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02. Coord Converter

eungyu kim edited this page 11 minutes ago · 3 revisions

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UTMK-K 란?

UTMK 객체는 한국형 UTM(Universal Transverse Mercator)좌표계를 나타내는 것으로 UTMK 좌표계와 관련된 좌표 변환 매서드를 제공합니다.

World Position To UTM-K Sample

Code

CoordConverter converter = new CoordConverter();
string kcode = converter.WorldPositonToKcode(1387599.176629074, 1924687.6551367077);
Debug.Log("kcode : " + kcode);

Result

kcode : 사 사 8759 2468

wgs84 To grs80 Sample

code

TextAsset geojson = Resources.Load("Data/MapSample.geojson1") as TextAsset;
FeatureCollection collection = GeoJSONObject.Deserialize(geojson.text);
double[] utmkArray = converter.WGS84ToUTMK(collection);

Result

output UTM-K p0 = 1386963.92799256 1924577.6472861

UTM-K To World Position Sample

Code

Vector3[] worldPositions = converter.UTMKToWorldPosition(utmkArray);
Debug.Log("Length : " + worldPositions.Length);
Debug.LogFormat("p[0] x:{1} y:{2} z:{3}", 0, worldPositions[0].x, worldPositions[0].y, worldPositions[0].z);

Result

p0 x:86963.88 y:1000 z:24577.63

UTM-K To WGS84 Sample

Code

double[] wgs84Array = converter.UTMKToWGS84(utmkArray);
Debug.LogFormat("wgs84 p[0] x:{1} y:{2}", 0, wgs84Array[0], wgs84Array[1]);

Result

wgs84 p0 x:131.861679077496 y:37.2397537227502

Reference

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01. GeoJSON

02. Coord Converter

UTMK-K 란?

World Position To UTM-K Sample

wgs84 To grs80 Sample

UTM-K To World Position Sample

UTM-K To WGS84 Sample

Reference

03. Calculate Area

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