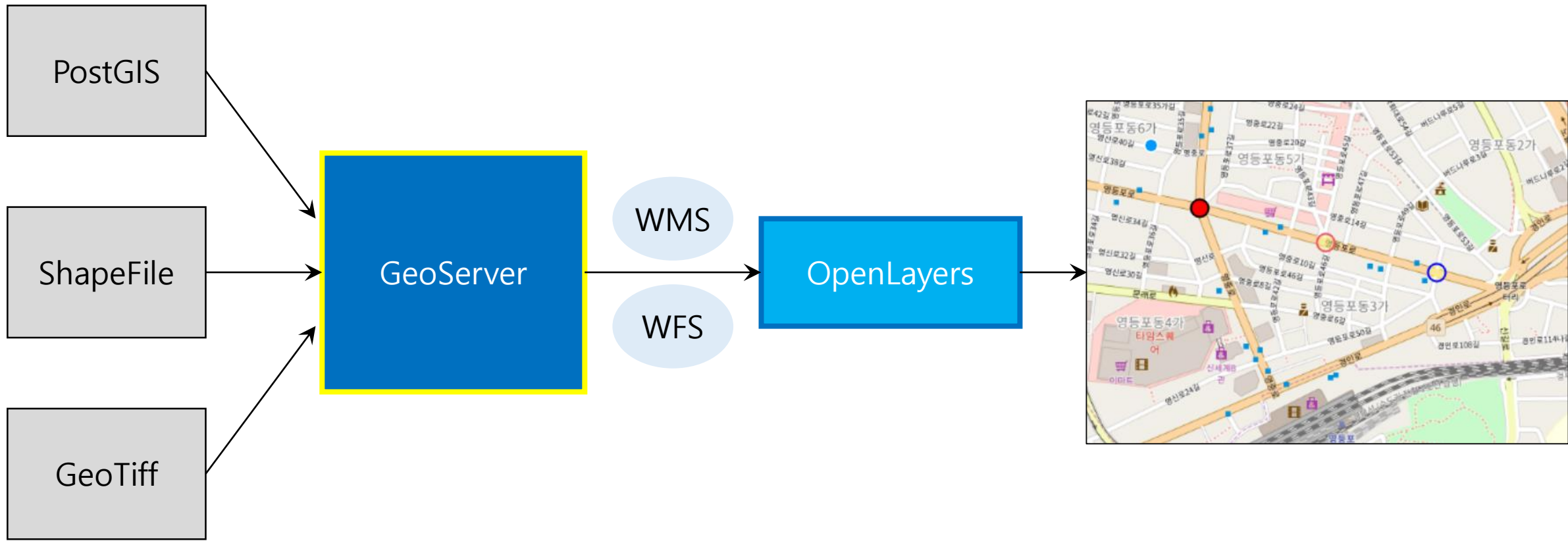


# GIS

2019.08.13



김현정(kimhj@gaia3d.com)





점

Point

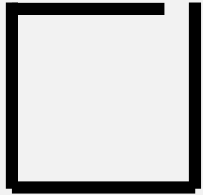
POINT(0 0)



선

LineString

LINESTRING(0 0,1 1,1 2)

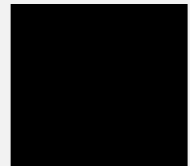
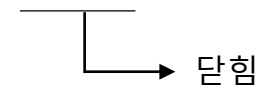


점을 연결한 선

면

Polygon

POLYGON((0 0, 4 0, 4 4, 0 4,  
0 0))



안이 채워진 면

# 경위도 [lon, lat]

longitude

X

latitude

Y



126도



37도

38선을 생각해보자!

# 공간 함수

ST\_GeomFromText

ST\_AsText

ST\_Transform

-- WKT (Well Known Text)

```
SELECT 'POINT(127.5555 37.4444)' wkt;
```

-- Geometry

```
SELECT ST_GeomFromText('POINT(127.5555 37.4444)', 4326) geometry;
```

```
SELECT ST_AsText(ST_GeomFromText('POINT(127.5555 37.4444)', 4326)) geometry;
```

--### EPSG:5179

```
SELECT ST_Transform(ST_GeomFromText('POLYGON((947140.234434276 1944878.07856417,
                                                    947135.492270308 1944857.69223581,
                                                    947121.813178482 1944861.01130166,
                                                    947126.555374495 1944881.39762267,
                                                    947140.234434276 1944878.07856417))', 5179), 4326);
```

--### EPSG:4326

```
SELECT ST_AsText(ST_Transform(ST_GeomFromText('POLYGON((947140.234434276 1944878.07856417,
                                                    947135.492270308 1944857.69223581,
                                                    947121.813178482 1944861.01130166,
                                                    947126.555374495 1944881.39762267,
                                                    947140.234434276 1944878.07856417))', 5179), 4326));
```

--### EPSG:4326

```
SELECT ST_GeomFromText('POLYGON((126.901961326196 37.5016567920849,
                                                    126.901909143226 37.5014727749835,
                                                    126.90175415172 37.5015019066603,
                                                    126.901806334691 37.5016859237618,
                                                    126.901961326196 37.5016567920849))', 4326);
```

# Shape File

.dbf

속성정보

.shp

공간정보

Shape File의 필수 요소 입니다.

.shx

속성-공간 매칭 파일

.prj

좌표계 명시

있으면 너무 좋습니다.

.cpk

인코딩