

# Command Reference: WriteTableToKml()

## Write a table to a KML file

Version 10.26.00, 2013-12-01

The `WriteTableToDelimitedFile()` command writes a table to a Keyhole Markup Language (KML) file (see: <https://developers.google.com/kml/documentation/topics/kml>). The table must include columns for longitude and latitude or a column containing Well Known Text (WKT) geometry strings. Currently only point data can be processed but in the future support for well-known text for various geometry types will be added.

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

Write a table to a KML format file, which can be used for map integration. Longitude, latitude, elevation, and other attributes are taken from table columns. The working directory is: C:\DevRiv\TSTool\_SourceBuild\TSTool\test\regression\commands\general\WriteTableToKml The output filename can be specified using \${Property} notation to utilize global properties.

Table ID: StationMeta Required - table to output.

KML file to write: Results/Test\_WriteTableToKml\_Point\_WKT\_out.kml Browse

General Point Data Geometry Data Marker Styles

General parameters specify information for main KML elements.

Name: Test layer Optional - layer name (default=table ID).

Description: Description for layer Optional - layer description (default=none).

Placemark name column: Name Optional - short name for map marker.

Placemark description column: Description Optional - longer description for map popup.

Command: oKml\_Point\_WKT\_out.kml",Name="Test layer",Description="Description for layer",PlacemarkNameColumn="Name",PlacemarkDescriptionColumn="Description",WKTGeometryColumn="WKTGeometry",StyleFile="Data/Precipitation-ACIS-KML-Style.xml",StyleUrl="#exampleStyleMap")

Add Working Directory Cancel OK

WriteTableToKml

WriteTableToKml() Command Editor for General Parameters

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

General | **Point Data** | Geometry Data | Marker Styles

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:  Required - column containing longitude, decimal degrees.

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

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

WriteTableToKml\_Point

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

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

General | Point Data | **Geometry Data** | Marker Styles

Geometry (shape) data can be specified using Well Known Text (WKT) strings in a table column.  
Currently only POINT geometry is 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.

WriteTableToKml\_Geometry

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

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

General | Point Data | Geometry Data | **Marker Styles**

Marker styles control how map layer features are symbolized (colors, etc.) and interact (mouse-over highlight, etc.).  
Marker style definitions can be defined by inserting XML text or specifying a file to insert.  
The URL to a style map is then specified for the layer (currently all features in the layer will have the same style).

Style insert:

Style file to insert:

StyleUrl:  Optional - style URL for marker (default=pushpin, etc.).

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 of 0 is assumed.
WKTGeometry Column	The name of the table column that contains Well Known Text (WKT) geometry strings.	
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> 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.	Default KML style.

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

```
<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>

```

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
</StyleMap>
  <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>

```