GeoJSON Specifications

A small document about GeoJson and Isiviewer.js

Manikanta - February 3, 2015



Introduction

GeoJSON is a format for encoding a variety of geographic data structure.

```
{
    "type": "Feature",
    "geometry": {
         "type": "Point",
         "coordinates": [125.6, 10.1],
    },
    "properties": {
         "name": "Manikanta's dorm room"
    }
}
```







Present Scenario:

GeoJSON supports the following geometry types: <u>Point, LineString, Polygon, MultiPoint, MultiLineString,</u> and <u>MultiPolygon</u>. Lists of geometries are represented by Geometry Collection. Geometries with additional properties are Feature objects. And lists of features are represented by a FeatureCollection. FeatureCollection represents a list of features.

Lets see a few examples of how these features are encoded into a json object.

```
Point:
{ "type": "Point", "coordinates": [100.0, 19.0] }
```

LineString: { "type":"LineString", "coordinates":[[101.1, 99.2], [102.4, 99.5]] • Polygon:

• MultiPoint:

```
{"type": "MultiPoint", "coordinates": [[11.4, 34.2], [10.5, 34.8], [32.4, 43.8], [11.4, 53.8]]}
```

• MultiLineString:

• MultiPolygon:

How to draw GeoJSON on Canvas?

I'll help you in understanding the process and things we must do to draw the map on canvas.

- Bounding Box(xMin, xMax, yMin, yMax)
- Scale (xScale, yScale)
- Coordinates
- Draw Function(moveTo, lineTo, drawRect for Points)