

Product Name

DWG to XYZ

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Description

It is an AutoLisp function to convert a DWG file to an XYZ file of points!

Loading in AutoCAD is done with the APPLOAD command and then selecting the "cdp.lsp" file.

Type then in AutoCAD or IntelliCAD: CDP

LINE, POLYLINE, POINT and BLOCK entities will be converted into an XYZ file of points with articles of the format

no. x y z code

"No." starts with 1 and increases from 1 to 1.

A TXT extension file will be created with the folder and the name of the DWG.

POLYLINE will be automatically exploded into LINES, and LINES will be joined according to their layer.

A list "lc" with articles of the form below will be defined in advance

('("road_axis" "AX")

The first field is a description, and the 2nd is the name of a layer.

Only LINES that have a layer from this list will be converted.

The layer is used to define the code of points generated from POLYLINES.

The generated point code consists of the layer name and a number.

The number starts with 1 and increases by 1 for each POLYLINE resulting from LINES in the same layer.

For example, if combining LINES from the "AX" layer results in several POLYLINES not joined at the ends, from the first POLYLINE there are generated points of code AX01, from the 2nd of code AX02 and so on.

The vertices of POLYLINES are converted into points.

POINT entities in DWG will be converted to points with the "L" code.

The program removes identical points, for example those POINT entities from POLYLINE vertices.

BLOCKS inserted in DWG will be converted into points with the name of the BLOCK as code.

The number of converted entities will be displayed at the end.

If the number of LINES processed is less than the total number of LINES, it means that there are LINES with a layer that does not appear in the "lc" list.

If the number of processed POINTs is less than the total number of POINTs, it means that there are pairs of identical points of which only one has been converted.

After execution, POLYLINES of color 7 will be drawn over the converted LINES, the converted POINT entities will be colored in color 7 and the BLOCK entities will be redrawn 'highlight'.

You can thus see what was not converted to the XYZ file of points.

Limitations

Does not exist.

Design Details

Settings in Visual Lisp (Tools, Window Attributes, Configure Current):

- Tab width 3
- Left margin 0

Logical View

It's not necessary.

Process View

Is not the case.

External Sources

Can be used in AutoCAD or programs based on IntelliCAD (such as BricsCAD, ProgeCAD, ActCAD, ZWCAD, etc.).

Deployment

Loading in AutoCAD is done with the APPLOAD command and then selecting the " cdp.lsp " file.

Server installation

Is not the case.