# OpenStreetMap数据探索

## 1.节点检查

```
In [1]:  import xml.etree.ElementTree as ET
         import pprint
         import re

         OSM_FILE_NAME = "map.xml"
```

```
In [2]:  NODE_TYPES = set()

         def get_node_types(file_name="sample.xml"):
             context = ET.iterparse(file_name, events=('start', 'end'))
             _, root = next(context)
             for event, elem in context:
                 if event=='start':
                     #print('start----'+elem.tag)
                     NODE_TYPES.add(elem.tag)
```

```
In [3]:  get_node_types(OSM_FILE_NAME)
         print(NODE_TYPES)
```

```
{'nd', 'remark', 'tag', 'way', 'member', 'bounds', 'relation', 'node', 'note', 'meta'}
```