زانکۆی پۆلیتەکنیکی هەولێر
ERBIL POLYTECHNIC UNIVERSITY

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Erbil Polytechnic University

وەزارەتی خوێندنی باڵا و توێژینەوەی زانستی

Display points in ArcMAP

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- X,Y coordinates are used to describe points on the earth's surface, such as the placement of fire hydrants in a city or the locations of water sampling stations. A GPS can readily capture x,y coordinate data (as well as an elevation [z]-value).

- To include an x,y coordinate table on your map, globe, or scene, the table must have two fields: one for the x-coordinate and one for the y-coordinate. Any coordinate system and unit, such as latitude and longitude or meters, can be represented by the values in the fields. A field for the z-coordinates, which allows for 3D geometry, is optional.

- The fields must be all numbers. When the coordinate value is recorded in degrees, minutes, and seconds (for example, -120 13 58), the coordinates are transformed and displayed as decimal degrees.

- When you add data to a map, globe, or scene, it becomes an x,y event layer and acts similarly to other point feature layers. For example, you can choose whether to show it, symbolize it, define the visible scale, or show a subset of characteristics that satisfy certain criteria.

Display points in ArcMAP

1. Add csv file to the map layer
2. Right click on the layer

   -> select Geocode addresses if MGRS

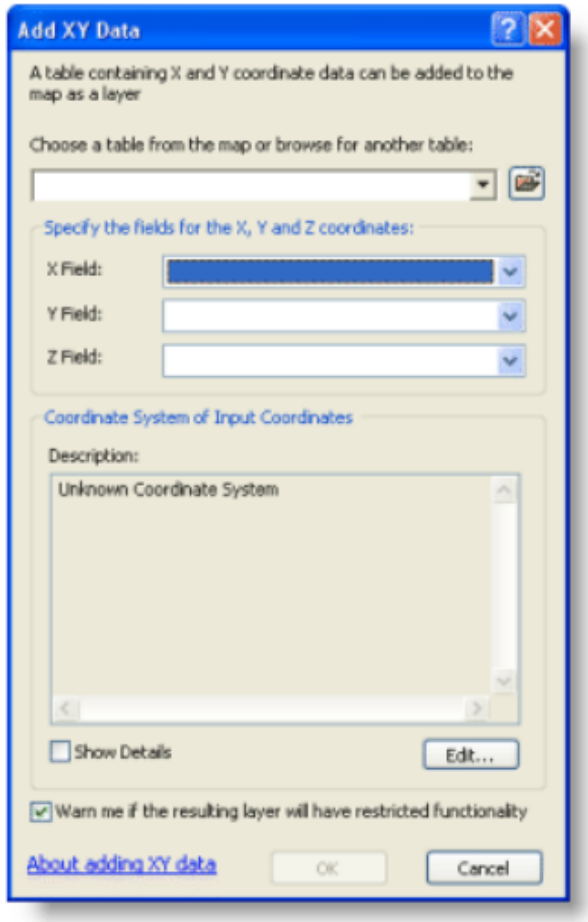
   -> display xy data if lat/long

1. Select ok then the new file geodatabase will be created
2. Save

Adding x,y coordinate data as a layer

Steps for adding x,y data as a layer

1. Click **File** > **Add Data** > **Add XY Data**.

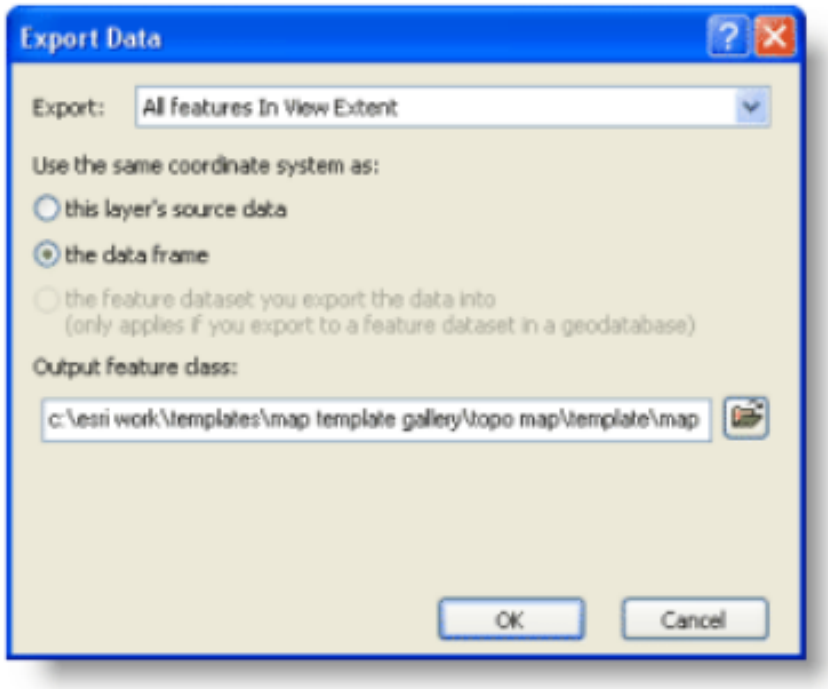


2. Select the table that contains x,y coordinate data.
3. Identify the columns that hold the x- and y-coordinates (and, optionally, the z-coordinate).
4. Specify the coordinate system.

Saving an x,y layer as a feature class

You can save the contents of an x,y layer as a feature class using the following steps:

1. Right-click the x,y layer name and click **Data** > **Export Data**. The **Export Data** dialog box opens.



2. Set the output coordinate system and specify the location and name of the new feature class.
3. Click **OK** to save the new feature class.