GeohashTile移植

代码

https://github.com/oscourse-tsinghua/undergraduate-dbin2021/tree/main/src/smart_contract

移植过程

文件替换

- 将李炜琪代码中的 geohash.js 替换为新代码中的 geohash-new.js
- 补充其他缺少的代码文件

修改 traffic.html

• 修改文件开头的 < style> 标签及脚本文件引用

```
<script src="leaflet-src-Geohash.js"></script>
<script src="leaflet.label-src.js"></script>
<script src="leaflet.label.js"></script>
<script src="OSMBuildings-Leaflet.debug.js"></script>

<script src="/usr/lib/node_modules/web3/dist/web3.min.js"></script>
<script src="./geohash-new.js"></script>
<script src="./geolib.js"></script>
<script src="./geolib.js"></script>
<script src="./common.js"></script>
<script src="GeohashLayer.GeoJSON.js"></script>
<script src="https://s3.pstatp.com/cdn/expire-1-M/jquery/3.2.1/jquery.min.js"></script>
<script src="./gpsarray.js"></script>
<script src="./gpsarray.js"></script>
<script src="./waysall.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></
```

• 修改 calcnext() 函数中在地图上绘制点的方法

```
async function calcNext() {
   var geohash = locBuffer[nowCalc];
   // 原来的方法(添加原始数据点)
   // var range = decode_geohash(geohash);
   // \text{ var midLat} = (\text{range}[2] + \text{range}[3]) / 2;
   // var midLon = (range[0] + range[1]) / 2;
   // var point = L.circle([midLat,midLon],3,
{color:'#FF0000',fillColor:'#FF0000',fillOpacity:1});
   // 现在的方法
   var point = L.polyline([geohash, geohash],
{color:'#FF0000',fillColor:'#FF0000',fillOpacity:1});
   map.addLayer(point);
   match(nowCalc);
   // 原来的方法(添加修正后数据点)
   // var range = decode_geohash(locBufferFix[nowCalc]);
   // var midLat = (range[2] + range[3]) / 2;
```

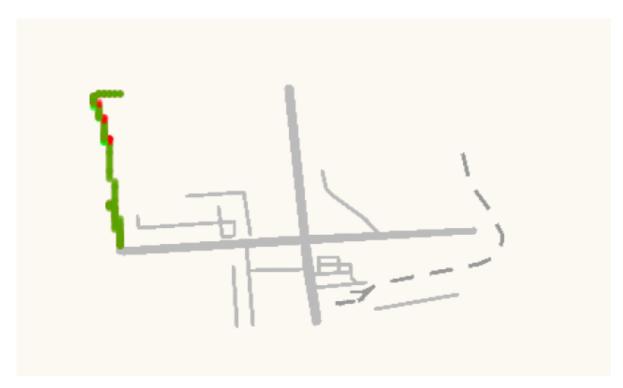
```
// var midLon = (range[0] + range[1]) / 2;
// var point = L.circle([midLat,midLon],3,
{color:'#00FF00',fillColor:'#00FF00',fillOpacity:1});
// 现在的方法
var newgeohash = locBufferFix[nowCalc];
var point = L.polyline([newgeohash,newgeohash],
{color:'#00FF00',fillColor:'#00FF00',fillOpacity:1});
map.addLayer(point);
//...
}
```

• 删去原文件中有关地图显示的代码 (在靠近文件末尾的部分)

• 在原文件最后的 <script> 标签结束后,添加董斌仓库文件中地图显示相关代码(也在文件最后)

```
<div id="map"></div>
<script>
// ...
</script>
```

效果示意



注意

- 目前与信誉计算部分没有冲突
- 在有鼠标或键盘干扰时, 地图显示部分会报如下错误:

```
● Uncaught TypeError: point is undefined
                                                                                leaflet-src-Geohash.js:593:4
       _add
                                      ...yi2021/code/leaflet-src-Geohash.js:593
       add
                                      ...yi2021/code/leaflet-src-Geohash.js:588
       layerPointToLatLng
                                      ...i2021/code/leaflet-src-Geohash.js:2039
       getCenter
                                      ...i2021/code/leaflet-src-Geohash.js:1924
       _addTilesFromCenterOut
                                      ...i2021/code/leaflet-src-Geohash.js:9647
       _update
                                      ...i2021/code/leaflet-src-Geohash.js:9637
       _update
                                      ...yi2021/code/GeohashLayer.GeoJSON.js:73
       wrapperFn
                                      ...yi2021/code/leaflet-src-Geohash.js:104
       wrapperFn
                                      ...yyi2021/code/leaflet-src-Geohash.js:99
       setTimeout handler*wrapperFn ...yyi2021/code/leaflet-src-Geohash.js:95
       wrapperFn
                                      ...yyi2021/code/leaflet-src-Geohash.js:99
       setTimeout handler*wrapperFn
                                     ...yyi2021/code/leaflet-src-Geohash.js:95
       wrapperFn
                                      ...yyi2021/code/leaflet-src-Geohash.js:99
       setTimeout handler*wrapperFn ...yyi2021/code/leaflet-src-Geohash.js:95
       wrapperFn
                                      ...yyi2021/code/leaflet-src-Geohash.js:99
       setTimeout handler*wrapperFn ...yyi2021/code/leaflet-src-Geohash.js:95
                                      ...vvi2021/code/leaflet-src-Geobash.is:99
       wrapperEn
```

可能与缩放功能相关