GeoJSON Cheat Sheet

by voldy87 via cheatography.com/83527/cs/19789/

Useful links

RFC [EN] WIkipedia [EN]

Overview

Use	geospatial data interchange
Based on	JSON
Coordinate system	Word Geoedtic System (WGS 1984, EPSG:4326)
MIME	*application/geo+json*
File format type	GIS
Extensions	*.json*, *.geojson*
Coordinate format	Decimal degree (e.g. 104.0)

Position & Coordinates

What is the position?

> The smallest unit that we can really consider 'a place' since it can represent a point on earth

What is a coordinate?

> A single number representing a single dimension.

How does a position look like?

> An array of 2 or 3 coordinates (decimal float numbers)

The first is..?

> *Easting* for projected coordinates, *Longitude* for geographic coordinates

.. and the second?

> *Northing* for projected coordinates, *Latitude* for geographic coordinates

.. while the third (optional) is ..?

> Altitude or Elevation

External members

bbox

Geometries

Name	Category	Children	Example
Point	single (primitive)	"coordinates": single position	`{ "type": " Poi nt", "coordinates": [100.0, 0.0] }`

Geometries (cont)

LineString	single (primitive)	"coordinates": array of positions	`{ "type": "LineString", "coordinates": [ [100.0, 0.0], [101.0, 1.0] ] }`
Polygon	single (primitive)	"coordinates": array of at least 4 closed *LineStrings* where the first element is the exterior ring, the other interior rings (or holes)	`{ " typ e": " Pol ygo n " coo rdi nat es": [ [[35, 10], [45, 45] [[20, 30], [35, 35] }`
MultiPoint	multipart	"coordinates": array of 2 or more positions	`{ " typ e": " Mul tiP o " coo rdi nat es": [ }`
MultiLineString	multipart	"coordinates": array of LineString "coordinates" arrays	`{ " typ e": "MultiLineS "coordinates": [`

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Geometries (cont)

MultiPolygon	multipart	"coordinates": array of Polygon "coordinates" arrays	`{ " typ e": "MultiPolygon", "coordinates": [`

Geometries (cont)

GeometryCollection	collection	"geometries": array of single or multipart geometries	`{ ] " typ e": " Ge }] } [102.0, 2.`

GeoJSON Objects

Name	Properties	Example
Feature	"geometry": geometry or null, "properties": generic JSON or null	{ "type": "Feature", "geometry": { "-type": "Point", "coordinates": [125.6, 10.1] }, "properties": { "name": "-Dinagat Islands" } }

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GeoJSON Objects (cont)

FeatureCollection	"geometries": array of single or multipart geometries	{ "type": "FeatureCollection", "features": [{ "type": "Feature", "geometry": { "type": "Point", "coordinates": [102.0, 0.5] }, "properties": { "prop0": "value0" } }, { "type": "Feature", "geometry": { "type": "LineString", "coordinates": [[102.0, 0.0], [103.0, 1.0], [104.0, 0.0], [105.0, 1.0]] }, "properties": { "prop0": "value0", "prop1": 0.0 } }, { "type": "Feature", "geometry": { "type": "Polygon", "coordinates": [[[100.0, 0.0], [101.0, 0.0], [101.0, 1.0], [100.0, 1.0], [100.0, 0.0]]] }, "properties": { "prop0": "value0", "prop1": { "this": "that" } } }] }

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