

Leapfrog Works File Types

For Leapfrog Works Version 3.1

Inputs

- Boreholes
- Design Models
- Meshes/Surfaces
- Points
- Polylines
- GIS Data
- 2D Grids
- Structural Data
- Maps
- Image
- Historical Sections
- Flow Models (with Hydrogeology Extension)

File Types (Imports)

Elevation Grids

- Arc/Info ASCII Grid Files (*.asc, *.txt)
- Arc/Info Binary Grid Files (*.adf)
- Digital Elevation Model Files (*.dem)
- Surfer ASCII or Binary Grid Files (*.grd)
- SRTM Files (*.hgt)
- ESRI.hdr Labelled Image Files (*.img, *.bil)
- GeoTIFF Image Files (*.tiff, *.tif)

GIS Vector Data

- Shape Files (*.shp)
- MapInfo Files (*.tab, *.mif)
- ESRI Personal GeoDatabase Files (*.mdb, *.accdb)
- MapInfo Batch File (*.xml)
- ESRI Geodatabase (*.gdb)

2D Grids

- Arc/Info ASCII Grid (*.asc, *.txt)
- Arco/Info Binary Grid (*.adf)
- Digital Elevation Model (*.dem)
- Intergraph ERDAS ER Mapper 2D Grid (*.ers)
- ESRI .hdr Labelled Image (*.img, *.bil)
- SRTM .hgt (*.hgt)
- Surfer ASCII or Binary Grid (*.grd)
- Grid eXchange File (*.gxf)
- Geosoft Grid (*.grd)

Borehole Data

- CSV Text File (*.csv)
- AGS Files (*.ags)
- ASCII Text File (*.asc)
- Plain Text Files (*.txt)
- Data Files (*.dat)
- TSV Text Files (*.tsv)

Files can be imported:

- From files stored locally
- Via ODBC (*.mdb, *.accdb)

Points

- CSV Files (*.csv)
- ASCII Text Files (*.asc)
- DXF Files (*.dxf)
- Leapfrog Works 3D Point Data files (*.pl3, *.ara)
- Via ODBC (*.mdb, *.accdb)

Maps/Photos/Cross Sections

- PNG Files (*.png)
- JPEG Files (*.jpg, *.jpeg)
- TIFF and GeoTIFF Files (*.tiff, *.tif)
- Windows Bitmap Files (*.bmp)
- Graphics Interchange Format Files (*.gif)

Designs

- DGN (*.dgn)
- DWG (*.dwg)
- DXF (*.dxf)

Meshes

- Leapfrog Works Attribute Binary Mesh Formats (*.msh, *.ara)
- DXF Polyface Files (11/12 [AC1009]) (*.dxf)
- Alias Wavefront Object Files (*.obj)
- Leapfrog Model Files (*.lfm)
- Bentley Drawing Files (v8) (*.dgn)
- AutoCAD Drawing Files (2013/LT2013) (*.dwg)

Polylines

- Drawing Interchange Polylines (*.dxf)
- Old Leapfrog Polylines (*.lfpl)
- Leapfrog Polylines (*.csv, *.txt)
- AutoCAD Drawing Files (2013/LT2013) (*.dwg)
- Bentley Drawing Files (v8) (*.dgn)

Flow Models

(with Hydrogeology Extension)

- MODFLOW Models (*.nam, *.mf, *.mfn)
- FEFLOW Models (*.fem, *.dac)

Colour Gradients

- Geosoft Colour Files (*.tbl)
- ERMapper Lookup Tables (*.lut)
- MapInfo Colour Files (*.clr)
- Leapfrog Colour Files (*.lfc)

Outputs

- 3D Surfaces and Volumes
- Planned Boreholes

- Borehole Tables
- Building Information Models (BIM)
- Cross Sections
- Images
- Movies
- 3D Scene Files
- Stereonets
- GIS Lines
- Points
- Polylines
- Flow Models (with Hydrogeology Extension)
- 3D Printed Models
- Publish Project to Central

File Types (Exports)

Elevation/Thickness Grids

- Arc/Info ASCII Grid Files (*.asc)
- ESRI .hdr Labelled Files (*.bil)
- ENVI Raster Image Files (*.img)
- Surfer ASCII Grid Files (*.grd)

GIS Vector Data

- Shape Files (*.shp)

Maps and Photos

- Geo Tiff Files (*.tif, *.tiff)

Borehole Data

- CSV Files (*.csv)
- IFC Files (v4) (*.ifc)

Points

- CSV Files (*.csv)
- DXF Files (11/12 [AC1009]) (*.dxf)

- Drawing Files (2013/LT2013) (*.dwg)
- Bentley Drawing Files (v8) (*.dgn)

Polylines

- Leapfrog Polylines (*.lfpl)
- Leapfrog Polylines (*.csv)
- Drawing Interchange Polylines (*.dxf)
- Drawing File (2013/LT2013) (*.dwg)
- Bentley Drawing Files (v8) (*.dgn)

Saved Scenes (Viewer)

- Leapfrog Scene (*.lfview)

Movies

- Movie Files (*.wmv)

Rendered Images

- Image Files (*.png, *.jpg, *.jpeg)

Meshes (Model Surfaces/Output Volumes/Form Interpolant Surfaces)

- Leapfrog Files (*.msh)
- DXF Files (*.dxf)
- Alias Wavefront Object Files (*.obj)
- Drawing Files (2013/LT2013) (*.dwg)
- Bentley Drawing Files (v8) (*.dgn)

Batch Exporting Meshes, Model Surfaces, Model Volumes

- Leapfrog Model Files (*.lfm)
- Industry Foundation Classes Format 4 (*.ifc)
- Leapfrog Files (*.msh)
- DXF Files (*.dxf)
- Alias Wavefront Object Files (*.obj)
- Drawing Files (2013/LT2013) (*.dwg)
- Bentley Drawing Files (v8) (*.dgn)

Design Models

- Leapfrog Files (*.msh)
- DXF Files (11/12 [AC1009]) (*.dxf)
- DXF Polyface Files (11/12 [AC1009]) (*.dxf)
- Alias Wavefront Object Files (*.obj)
- AutoCAD Drawing Files (2013/LT2013) (*.dwg)
- Bentley Drawing Files (v8) (*.dgn)

Cross Section Layouts

- PDF Files (*.pdf)
- Scalable Vector Graphics Files (*.svg)
- PNG Image Files (*.png)
- GeoTIFF Files (*.tiff, *.tif)

Cross Section Evaluations

- DXF Files (*.dxf)
- DWG Files (*.dwg)
- Bentley Drawing Files (v8) (*.dgn)

Flow Models

(with Hydrogeology Extension)

- MODFLOW Models (*.nam)
- FEFLOW Models (*.fem)