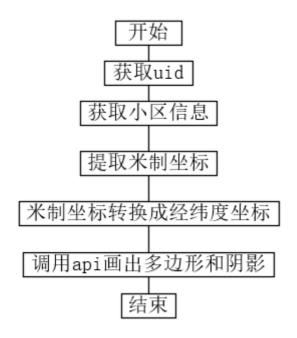
周报

百度地图和高德地图一样,已有的api接口可以直接获得县级及以上的边界。目前所知,没有现成的api接口可以获得乡镇、村乃至小区边界。网上方法采用web解析的方法分析百度地图实现边界。流程如下:



1、初始化百度地图

```
var map = new BMap.Map("container");
// 创建地图实例
var point = new BMap.Point(116.404, 39.915);
// 创建点坐标
map.centerAndZoom(point, 15);
// 初始化地图,设置中心点坐标和地图级别
map.enableScrollWheelZoom();
```

2、获取需要小区的UID

通过百度提供的IS接口LocalSearch的Search方法搜索小区名称,返回LocalResult中包含POI的uid.

```
▼Array(10) □

▶0: {title: "双滴大屋", uid: "aa2d18699dcfe156dfle525f", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3Daa2d18699dcfe156dfle525f%26ck3D131&i=0&sr=1", _]

▶1: {title: "双滴大屋", uid: "7ffb8685c4e16a2e2dfaa7dd", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D7ffb8685c4e16a2e2dfaa7dd%26c%3D131&i=0&sr=1", _]

▶2: {title: "双滴大屋-2号楼", uid: "Ab27973979369e9ds18b871", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D8467973973969e9ds18b971", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D8467973973969e9ds18b9711%26c%3D131&i=0&sr=1", _]

▶3: {title: "周克大屋", uid: "484c28a38e49be1fb1077de5", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D644c28a3843b917186d56718b973e8-1", _]

▶5: {title: "珍汰大屋", uid: "546c46f8a1788457fa78ae", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D644c8a18818657fa78ae", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D644c8a18818657fa78ae", uid: "546c46fa3188457fa78ae", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D644c8a268a808995ca0700%26c%3D131&i=0&sr=1", _]

▶7: {title: "邓清大屋", uid: "f03b45faa3421e8e3b221cdd", point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D745a865d2912d667803D131&i=0&sr=1", _]

▶8: {title: "邓清大屋", uid: "f32b651769996057f29b657f, point: N, pointN: H, url: "http://map.baidu.com/?s=inf%26uid%3D7bfa88fc5563220125d2b23%, p
```

3、获取小区信息

根据网上提供的分析,获取小区信息有关的url为"<u>http://map.baidu.com/?pcevaname=pc4.1&qt=ext&ext_ver=new&l=12&uid="+uid,获取信息如下。</u>

通过分析, content中的geo为边界坐标集合。

4、坐标转换

现在所获取到的小区边界坐标集合是百度墨卡托米制坐标,即BD09MC,现在需要将米制坐标转换为经纬度坐标,即BD09LL。百度提供了BMAP_NORMAL_MAP.getProjection()。这个类里面的pointToLngLat(new BMap.Pixel(pos.lng, pos.lat));方法,可以将百度米制坐标转为经纬度坐标。

```
function coordinateToPoints(coordinate) {
   var points ="";
    if (coordinate) {
        var projection = BMAP_NORMAL_MAP.getProjection();
        if (coordinate && coordinate.indexOf("-") >= 0) {
            coordinate = coordinate.split('-');
        }
        //取点集合
        var tempco = coordinate[1];
        if (tempco && tempco.indexof(",") >= 0) {
            tempco = tempco.replace(";","").split(",");
        }
        //分割点,两个一组,组成百度米制坐标
        var temppoints=[];
        for(var i = 0, len = tempco.length; i < len; i++){
            var obj = new Object();
           obj.lng=tempco[i];
           obj.lat=tempco[i+1];
           temppoints.push(obj);
           i++;
        }
        //遍历米制坐标,转换为经纬度
        for (var i = 0, len = temppoints.length; i < len; i++) {
            //var pos = coordinate[i].split(',');
           var pos = temppoints[i];
           var point = projection.pointToLngLat(new BMap.Pixel(pos.lng,
pos.lat));
           points += ([ point.lng, point.lat ].toString() + ";");
        }
    return points;
};
```

```
▼Array(7)  
▶ 0: N {lng: 116.346393, lat: 40.013691}
▶ 1: N {lng: 116.346303, lat: 40.013246}
▶ 2: N {lng: 116.346339, lat: 40.013004}
▶ 3: N {lng: 116.346389, lat: 40.012614}
▶ 4: N {lng: 116.347516, lat: 40.012254}
▶ 5: N {lng: 116.347982, lat: 40.013198}
▶ 6: N {lng: 116.346393, lat: 40.013691}
length: 7
▶ __proto__: Array(0)
```

5、画出多边形

调用百度api,根据坐标点画多边形

```
var polygon = new BMap.Polygon(arr, {strokeColor:"red", strokeWeight:2,
strokeOpacity:0.5});
map.addOverlay(polygon);
```

效果如下:



源码: https://github.com/QYongCN/houseboundary.git

现有问题及改进

- 1、当前地图以北京市为中心点,可以画出北京市任意POI点边界。当查找不在北京市的POI时,会随机画一个同名POI,当POI地址越准确,画的越精确
- 2、由于采用抓包的方式获取小区信息,url的稳定性还存在疑问。这种方法是否合法有待商榷。
- 3、当前只能搜索出一个POI然后画出边界,同时画出所有POI边界也有待研究。
- 4、在测试过程中,会存在某些点没有边界坐标集合的情况
- 5、尝试过web解析高德地图进行画边界,网上提供的url已经不能用,状态返回码为0,可以得到POI的id但是得不到地理坐标