Git&黑马就业数据平台



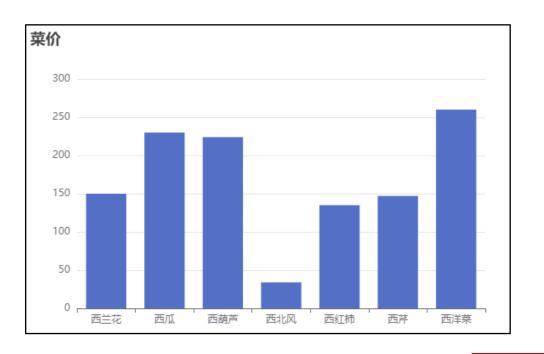


数据可视化

数据可视化: 主要旨在借助于图形化手段,清晰有效地传达于沟通信息

作用: 将数据转换为图形, 数据特点更加突出

```
const foodArr = [
{ name: '西兰花', price: 150 },
{ name: '西瓜', price: 230 },
{ name: '西葫芦', price: 224 },
{ name: '西北风', price: 34 },
{ name: '西红柿', price: 135 },
{ name: '西芹', price: 147 },
{ name: '西洋菜', price: 260 },
]
```





echarts简介

官网:一个基于 JavaScript 的开源可视化图表库

特点:

- 1. 性能好, 流畅运行于 PC 和 移动端
- 2. 兼容主流浏览器
- 3. 提供非常多的常用图表,且支持定制

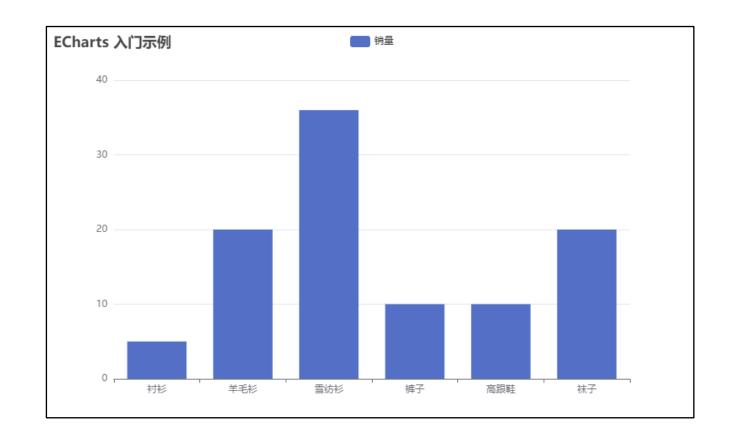




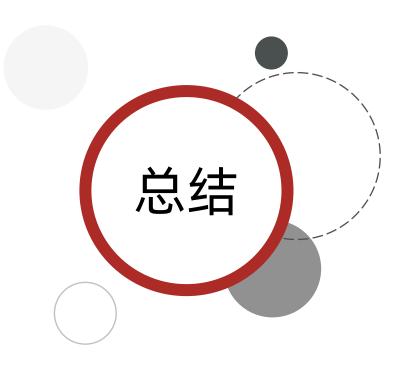


echarts快速上手

需求: 基于文档生成基础图表







1. 数据可视化:

将数据转换为图形,数据特点更加突出

- 2. 日常开发中如何绘制图表:
 - 借助图表库完成绘制,比如ECharts
- 3. ECharts使用准备

```
<!- 准备工作: 准备定义了宽高的dom容器 -->
<div id="main" style="width: 600px;height:400px;"></div>
<!- 准备工作: 下包+导包 -->
<script src="../lib/echarts.min.js"></script>
```

4. ECharts核心使用步骤

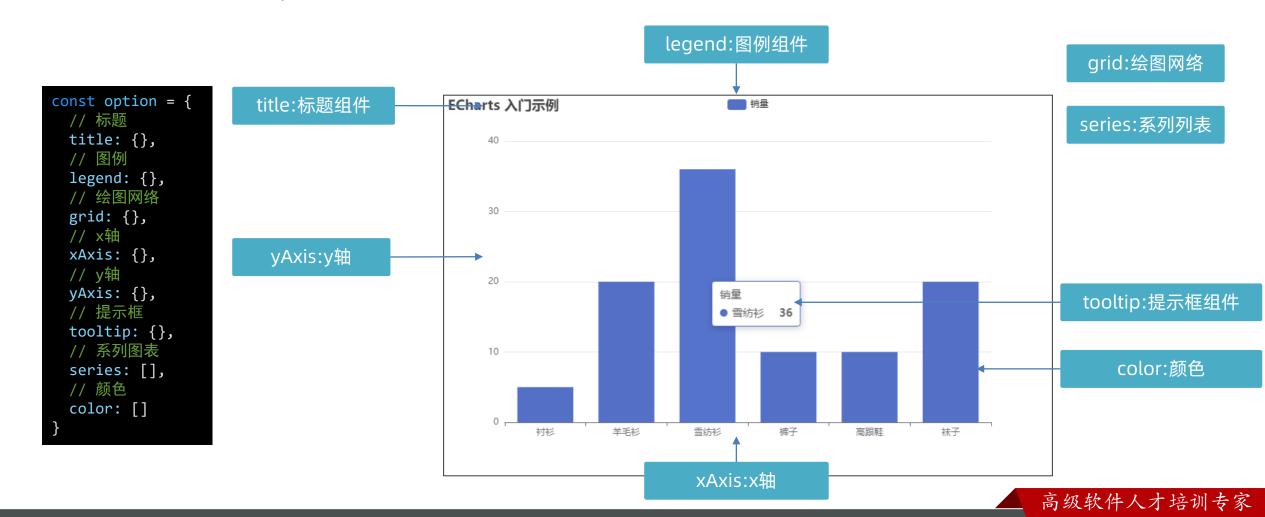
```
// 基于准备好的dom, 初始化echarts实例
const myChart = echarts.init(dom元素)

// 指定图表的配置项和数据
const option = {
    //....
}

// 使用刚指定的配置项和数据显示图表。
myChart.setOption(option)
```



通过不同配置项的组合,即可实现不同的图表

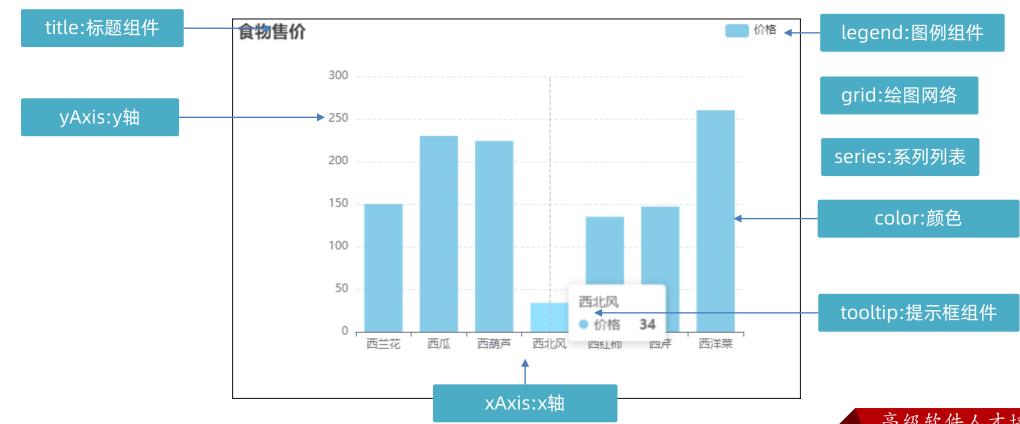




需求: 将上一节的图形, 调整为如下外观

核心步骤:

<u> 查文档</u>

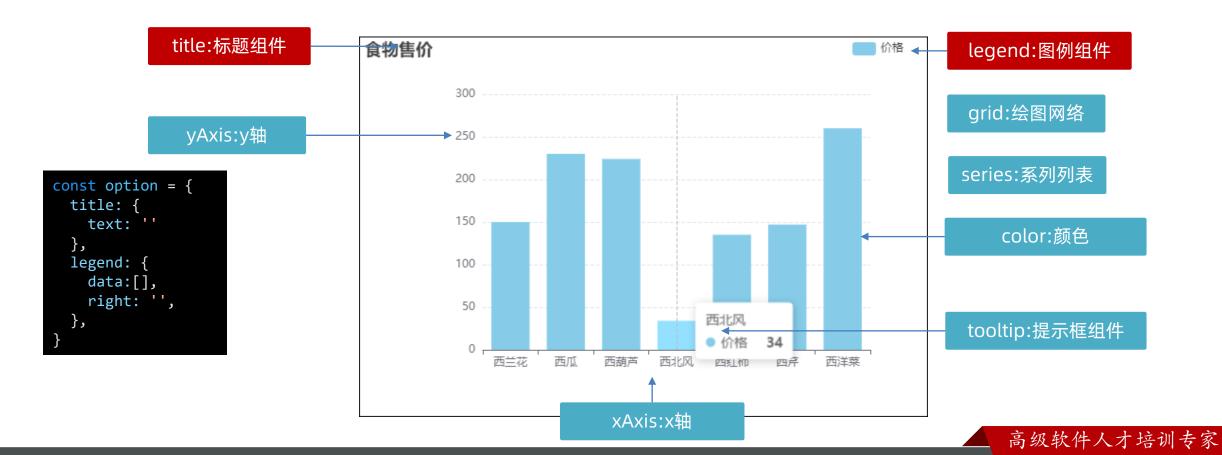




需求: 将上一节的图形, 调整为如下外观

核心步骤:

<u> 查文档</u>

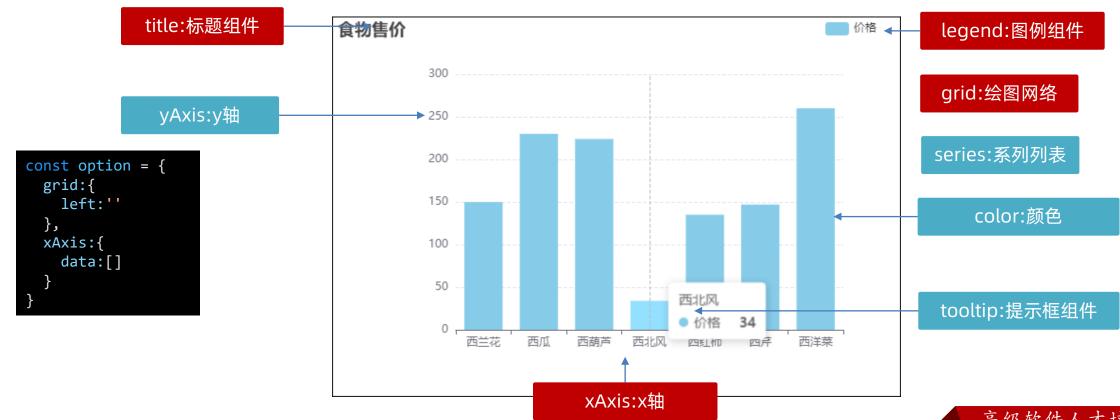




需求: 将上一节的图形, 调整为如下外观

核心步骤:

<u> 查文档</u>

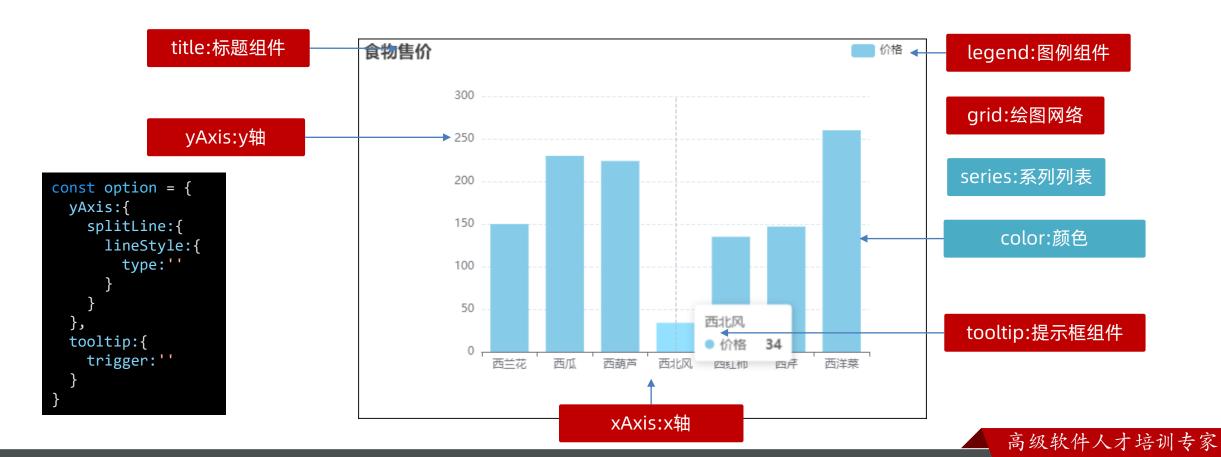




需求: 将上一节的图形, 调整为如下外观

核心步骤:

<u> 查文档</u>

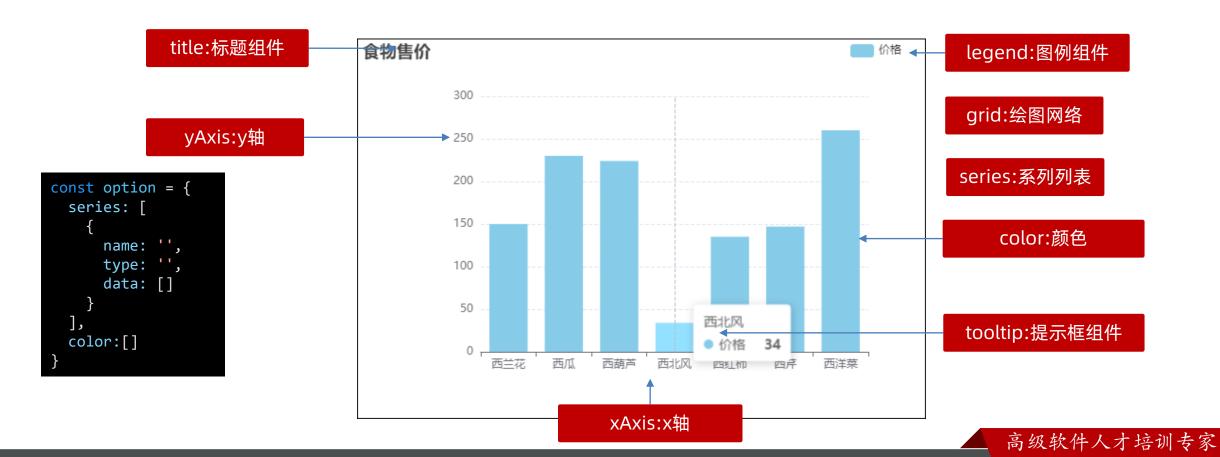




需求: 将上一节的图形, 调整为如下外观

核心步骤:

查文档





数据看板-函数抽取

核心步骤:

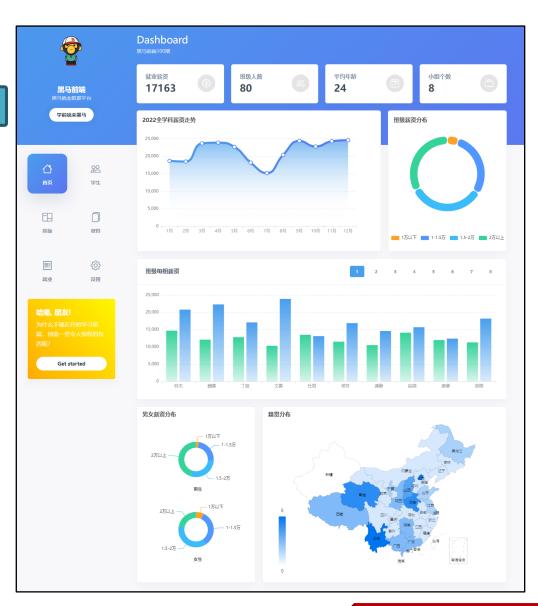
抽取函数



调用并传递数据

```
async function getData() {
  const res = await axios({
    url: '/dashboard',
  })
  // 渲染顶部数据...
}
```

```
▼ {message: ' 获取面板数据成功', data: {...}}
▼ data:
    ▶ groupData: {1: Array(10), 2: Array(10)
    ▶ overview: {salary: 16276, student_con}
    ▶ provinceData: (29) [{...}, {...}, {...}, {...}, {...}
    ▶ salaryData: (4) [{...}, {...}, {...}, {...}, {...}]
    ▶ year: (12) [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {
```





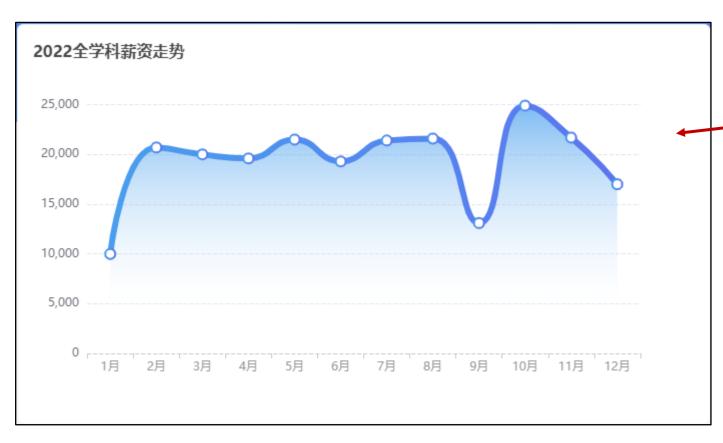
核心步骤:

找示例



整合到项目









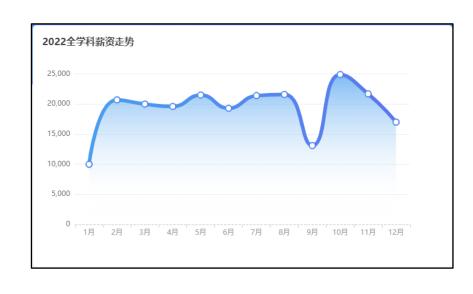
核心步骤:

找示例



整合到项目











核心步骤:

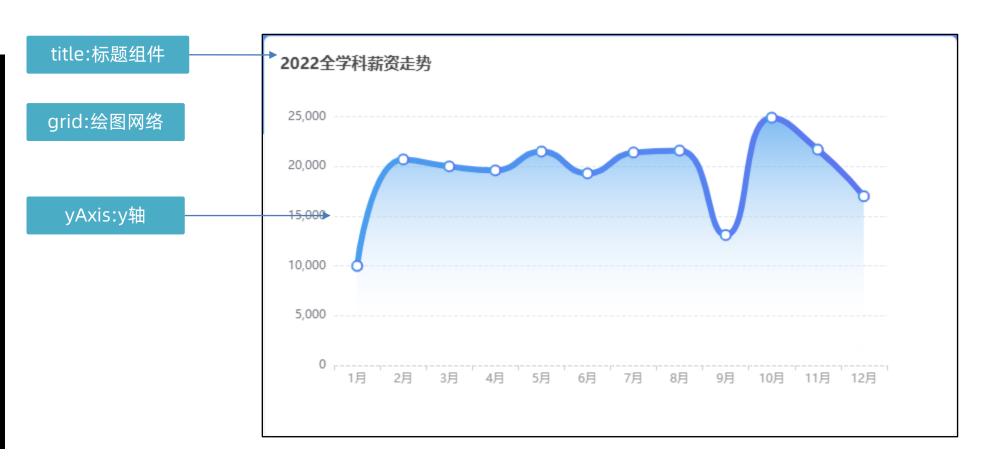
找示例



整合到项目



```
const option = {
 title: {
   text: '',
   left: '',
   top: ''
 grid: {
   top: ''
 yAxis: {
   splitLine: {
     lineStyle: {
       type: ''
   },
```





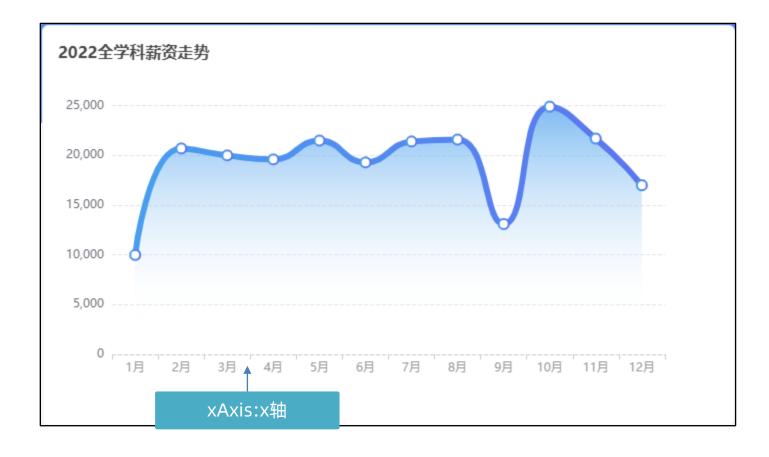
核心步骤:

找示例



整合到项目







核心步骤:

找示例

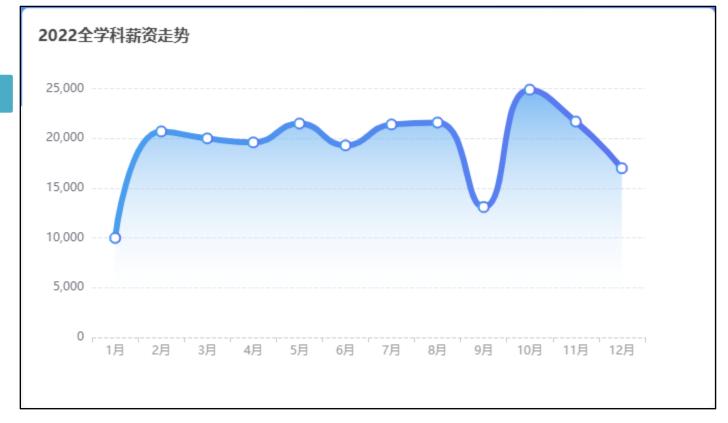


整合到项目



调整设置

series:系列列表





核心步骤:

找示例

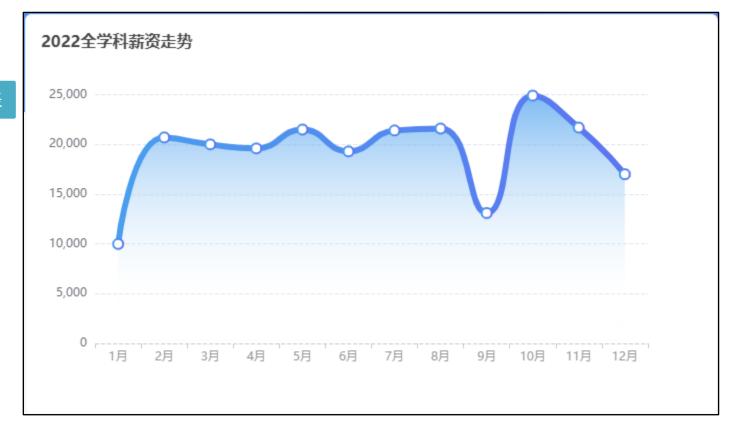


整合到项目



调整设置

series:系列列表





核心步骤:

找示例



整合到项目



```
// x0, y0, x2, y2, 范围从 0 - 1, 相当于在图形包围
盒中的百分比
{
    type: 'linear',
    x: 0,
    y: 0,
    x2: 0,
    y2: 1,
    colorStops: [{
        offset: 0, color: 'red' // 0% 处的颜色
    }, {
        offset: 1, color: 'blue' // 100% 处的颜色
    }],
    global: false // 缺省为 false
}
```

```
x=0,y=0
                                           x轴
x2=0,y2=1
       y轴
```



核心步骤:

找示例



整合到项目



```
// x0, y0, x2, y2, 范围从 0 - 1, 相当于在图形包围
盒中的百分比
{
    type: 'linear',
    x: 0,
    y: 0,
    x2: 1,
    y2: 0,
    colorStops: [{
        offset: 0, color: 'red' // 0% 处的颜色
    }, {
        offset: 1, color: 'blue' // 100% 处的颜色
    }],
    global: false // 缺省为 false
}
```

```
x2=1,y2=0
x=0,y=0
    y轴
```



核心步骤:

找示例

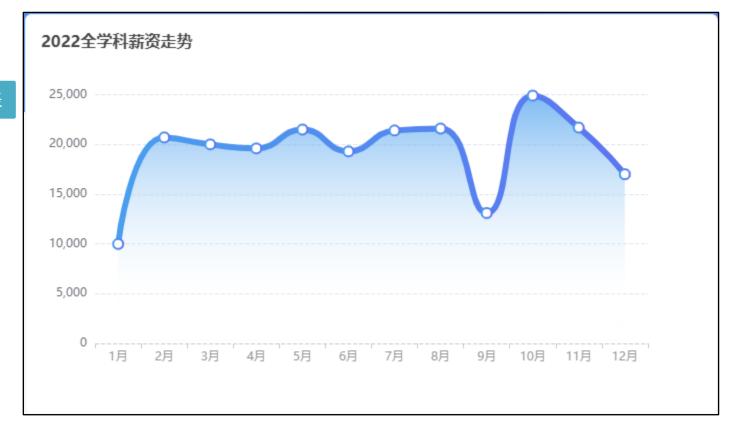


整合到项目



调整设置

series:系列列表





核心步骤:

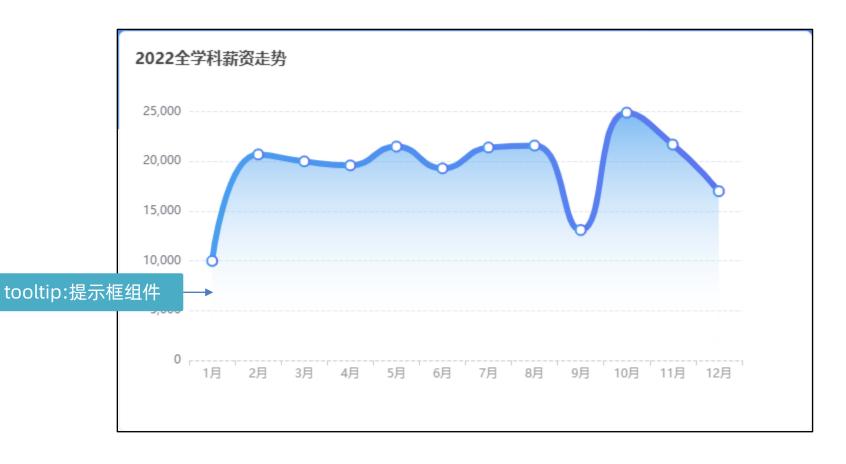
找示例



整合到项目



```
const option = {
  tooltip: {
    show:'',
    trigger:''
  }
}
```



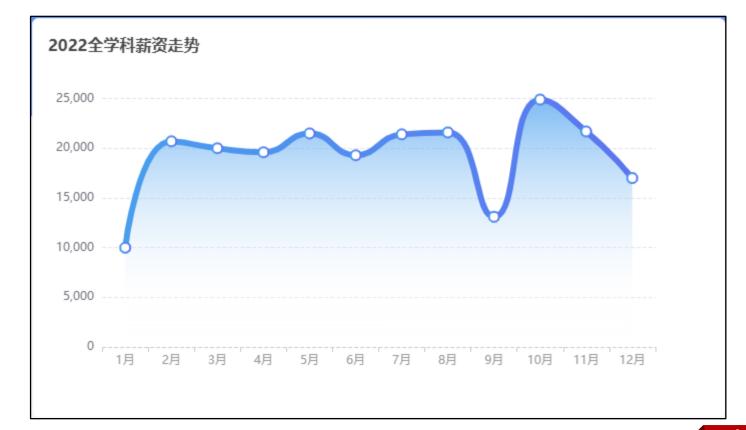


核心步骤:

找示例

整合到项目







调整设置 核心步骤: 找示例 整合到项目 Dashboard ^{黑马前鳞100期} 8 班级薪资分布 17163 学前端来黑马 1万以下 1-1.5万 1.5-2万 2万以上



核心步骤:

找示例



整合到项目











核心步骤:

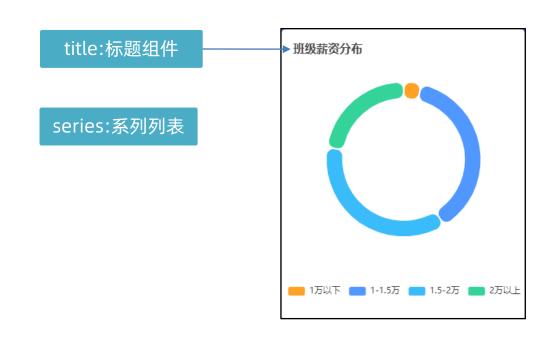
找示例



整合到项目



```
const option = {
  title: {
    left: '',
    top:''
  },
  series: [
    {
      name: '',
      type: '',
      radius: '',
      itemStyle:{}
    }
  ]
}
```





核心步骤:

找示例



整合到项目



调整设置

series:系列列表





核心步骤:

找示例



整合到项目



调整设置

series:系列列表

color:颜色





核心步骤:

找示例

整合到项目



调整设置



切换效果





核心步骤:

找示例

整合到项目

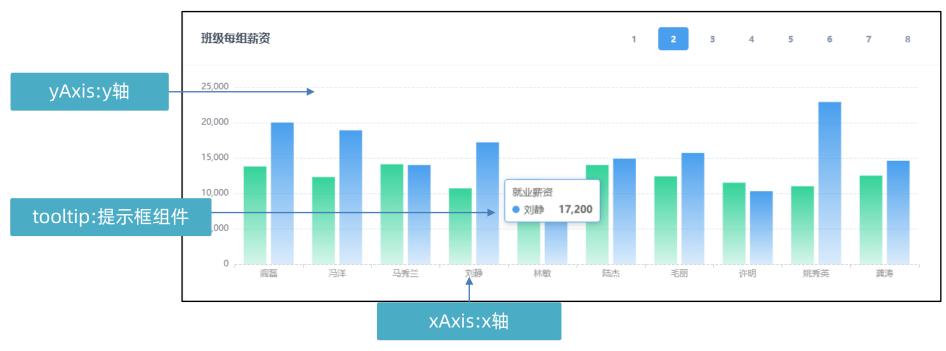


调整设置



切换效果

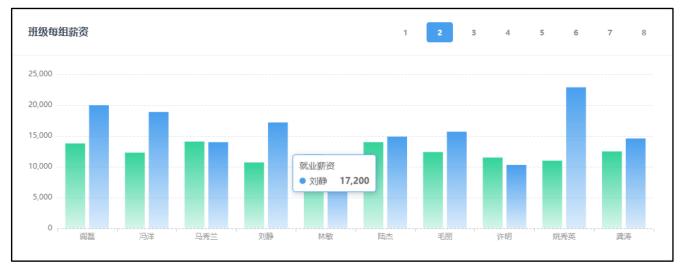






核心步骤: 投示例 整合到项目 调整设置 切换效果 抽取函数







核心步骤:

找示例



整合到项目



调整设置



切换效果

```
const option = {
 grid: {
   left: 70,
   top: 30,
   right: 30,
   bottom: 50,
 xAxis: {
   data: [],
   axisLabel: {
      color: '#999'
```

grid:绘图网络



xAxis:x轴



核心步骤:

找示例



整合到项目



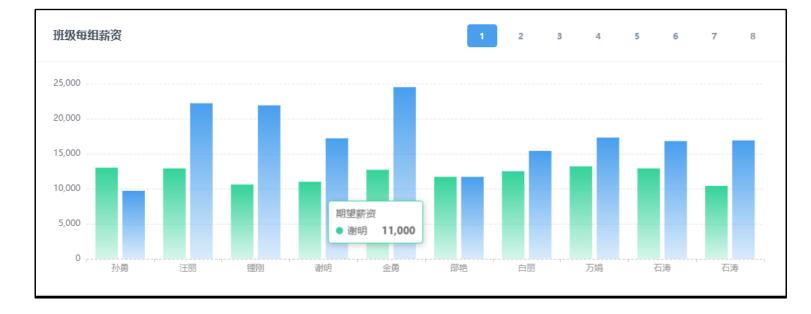
调整设置



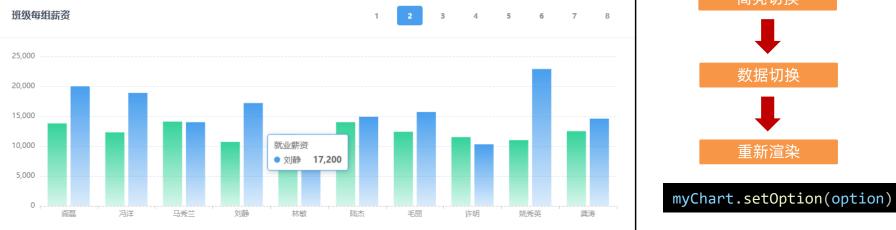
切换效果

```
const option = {
 series: [
     name: '',
     data:[],
     itemStyle: {
       color: ''
  // 左侧0%颜色
                #34D39A
    左侧100%颜色 rgba(52,211,154,0.2)
  // 右侧0%颜色
                #499FEE
  // 右侧100%颜色 rgba(73,159,238,0.2)
```

series:系列列表









核心步骤:

找示例

整合到项目



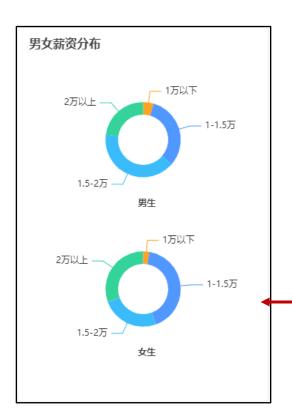
调整设置

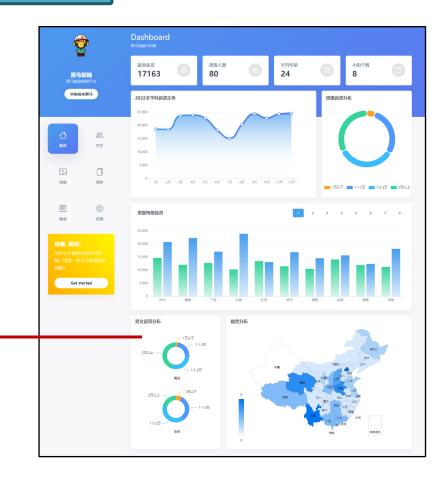
legend:图例组件

color:颜色

title:标题组件

series:系列列表







核心步骤:

找示例



整合到项目



调整设置

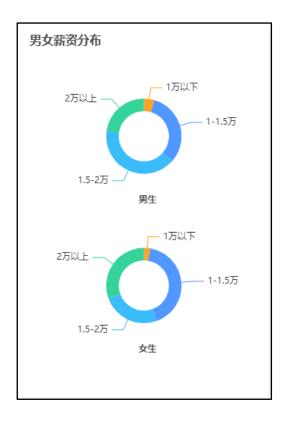
抽取函数



调用并传递数据



整合示例





核心步骤:

找示例



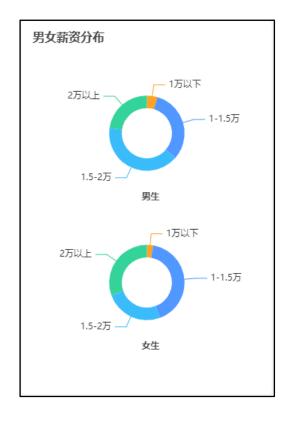
整合到项目



调整设置

```
const option = {
 title: [
     left: 10,
     top: 10,
     textStyle: {
       fontSize: 16
     left: '50%',
     top: '45%',
     textStyle: {
       fontSize: 12
     left: '50%',
     top: '85%',
     textStyle: {
       fontSize: 12
```

title:标题组件





核心步骤:

找示例

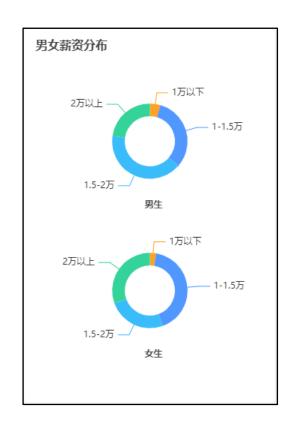


整合到项目



调整设置

series:系列列表





数据看板-籍贯分布

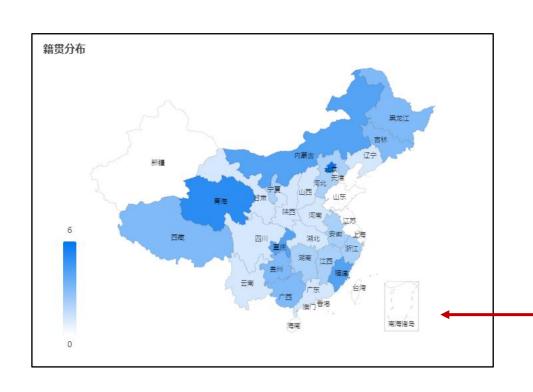
核心步骤:

社区找示例



整合到项目









数据看板-籍贯分布

核心步骤:

社区找示例



整合到项目



调整设置

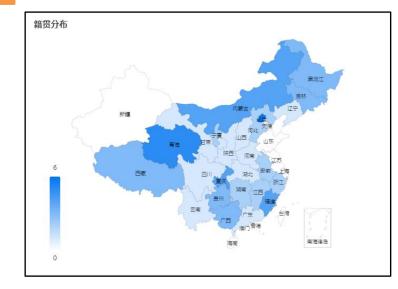
筛选数据



数据赋值

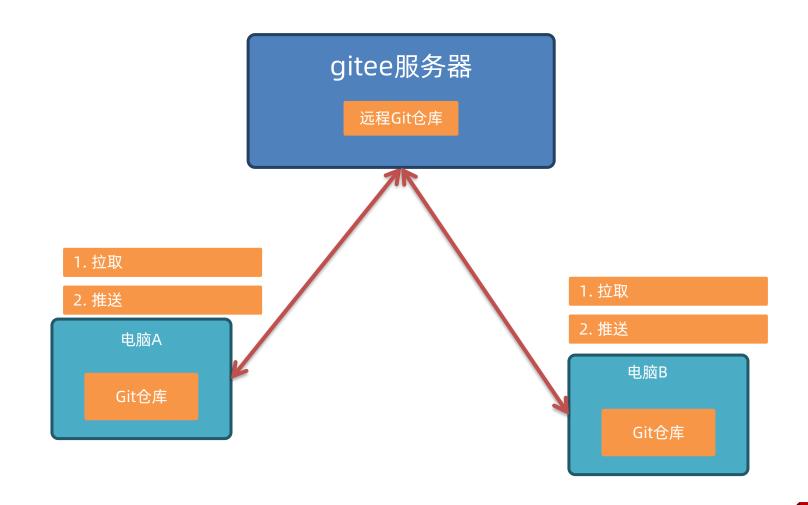
```
const dataList = [
    { name: '南海诸岛', value: 0 },
    { name: '北京', value: 0 },
    { name: '天津', value: 0 },
    { name: '上海', value: 0 },
    { name: '重庆', value: 0 },
    { name: '河南', value: 0 },
    { name: '河南', value: 0 },
    { name: '江ウ', value: 0 },
    { name: '黑龙江', value: 0 },
    { name: '湘南', value: 0 },
    { name: 'ama', value: 0 },
    { name: 'uma', value: 0 },
    { name: 'ama', value: 0 },
    { name: 'uma', value: 0 },
}    { name: 'uma', value: 0 },
}
```

```
provinceData: Array(27)
▶0: {name: '江西省', value: 2}
▶1: {name: '北京', value: 23}
▶ 2: {name: '吉林省', value: 3}
▶ 3: {name: '福建省', value: 4}
▶ 4: {name: '贵州省', value: 3}
▶ 5: {name: '重庆', value: 4}
▶6: {name: '浙江省', value: 2}
▶7: {name: '安徽省', value: 2}
▶8: {name: '河北省', value: 2}
▶9: {name: '湖南省', value: 2}
▶ 10: {name: '青海省', value: 5}
▶ 11: {name: '甘肃省', value: 1}
▶ 12: {name: '新疆维吾尔自治区', value: 3}
▶ 13: {name: '天津', value: 1}
▶ 14: {name: '黑龙江省', value: 3}
```





数据看板-代码上传





传智教育旗下高端IT教育品牌