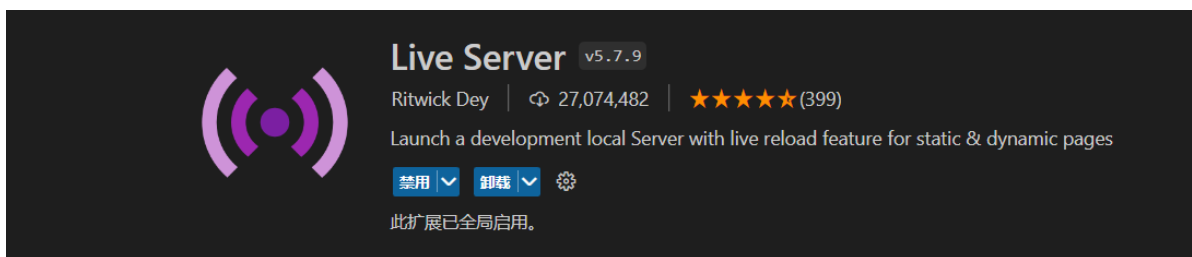
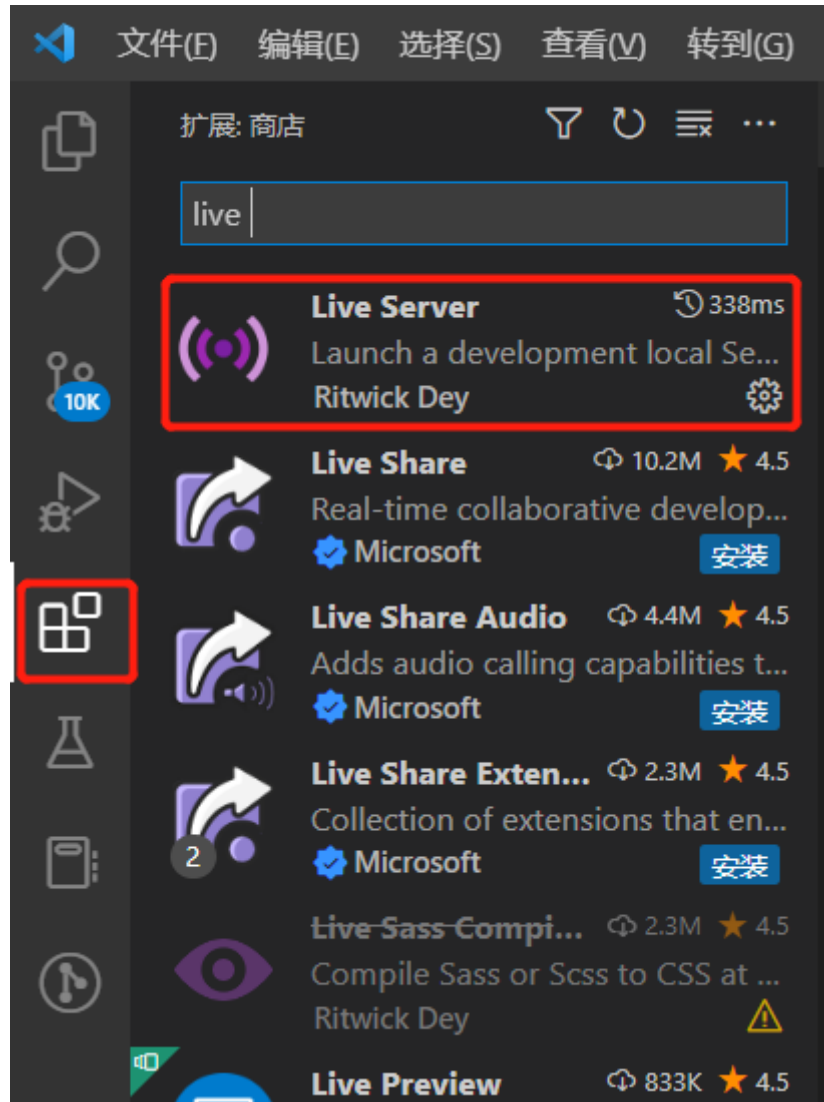


echarts简单使用

官网: [Apache ECharts](https://echarts.apache.org/)

在vscode中需要下载live server扩展



数据准备

1. 查看Race这一列的值

```
datasetDeath['Race'].head()
```

✓ 0.5s

```
Index
1. 1          Asian/Pacific Islander
   2                White
   3                White
  12  Native American/Native Alaskan
 135                White
Name: Race, dtype: object
```

2. 将Race这一列的值的种类统计出来

```
datasetDeath['Race'].value_counts(normalize=False)
```

✓ 0.6s

```
1. White          64598
   Black          22675
   Hispanic        8603
   Asian/Pacific Islander  1261
   Native American/Native Alaskan  878
Name: Race, dtype: int64
```

3. 将值转换为二维列表的格式

```
Racelist=datasetDeath['Race'].value_counts(normalize=False)
```

✓ 0.7s

```
1. # 用于echarts的数据
   # 将Racelist的数据格式化为['White', 100]的形式
   Racelist.reset_index().values.tolist()
```

✓ 0.4s

```
[['White', 64598],
 ['Black', 22675],
 ['Hispanic', 8603],
 ['Asian/Pacific Islander', 1261],
 ['Native American/Native Alaskan', 878]]
```

使用echarts

代码在visualization.html中

1. echarts实例核心代码

1.

```
option = {
  legend: {},
  tooltip: {},
  dataset: {
    source: [
      ['race', 'death'],//这一行不会出现在图中，只是为了说明以下数据的意义
      ['White', 64598],
      ['Black', 22675],
      ['Hispanic', 8603],
      ['Asian/Pacific Islander', 1261],
      ['Native American/Native Alaskan', 878]
    ],
    xAxis: {
      type: 'category'
    },
    yAxis: {
      type: 'value'
    },
    series: [
      {
        type: 'pie',//参数选择: line,bar,pie
        areaStyle: {}
      }
    ]
  }
};
```

2. 只需要修改dataset里面的source的数据，source的格式就是上面提到的二维列表

3. series里面的type可以选择折线图line，条形图bar，扇形图pie

1. 折线图，条形图的x轴可能显示不完全，因为名字太长了，可以将Native American/Native Alaskan缩写，名字改短一些

4. 右击鼠标，点击Open with live server，会跳转到浏览器中

5. `<body>`

```
<div id="main" style="width: 900px;height:700px;"></div>
<script type="text/javascript">
  var myChart = echarts.init(document.getElementById('main'));
  option = {
    legend: {},
    tooltip: {},
    dataset: {
      source: [
        ['race', 'death'],//这一
        ['White', 64598],
        ['Black', 22675],
        ['Hispanic', 8603],
        ['Asian/Pacific Islander', 1261],
        ['Native American/Native Alaskan', 878]
      ],
      xAxis: {
        type: 'category'
      },
      yAxis: {
        type: 'value'
      },
      series: [
        {
          type: 'pie',//参数选择: line,bar,pie
          areaStyle: {}
        }
      ]
    }
  };
</script>
</body>
```

开启本地服务器

关闭

6.

White Black Hispanic Asian/Pacific Islander Native American/Native Alaskan

