legend":{
    "data":[
      "Expenses",
      "Income"
    ]
  },
  "grid":{
    "left":"3%",
    "right":"4%",
    "bottom":"3%",
    "containLabel":true
  },
  "xAxis":{
    "type":"category",
    "data":[
      "Nov 1",
      "Nov 2",
      "Nov 3",
      "Nov 4",
      "Nov 5",
      "Nov 6",
      "Nov 7",
      "Nov 8",
      "Nov 9",
      "Nov 10",
      "Nov 11"
    ]
  },
  "yAxis":{
    "type":"value"
  },
  "series":[
    {
      "name":"Placeholder",
      "type":"bar",
      "stack":"Total",
      "itemStyle":{
        "borderColor":"transparent",
        "color":"transparent"
      },
      "emphasis":{
        "itemStyle":{
          "borderColor":"transparent",
          "color":"transparent"
        }
      }
    },
    {
      "data":[
        0,
        900,
        1245,
        1530,
        1376,
        1376,
        1511,
        1689,
        1856,
        1495,
        1292
      ]
    },
    {
      "name":"Income",
      "type":"bar",
      "stack":"Total",
      "label":{
        "show":true,
        "position":"top"
      }
    },
    {
      "data":[
        900,
        345,
        393,
        "-",
        "-",
        135,
        178,
        286,

```

```

        "- ",
        "- ",
        "- "
    ]
},
{
    "name": "Expenses",
    "type": "bar",
    "stack": "Total",
    "label": {
        "show": true,
        "position": "bottom"
    },
    "data": [
        "- ",
        "- ",
        "- ",
        108,
        154,
        "- ",
        "- ",
        "- ",
        119,
        361,
        203
    ]
}
]
}
}

```

面积图 (新)

### 后端返回数据结构:

```
{
  "status": 0,
  "msg": null,
  "data": {
    "query": "select create_time as `create_time`, count(1) as `count111`, app_version as `app_version`, max(risk_level) as `测",
    "data_update_time": "2021-08-27 10:06:53",
    "fault": false,
    "fail_message": null,
    "slice_name": "",
    "have_filter": 0,
    "params": null,
    "data_from": "2021-08-27 00:00:00",
    "data_to": "2021-08-27 00:00:00",
    "owner": "",
    "custom_head": null,
    "slice_status": 0,
    "legends": ["count111", "app_version", "测试"],
    "compare_query": null,
    "times": ["2019-12-06 23:55:11.0", "2019-12-06 23:55:12.0", "2019-12-06 23:55:13.0", "2019-12-06 23:55:14.0", "2019-12-06 23:55:15.0", "2019-12-06 23:55:16.0", "2019-12-06 23:55:17.0", "2019-12-06 23:55:18.0", "2019-12-06 23:55:19.0", "2019-12-06 23:55:20.0", "2019-12-06 23:55:21.0", "2019-12-06 23:55:22.0", "2019-12-06 23:55:23.0", "2019-12-06 23:55:24.0", "2019-12-06 23:55:25.0", "2019-12-06 23:55:26.0", "2019-12-06 23:55:27.0", "2019-12-06 23:55:28.0", "2019-12-06 23:55:29.0", "2019-12-06 23:55:30.0", "2019-12-06 23:55:31.0", "2019-12-06 23:55:32.0", "2019-12-06 23:55:33.0", "2019-12-06 23:55:34.0", "2019-12-06 23:55:35.0", "2019-12-06 23:55:36.0", "2019-12-06 23:55:37.0", "2019-12-06 23:55:38.0", "2019-12-06 23:55:39.0", "2019-12-06 23:55:40.0", "2019-12-06 23:55:41.0", "2019-12-06 23:55:42.0", "2019-12-06 23:55:43.0", "2019-12-06 23:55:44.0", "2019-12-06 23:55:45.0", "2019-12-06 23:55:46.0", "2019-12-06 23:55:47.0", "2019-12-06 23:55:48.0", "2019-12-06 23:55:49.0", "2019-12-06 23:55:50.0", "2019-12-06 23:55:51.0", "2019-12-06 23:55:52.0", "2019-12-06 23:55:53.0", "2019-12-06 23:55:54.0", "2019-12-06 23:55:55.0", "2019-12-06 23:55:56.0", "2019-12-06 23:55:57.0", "2019-12-06 23:55:58.0", "2019-12-06 23:55:59.0", "2019-12-06 23:56:00.0", "2019-12-06 23:56:01.0", "2019-12-06 23:56:02.0", "2019-12-06 23:56:03.0", "2019-12-06 23:56:04.0", "2019-12-06 23:56:05.0", "2019-12-06 23:56:06.0", "2019-12-06 23:56:07.0", "2019-12-06 23:56:08.0", "2019-12-06 23:56:09.0", "2019-12-06 23:56:10.0", "2019-12-06 23:56:11.0", "2019-12-06 23:56:12.0", "2019-12-06 23:56:13.0", "2019-12-06 23:56:14.0", "2019-12-06 23:56:15.0", "2019-12-06 23:56:16.0", "2019-12-06 23:56:17.0", "2019-12-06 23:56:18.0", "2019-12-06 23:56:19.0", "2019-12-06 23:56:20.0", "2019-12-06 23:56:21.0", "2019-12-06 23:56:22.0", "2019-12-06 23:56:23.0", "2019-12-06 23:56:24.0", "2019-12-06 23:56:25.0", "2019-12-06 23:56:26.0", "2019-12-06 23:56:27.0", "2019-12-06 23:56:28.0", "2019-12-06 23:56:29.0", "2019-12-06 23:56:30.0", "2019-12-06 23:56:31.0", "2019-12-06 23:56:32.0", "2019-12-06 23:56:33.0", "2019-12-06 23:56:34.0", "2019-12-06 23:56:35.0", "2019-12-06 23:56:36.0", "2019-12-06 23:56:37.0", "2019-12-06 23:56:38.0", "2019-12-06 23:56:39.0", "2019-12-06 23:56:40.0", "2019-12-06 23:56:41.0", "2019-12-06 23:56:42.0", "2019-12-06 23:56:43.0", "2019-12-06 23:56:44.0", "2019-12-06 23:56:45.0", "2019-12-06 23:56:46.0", "2019-12-06 23:56:47.0", "2019-12-06 23:56:48.0", "2019-12-06 23:56:49.0", "2019-12-06 23:56:50.0", "2019-12-06 23:56:51.0", "2019-12-06 23:56:52.0", "2019-12-06 23:56:53.0", "2019-12-06 23:56:54.0", "2019-12-06 23:56:55.0", "2019-12-06 23:56:56.0", "2019-12-06 23:56:57.0", "2019-12-06 23:56:58.0", "2019-12-06 23:56:59.0", "2019-12-06 23:57:00.0", "2019-12-06 23:57:01.0", "2019-12-06 23:57:02.0", "2019-12-06 23:57:03.0", "2019-12-06 23:57:04.0", "2019-12-06 23:57:05.0", "2019-12-06 23:57:06.0", "2019-12-06 23:57:07.0", "2019-12-06 23:57:08.0", "2019-12-06 23:57:09.0", "2019-12-06 23:57:10.0", "2019-12-06 23:57:11.0", "2019-12-06 23:57:12.0", "2019-12-06 23:57:13.0", "2019-12-06 23:57:14.0", "2019-12-06 23:57:15.0", "2019-12-06 23:57:16.0", "2019-12-06 23:57:17.0", "2019-12-06 23:57:18.0", "2019-12-06 23:57:19.0", "2019-12-06 23:57:20.0", "2019-12-06 23:57:21.0", "2019-12-06 23:57:22.0", "2019-12-06 23:57:23.0", "2019-12-06 23:57:24.0", "2019-12-06 23:57:25.0", "2019-12-06 23:57:26.0", "2019-12-06 23:57:27.0", "2019-12-06 23:57:28.0", "2019-12-06 23:57:29.0", "2019-12-06 23:57:30.0", "2019-12-06 23:57:31.0", "2019-12-06 23:57:32.0", "2019-12-06 23:57:33.0", "2019-12-06 23:57:34.0", "2019-12-06 23:57:35.0", "2019-12-06 23:57:36.0", "2019-12-06 23:57:37.0", "2019-12-06 23:57:38.0", "2019-12-06 23:57:39.0", "2019-12-06 23:57:40.0", "2019-12-06 23:57:41.0", "2019-12-06 23:57:42.0", "2019-12-06 23:57:43.0", "2019-12-06 23:57:44.0", "2019-12-06 23:57:45.0", "2019-12-06 23:57:46.0", "2019-12-06 23:57:47.0", "2019-12-06 23:57:48.0", "2019-12-06 23:57:49.0", "2019-12-06 23:57:50.0", "2019-12-06 23:57:51.0", "2019-12-06 23:57:52.0", "2019-12-06 23:57:53.0", "2019-12-06 23:57:54.0", "2019-12-06 23:57:55.0", "2019-12-06 23:57:56.0", "2019-12-06 23:57:57.0", "2019-12-06 23:5
```

### 前端echarts配置数据结构:

```
{
  "title":{
    "show":false,
    "text":"某站点用户访问来源",
    "subtext":"纯属虚构",
    "x":"center"
  },
  "legend":{
    "type":"scroll",
    "data":[
      "count111",

```

<https://wiki.corp.bianlifeng.com/pages/viewpage.action?pageId=710676422>

## 组合图形 (新)

后端返回数据结构:

无

前端echarts配置数据结构 (demo) :

```
{
  "tooltip": {
    "trigger": "axis",
    "axisPointer": {
      "type": "cross",
      "crossStyle": {
        "color": "#999"
      }
    }
  },
  "toolbox": {
    "feature": {
      "dataView": {
        "show": true,
        "readOnly": false
      },
      "magicType": {
        "show": true,
        "type": [
          "line",
          "bar"
        ]
      },
      "restore": {
        "show": true
      },
      "saveAsImage": {
        "show": true
      }
    }
  },
  "legend": {
    "data": [
      "蒸发量",
      "降雨量",
      "温度"
    ]
  },
  "xAxis": [
    {
      "type": "category",
      "data": [
        "Mon",
        "Tue",
        "Wed",
        "Thu",
        "Fri",
        "Sat",
        "Sun"
      ],
      "axisPointer": {
        "type": "shadow"
      }
    }
  ],
  "yAxis": [
    {
      "type": "value",
      "name": "降雨量",
      "min": 0,
      "max": 250,
      "interval": 50,
      "axisLabel": {
        "formatter": "{value} ml"
      }
    },
    {
      "type": "value",
      "name": "温度",
      "min": 0,
      "max": 25,
      "interval": 5,
      "axisLabel": {
        "formatter": "{value} °C"
      }
    }
  ],
  "series": [
    {
      "name": "蒸发量",
      "type": "bar",
      "data": [
        2,
        4.9,
        7,
        23.2,
        25.6,

```

```

    76.7,
    135.6,
    162.2,
    32.6,
    20,
    6.4,
    3.3
  ],
  {
    "name": "降雨量",
    "type": "bar",
    "data": [
      2.6,
      5.9,
      9,
      26.4,
      28.7,
      70.7,
      175.6,
      182.2,
      48.7,
      18.8,
      6,
      2.3
    ]
  },
  {
    "name": "温度",
    "type": "line",
    "yAxisIndex": 1,
    "data": [
      2,
      2.2,
      3.3,
      4.5,
      6.3,
      10.2,
      20.3,
      23.4,
      23,
      16.5,
      12,
      6.2
    ]
  },
  {
    "name": "朝阳",
    "type": "bar",
    "stack": "Ad",
    "emphasis": {
      "focus": "series"
    },
    "data": [
      12,
      13,
      10,
      13,
      9,
      23,
      21
    ]
  },
  {
    "name": "海淀",
    "type": "bar",
    "stack": "Ad",
    "emphasis": {
      "focus": "series"
    },
    "data": [
      22,
      18,
      19,
      23,
      29,
      33,
      31
    ]
  },
  {
    "name": "东城",
    "type": "bar",
    "stack": "Ad",
    "emphasis": {
      "focus": "series"
    },
    "data": [
      15,
      23,
      20,
      15,
      19,
      33,
      41
    ]
  }
}
```

```
    ]
  }
```

需要前后端同时开发

极坐标图（新）

后端返回数据结构：

同柱状图

前端echarts配置数据结构（demo）：

```
{
  "title": [
    {
      "text": "Radial Polar Bar Label Position (middle)"
    }
  ],
  "polar": {
    "radius": [
      30,
      "80%"
    ]
  },
  "radiusAxis": {
    "max": 4
  },
  "angleAxis": {
    "type": "category",
    "data": [
      "a",
      "b",
      "c",
      "d"
    ],
    "startAngle": 75
  },
  "tooltip": {
  },
  "series": {
    "type": "bar",
    "data": [
      2,
      1.2,
      2.4,
      3.6
    ],
    "coordinateSystem": "polar",
    "label": {
      "show": true,
      "position": "middle",
      "formatter": "{b}: {c}"
    }
  },
  "backgroundColor": "#fff",
  "animation": false
}
```

不需要后端支持，前端修改配置

雷达图（新）

后端返回数据结构：

无

前端echarts配置数据结构：

```
{
  "title": {
    "text": "Basic Radar Chart"
  },
}
```

```
"legend":{
  "data":[
    "Allocated Budget",
    "Actual Spending"
  ]
},
"radar":{
  "indicator":[
    {
      "name":"Sales",
      "max":6500
    },
    {
      "name":"Administration",
      "max":16000
    },
    {
      "name":"Information Technology",
      "max":30000
    },
    {
      "name":"Customer Support",
      "max":38000
    },
    {
      "name":"Development",
      "max":52000
    },
    {
      "name":"Marketing",
      "max":25000
    }
  ]
},
"series":[
  {
    "name":"Budget vs spending",
    "type":"radar",
    "data":[
      {
        "value":[
          4200,
          3000,
          20000,
          35000,
          50000,
          18000
        ],
        "name":"Allocated Budget"
      },
      {
        "value":[
          5000,
          14000,
          28000,
          26000,
          42000,
          21000
        ],
        "name":"Actual Spending"
      }
    ]
  }
]
```

需要前后端同时开发

散点图（新）

后端返回数据结构：  
无

前端echarts配置数据结构：

```
{
  "xAxis":{
  },
  "yAxis":{
  },
  "series":[
    {
      "symbolSize":20,
```



```
"data": [
  [
    10,
    8.04
  ],
  [
    8.07,
    6.95
  ],
  [
    13,
    7.58
  ],
  [
    9.05,
    8.81
  ],
  [
    11,
    8.33
  ],
  [
    14,
    7.66
  ],
  [
    13.4,
    6.81
  ],
  [
    10,
    6.33
  ],
  [
    14,
    8.96
  ],
  [
    12.5,
    6.82
  ],
  [
    9.15,
    7.2
  ],
  [
    11.5,
    7.2
  ],
  [
    3.03,
    4.23
  ],
  [
    12.2,
    7.83
  ],
  [
    2.02,
    4.47
  ],
  [
    1.05,
    3.33
  ],
  [
    4.05,
    4.96
  ],
  [
    6.03,
    7.24
  ],
  [
    12,
    6.26
  ],
  [
    12,
    8.84
  ],
  [
    7.08,
    5.82
  ],
  [
    5.02,
    5.68
  ]
],
"type": "scatter"
}
```

需要前后端同时开发

## 气泡图（新）

后端返回数据结构：

无

前端echarts配置数据结构：

```
const hours = [
  '12a', '1a', '2a', '3a', '4a', '5a', '6a',
  '7a', '8a', '9a', '10a', '11a',
  '12p', '1p', '2p', '3p', '4p', '5p',
  '6p', '7p', '8p', '9p', '10p', '11p'
];

const days = [
  'Saturday', 'Friday', 'Thursday',
  'Wednesday', 'Tuesday', 'Monday', 'Sunday'
];

const data = [[0, 0, 5], [0, 1, 1], [0, 2, 0], [0, 3, 0], [0, 4, 0], [0, 5, 0], [0, 6, 0], [0, 7, 0], [0, 8, 0], [0, 9, 0], |
  .map(function (item) {
    return [item[1], item[0], item[2]];
  })];

const option = {
  title: {
    text: 'Punch Card of Github'
  },
  legend: {
    data: ['Punch Card'],
    left: 'right'
  },
  tooltip: {
    position: 'top',
    formatter: function (params) {
      return (
        params.value[2] +
        ' commits in ' +
        hours[params.value[0]] +
        ' of ' +
        days[params.value[1]]
      );
    }
  },
  grid: {
    left: 2,
    bottom: 10,
    right: 10,
    containLabel: true
  },
  xAxis: {
    type: 'category',
    data: hours,
    boundaryGap: false,
    splitLine: {
      show: true
    },
    axisLine: {
      show: false
    }
  },
  yAxis: {
    type: 'category',
    data: days,
    axisLine: {
      show: false
    }
  },
  series: [
    {
      name: 'Punch Card',
      type: 'scatter',
      symbolSize: function (val) {
        return val[2] * 2;
      },
      data: data,
      animationDelay: function (idx) {
        return idx * 5;
      }
    }
  ]
};
```

需要前后端同时开发

箱图（新）

后端返回数据结构：

无

前端echarts配置数据结构：

```
{
  "title": [
    {
      "text": "Michelson-Morley Experiment",
      "left": "center"
    },
    {
      "text": "upper: Q3 + 1.5 * IQR \nlower: Q1 - 1.5 * IQR",
      "borderColor": "#999",
      "borderWidth": 1,
      "textStyle": {
        "fontWeight": "normal",
        "fontSize": 14,
        "lineHeight": 20
      },
      "left": "10%",
      "top": "90%"
    }
  ],
  "dataset": [
    {
      "source": [
        [
          850,
          740,
          900,
          1070,
          930,
          850,
          950,
          980,
          980,
          880,
          1000,
          980,
          930,
          650,
          760,
          810,
          1000,
          1000,
          960,
          960
        ],
        [
          960,
          940,
          960,
          940,
          880,
          800,
          850,
          880,
          900,
          840,
          830,
          790,
          810,
          880,
          880,
          830,
          800,
          790,
          760,
          800
        ],
        [
          880,
          880,
          880,
          860,
          720,
          720,
          620,
          860,
          970,
          950,

```

```

      880,
      910,
      850,
      870,
      840,
      840,
      850,
      840,
      840,
      840
    ],
    [
      890,
      810,
      810,
      820,
      800,
      770,
      760,
      740,
      750,
      760,
      910,
      920,
      890,
      860,
      880,
      720,
      840,
      850,
      850,
      780
    ],
    [
      890,
      840,
      780,
      810,
      760,
      810,
      790,
      810,
      820,
      850,
      870,
      870,
      810,
      740,
      810,
      940,
      950,
      800,
      810,
      870
    ]
  ],
  {
    "transform": {
      "type": "boxplot",
      "config": {
        "itemNameFormatter": "expr {value}"
      }
    }
  },
  {
    "fromDatasetIndex": 1,
    "fromTransformResult": 1
  }
],
"tooltip": {
  "trigger": "item",
  "axisPointer": {
    "type": "shadow"
  }
},
"grid": {
  "left": "10%",
  "right": "10%",
  "bottom": "15%"
},
"xAxis": {
  "type": "category",
  "boundaryGap": true,
  "nameGap": 30,
  "splitArea": {
    "show": false
  },
  "splitLine": {
    "show": false
  }
},
"yAxis": {
  "type": "value",
  "name": "km/s minus 299,000",
  "splitArea": {
    "show": true
  }
}

```

```
    },
    "series": [
      {
        "name": "boxplot",
        "type": "boxplot",
        "datasetIndex": 1
      },
      {
        "name": "outlier",
        "type": "scatter",
        "datasetIndex": 2
      }
    ]
  }
}
```

需要前后端同时开发

总结

图表丰富		
仅前端开发	面积图（线图）	前端echarts配置改动，不涉及数据，拥有线图同等功能，较简单
	极坐标（柱图）	前端echarts增加极坐标系配置，不涉及数据，柱图多维度时后端返回Map结构，前端作单维度处理，此同柱图
	瀑布图-单指标	将单个series（指标）通过计算拆分为基础量、增加量、减少量三个series，若将此图形纳入柱图类型的图表配置则在前端运算
前后端开发（新）	组合图形	涉及图形类型转换，精细到每一个指标的图形配置，初始全部为柱/线图，图表配置中修改指标图表类型
	雷达图	待确认
	散点图（时间序列？）	数据结构为点坐标[x, y]，常用来计算回归曲线预测指标趋势
	气泡图	echarts配置上与散点图形似，不同之处在于除了x、y轴外，额外维度数值大小表现为气泡的大小，数据结构为[x, y, 维度数值]
	箱图	展示维度上某个指标在不同区间的分布情况，数据结构为[min, Q1, median (or Q2), Q3, max]，对应最小值、下四分点、中值、上四分点、最大值

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