ArcGIS Resource Center

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Make XY Event Layer (Data Management)

Summary

Creates a new point feature layer based on x- and y-coordinates defined in a source table. If the source table contains z-coordinates (elevation values), that field can also be specified in the creation of the event layer. The layer created by this tool is temporary.

Learn more about adding x,y coordinate data to a map

Usage

- The output point feature layer created by this tool is temporary and will not persist after the session ends. You can export this event layer to a feature class on disk using the Copy Features, Feature to Point, or Feature Class to Feature Class tool.

- It is not possible to interactively move the output layer's points through editing controls, since event layers are not editable. Alternatives to directly moving these points are to change the x- and y-coordinate attributes in the input table, then re-create the event layer, or save the event layer to a feature class on disk, then perform edits on the feature class.

- The standard delimiter for tabular text files with extensions `.csv` or `.txt` is a comma, and for files with a `.tab` extension, a tab. To use an input table with a nonstandard delimiter, you must first specify the correct delimiter used in the table using a `schema.ini` file.
  Learn more about working with tabular text files

- If the input table does not have an ObjectID field, you will not be able to make selections or add joins to the resulting layer. Many delimited text files or tables from OLE DS connections do not have ObjectID fields.

Syntax

MakeXYEventLayer_management (table, in_x_field, in_y_field, out_layer, {spatial_reference}, {in_z_field})