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# Command Reference: WriteTableToGeoJSON()

## Write a table to a GeoJSON file

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The `WriteTableToGeoJSON()` command writes a table to a GeoJSON file, which is a spatial data format that can be viewed in geographic information system (GIS) software and other visualization tools. See:

<http://geojson.org/geojson-spec.html>

The table must include columns for longitude and latitude or a column containing Well Known Text (WKT) geometry strings. See:

[http://en.wikipedia.org/wiki/Well-known\\_text](http://en.wikipedia.org/wiki/Well-known_text)

Currently only point and polygon data can be processed but in the future support for well-known text for other geometry types will be added. A future enhancement of this command will allow the geometry feature data to be read from other spatial formats.

The following dialog is used to edit the command and illustrates the command syntax for point data in separate columns.

Write a table to a GeoJSON file, for use in spatial data processing and visualization. Longitude, latitude, elevation, and other GeoJSON values are taken from table columns. The working directory is: C:\owf-gitrepos\cdss-app-tstool-test\test\regression\commands\general\WriteTableToGeoJSON

Table ID: StationMeta Required - table to output.

Shapefile to write: Results/Test\_WriteTableToGeoJSON\_LonLat\_out.json Browse

Append?: Optional - append content to file? (default=False).

Point Data Geometry Data Properties JavaScript

If the data are for a point layer, then spatial information can be specified from separate table columns (below). Otherwise, specify shape data using parameters in the Geometry Data tab.

Longitude (X) column: Lon Required - column containing longitude, decimal degrees.

Latitude (Y) column: Lat Required - column containing latitude, decimal degrees.

Elevation (Z) column: Optional - column containing elevation.

Command: WriteTableToGeoJSON(TableID="StationMeta",OutputFile="Results/Test\_WriteTableToGeoJSON\_LonLat\_out.json",LongitudeColumn="Lon",LatitudeColumn="Lat",ExcludeColumns="WKTGeometry")

Add Working Directory Cancel OK

WriteTableToGeoJSON

### WriteTableToGeoJSON() Command Editor for Point Data Parameters

The following figure illustrates the command syntax for layers specified with a geometry data column.

Point Data Geometry Data Properties JavaScript

Geometry (shape) data can be specified using Well Known Text (WKT) strings in a table column.  
Currently only POINT and POLYGON geometry are recognized but support for other geometry types will be added in the future.  
Coordinates in the WKT strings must be geographic (longitude and latitude decimal degrees).

WKT geometry column:

Required for geometry data - column containing WKT strings.

WriteTableToGeoJSON\_WKTGeometry

### WriteTableToGeoJSON() Command Editor for Geometry Data Parameters

The following figure illustrates the command syntax for specifying table columns to include as properties in the GeoJSON output.

Point Data Geometry Data Properties JavaScript

Specify columns to be output in the GeoJSON feature "properties" list.

Include columns:

Optional - columns to include (default=include all).

Exclude columns:

Optional - columns to exclude (default=exclude none).

WriteTableToGeoJSON\_Properties

### WriteTableToGeoJSON() Command Editor for Property Parameters

The following figure illustrates the command syntax for specifying the JavaScript variable for the output object.

Point Data Geometry Data Properties JavaScript

The default is to output GeoJSON in a format similar to the following:

```
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "properties": {
      }
      "geometry": {
        "type": "Point",
        "coordinates": [-105.89194, 38.99333]
      }
    }, { repeat for each feature },...
  ]
}
```

The entire output will correspond to one JavaScript object.  
However, if a JavaScript variable is specified, the object will be assigned to a JavaScript variable. This allows direct use of the file in a website

JavaScript variable:

Optional - JavaScript variable for GeoJSON object (default=none).

WriteTableToGeoJSON\_JavaScript

### WriteTableToGeoJSON() Command Editor for JavaScript Parameters

The command syntax is as follows:

```
WriteTableToGeoJSON (Parameter=Value, ...)
```

### Command Parameters

Parameter	Description	Default
TableID	Identifier for the table to write. Can be specified using <code>\${Property}</code> notation.	None – must be specified.
OutputFile	The name of the GeoJSON file to write, as an absolute path or relative to the command file location. Can be specified using <code>\${Property}</code> notation.	None – must be specified.
Append	Indicate whether to append the GeoJSON content to the output file, <code>True</code> or <code>False</code> .	<code>False</code>
Longitude Column	The name of the table column that contains longitude.	None – must be specified.
Latitude Column	The name of the table column that contains latitude.	None – must be specified.
Elevation Column	The name of the table column that contains elevation.	Elevation is omitted.
WKTGeometry Column	The name of the table column that contains Well Known Text (WKT) geometry strings.	
IncludeColumns	List of column-separated table column names to include as feature properties.	Include all columns.
ExcludeColumns	List of column-separated table column names to exclude as feature properties.	Exclude no columns.
JavaScriptVar	Name of JavaScript variable to assign object to in output.	Output GeoJSON object surrounded by <code>{ }</code> .

The following example illustrates a CSV table that specifies WKT for points (see WKTGeometry column):

```
"ID","ID_text","Lon","Lat","Name","WKTGeometry"
50263,050263,-105.891940,38.993330,ANTERO RSVR,"POINT (-105.891940 38.993330) "
50454,050454,-105.476670,39.404720,BAILEY,"POINT (-105.476670 39.404720) "
50848,050848,-105.266670,39.991940,BOULDER,"POINT (-105.266670 39.991940) "
```

The following example illustrates a CSV table that specifies WKT for polygons:

```
"ID","ID_text","Lon","Lat","Name","WKTGeometry"
50263,050263,-105.891940,38.993330,ANTERO RSVR,"POLYGON (-105.891940
38.993330,-106 39,-106 37.5) "
50454,050454,-105.476670,39.404720,BAILEY,"POLYGON (-105.476670 39.404720, -
104 39, -103 37.5) "
```

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