Command Reference: WriteTableToKml()

Write a table to a KML file

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The WriteTableToKml() command writes a table to a Keyhole Markup Language (KML) file, which is a spatial data format used by Google Earth and web mapping software. See:

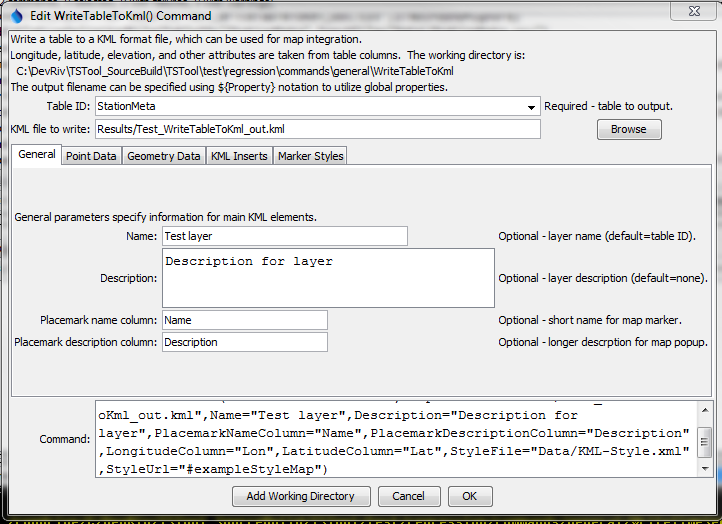
<https://developers.google.com/kml/documentation/topicsinkml>

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

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.

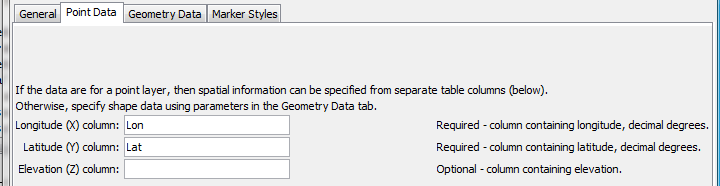
The following dialog is used to edit the command and illustrates the command syntax for general parameters.



WriteTableToKml

WriteTableToKml() Command Editor for General Parameters

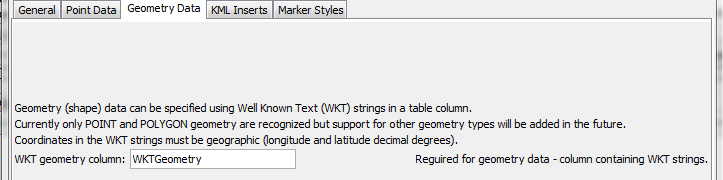
The following figure illustrates the command syntax for point data in separate columns.



WriteTableToKml\_Point

WriteTableToKml() Command Editor for Point Data Parameters

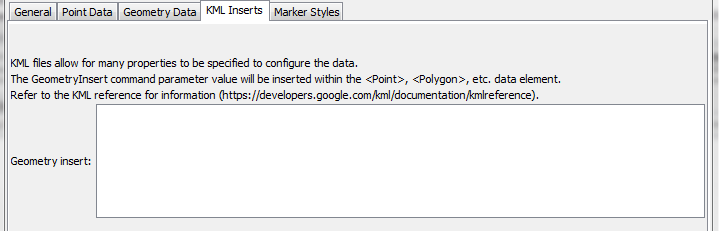
The following figure illustrates the command syntax for layers specified with a geometry data column.



WriteTableToKml\_Geometry

WriteTableToKml() Command Editor for Geometry Data Parameters

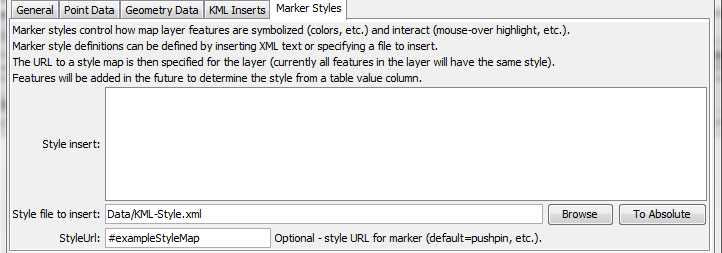
The following figure illustrates the command syntax for KML inserts. This allows KML elements to be inserted in the KML file.



WriteTableToKml\_KmlInsert

WriteTableToKml() Command Editor for KML Insert Parameters

The following figure illustrates the command syntax for marker style parameters.



WriteTableToKml\_Styles

WriteTableToKml() Command Editor for Marker Style Parameters

The command syntax is as follows:

WriteTableToKml(Parameter=Value,…)

Command Parameters

| Parameter | Description | Default |
| --- | --- | --- |
| TableID | Identifier for the table to write. | None – must be specified. |
| OutputFile | The name of the KML file to write, as an absolute path or relative to the command file location. | None – must be specified. |
| Name | The name of the layer, corresponding to the <name> KML element. | Table ID. |
| Description | The description for the layer, corresponding to the <description> KML element. The text can contain HTML markup. | Blank |
| Placemark  NameColumn | The name of the table column that contains placemark names, corresponding to the KML <Placemark><name> element. | Blank |
| Placemark  Description  Column | The name of the table column that contains placemark descriptions, corresponding to the KML <Placemark><description> element. The description text in the table can contain HTML markup. | Blank |
| Longitude  Column | The name of the table column that contains longitude, corresponding to the KML <Point><coordinates> element. | None – must be specified. |
| Latitude  Column | The name of the table column that contains latitude, corresponding to the KML <Point><coordinates> element. | None – must be specified. |
| Elevation  Column | The name of the table column that contains elevation, corresponding to the KML <Point><coordinates> element. | Elevation is omitted. |
| WKTGeometry  Column | The name of the table column that contains Well Known Text (WKT) geometry strings. |  |
| GeometryInsert | Text containing KML elements to insert after <Point>, <Polygon> or other elements, used to configure the KML data. | No inserts. |
| StyleInsert | Text containing <Style> and <StyleMap> element text, which will be inserted in the KML file. | No styles. |
| StyleFile | Similar to StyleInsert; however, the style information to be inserted is read from the specified file. |  |
| StyleUrl | Specifies the <StyleMap id=”myStyleMap”> or <Style id=”myStyle”> element to use for each placemark in the layer. For example, specify as #myStyleMap to match a style map included in the KML file with the StyleInsert or StyleFile parameter, where the URL matches the id attribute. | Default KML style. |

The following is an example of a style insert file (refer to KML reference documentation for explanation). The last style is for polygons.

<Style id="highlightPlacemark">

<IconStyle>

<Icon>

<href>http://maps.google.com/mapfiles/kml/paddle/red-stars.png</href>

</Icon>

</IconStyle>

</Style>

<Style id="normalPlacemark">

<IconStyle>

<Icon>

<href>http://maps.google.com/mapfiles/kml/paddle/wht-blank.png</href>

</Icon>

</IconStyle>

</Style>

<StyleMap id="exampleStyleMap">

<Pair>

<key>normal</key>

<styleUrl>#normalPlacemark</styleUrl>

</Pair>

<Pair>

<key>highlight</key>

<styleUrl>#highlightPlacemark</styleUrl>

</Pair>

</StyleMap>

<Style id="polygonFillStyle">

<PolyStyle>

<color>ff0000ff</color>

<outline>0</outline>

<fill>1</fill>

</PolyStyle>

</Style>

The following is an example of the resulting KML file:

<?xml version="1.0" encoding="UTF-8"?>

<kml xmlns="http://www.opengis.net/kml/2.2">

<Document>

<name>Test layer</name>

<description>Description for layer</description>

<Style> …. Omitted … see example above

</Style>

<StyleMap> … Omitted … see example above

</SyleMap>

<Placemark>

<name>ANTERO RSVR</name>

<description>Description: ANTERO RSVR</description>

<styleUrl>#exampleStyleMap</styleUrl>

<Point>

<coordinates>-105.89194,38.99333,0</coordinates>

</Point>

</Placemark>

<Placemark>

<name>BAILEY</name>

<description>Description: BAILEY</description>

<styleUrl>#exampleStyleMap</styleUrl>

<Point>

<coordinates>-105.47667,39.40472,0</coordinates>

</Point>

</Placemark>

</Document>

</kml>

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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