



Ungenerate

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Exports a feature class to ArcInfo generate format text file. The user can specify optionally to export the attributes. In this case the format of the result text file will be in an extended version of ArcInfo generate forma - described below

Inputs:

- A feature layer
 - Point, PointZ, PointM
 - Polyline, PolylineZ, PolylineM
 - Polygon, PolygonZ, PolygonM

Outputs:

- New text file

Notes:

- If the "Export attributes" option is selected the output text file might not be readable from the ArcInfo Generate command
- If the "Export bounding rectEnvelope Onlys only" is selected (available for Polyline and Polygon layers), the resulting text file will contain the coordinates of the extents for each shape.

File formats:

The shapes that have Z or M values will have an additional coordinate

Shape Type	Standard Format	Example	Extended Format	Example
Point	id,x,y	1,34.5,-14.3	ID,X,Y,FIELD,FIELD	ID,X,Y,Town,Population
PointZ	id,x,y	2,12.8,-19.6	id,x,y,value,value	1,34.5,-14.3,London,44
PointM	id,x,y	3,13.4,-25.6	id,x,y,value,value	2,12.8,-19.6,Paris,34
	END	END	id,x,y,value,value	3,13.4,-25.6,Madrid,56
			END	END
Polyline	id	1	ID,FIELD,FIELD	ID,Street,Streettype
PolylineZ	x,y	34.5,-14.3	id,value,value	1,Church,Street
PolylineM	x,y	12.8,-19.6	x,y	34.5,-14.3
	END	END	x,y	12.8,-19.6
	id	2	END	END
	x,y	13.4,-25.6	id,value,value	2,Second,Avenue
	x,y	16.4,-27.6	x,y	13.4,-25.6



	END	END	END END	END END
Polygon	id,xLabel,yLabel	1, 12.5,-18,6	ID,FIELD,FIELD	ID,X,Y, Dam,Volume
PolygonZ	x,y	34.5,-14.3	id,value,value	1,12.5,-18,6,Vaal,5346
PolygonM	x,y	12.8,-19.6	x,y	34.5,-14.3
	x,y	12.43,-19.88	x,y	12.8,-19.6
	END	END	x,y	12.43,-19.88
	id	2,14.3,24.5	END	END
	x,y	13.4,-25.6	id,value,value	2,14.3,24.5,Gariep,6578
	x,y	16.4,-27.6	x,y	13.4,-25.6
	x,y	13.8,-22.1	x,y	16.4,-27.6
	END	END	x,y	13.8,-22.1
	END	END	END	END
			END	END
Box	id,xmin,ymin,xmax,ymax	1,34.5,-14.3,34.8,-14.1	ID,XMIN,YMIN,XMAX,YMAX,FIELD	
	id,xmin,ymin,xmax,ymax	2,12.8,-19.6,12.9,-19.2	id,xmin,ymin,xmax,ymax,value	
	id,xmin,ymin,xmax,ymax	3,13.4,-25.6,13.6,-25.4	id,xmin,ymin,xmax,ymax,value	
	END	END	id,xmin,ymin,xmax,ymax,value	
			END	

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Parameters

Expression	Explanation
Function Name	Ungenerate
<input dataset>	A String representing the input layer. Must be of Polygon type.
<output file>	A String - the full name of the output text file.
<Delimiter<	A String indicating the delimiter to be used. Valid values: "Comma", "Tab", "Space"
{Delimiter Field}	A String representing the name of a field in the in the attribute table of the input dataset. The field has the values for the distance between the grid points.
{Export Attributes}	A Boolean indicating whether the attributes to be exported to the text file
{Envelope Only}	A Boolean indicating whether the envelope of the geometry to be exported instead of the entire geometry.
{Precision}	A Integer representing the number of digits after the decimal point to be used for storing coordinates.

Running the function

ETGWPath used in the table below is the full path to ETGWRun.exe (E.G. "C:\Program Files\ETSpatial Techniques\ETGeo Wizards\ETGWRun.exe")

Language	Syntax
Python	subprocess.call([ETGWPath, "Ungenerate", "input dataset", "output file", "Delimiter", "Export Attributes", "Envelope Only", "Precision"])



	"Envelope Only" "Precision"
.NET using ETGWOutX.dll	Ungenerate(input dataset, output file, Delimiter, Export Attributes, Envelope Only, "Precision")
ArcPy	arcpy.Ungenerate(input dataset, output file , "Delimiter", "Export Attributes", "Envelope Only", "Precision")

Notes:

- <> - required parameter
- {} - optional parameter
- See examples for [Python](#) , [.NET](#) or [ArcPy](#)
- The argument separator for StartInfo.Arguments is space. If a string might contain a space, you need to double quote it.

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