LBS sth

王晓开 2016/12/22

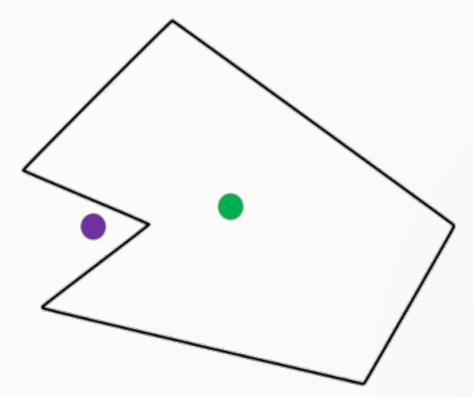
agenda

geofence

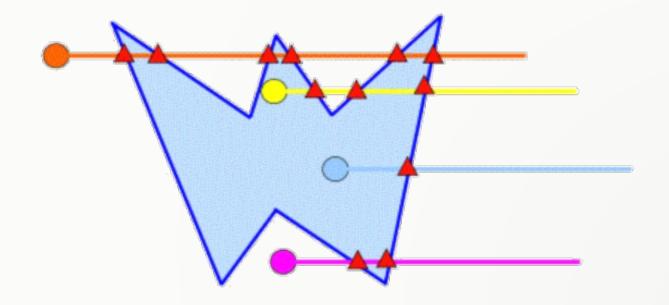
nearby

grid

如何判断点在多边形的内部、外部?



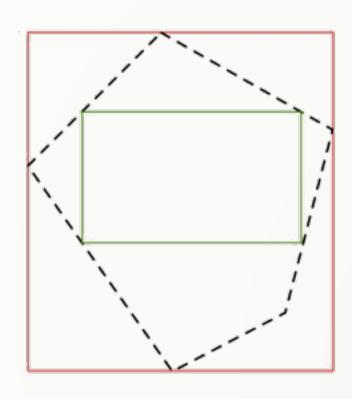
ray cast



奇数: 内部 偶数: 外部 复杂度: O(n)

- 1. 最小外接矩形
- 2. 最大内接矩形

优化: Rtree索引



Material:

http://www.homer.com.au/webdoc/geometry/point_in_polygon.htm

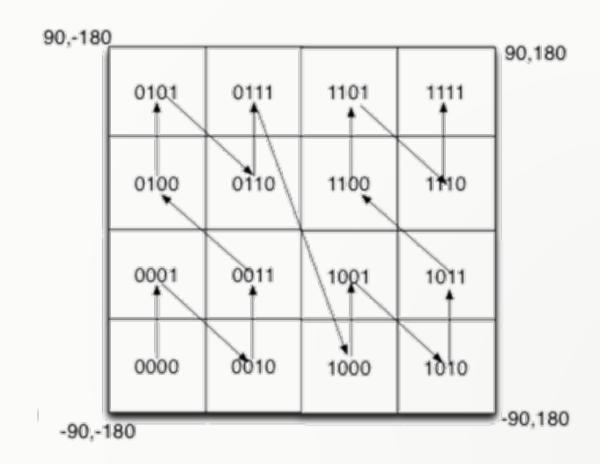
https://en.wikipedia.org/wiki/Point_in_polygon#Ray_casting_algorithm

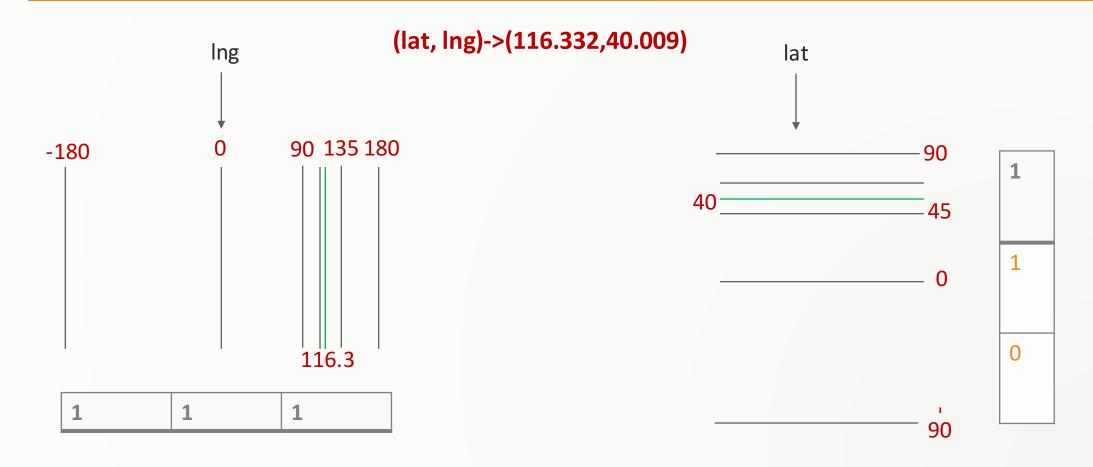
编码方式: geohash

填充方式: peano

对比uber:

填充方式: hilbert



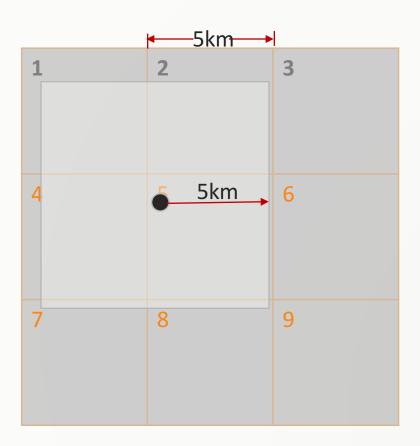


geohash: 1 1 1 1 0



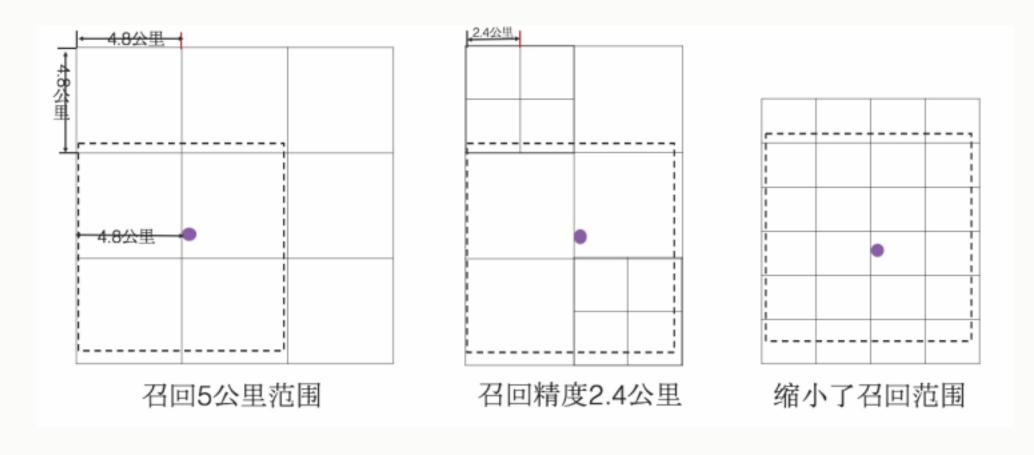
召回方式: 九宫格

以格子半径画圆过滤: 过滤后只召回1、2、4、 5、7、8 格子



• grid split to smaller

geohash九宫格



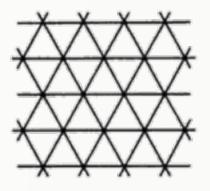
Material:

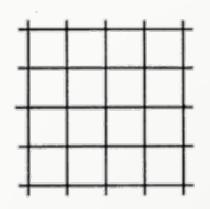
https://en.wikipedia.org/wiki/Geohash

http://www.cnblogs.com/LBSer/p/3310455.html

grid

- 采样效率高
- 覆盖率、角度分辨率高
- 消除领域歧义
- 更多策略支持









Material:

http://wenku.baidu.com/view/f163be430c22590102029de6.html?from=search

《图像工程》:第三章,数字化的图像

http://www.redblobgames.com/grids/hexagons/

THANK YOU