

THREEVIEW for Windows (version 1.2)

THREEVIEW IS FREeware

Threeview is an interactive viewer for three dimensional vector objects conforming to the ASCII text OFF (object file format) standard. OFF was standardized by DIGITAL EQUIPMENT CORPORATION. OFF files can be found on the net, as well as created by yourself, or converted from other vector formats. Information concerning the technicalities of creating your own off files appears later in this document.

Changes since 1.0:

- Added Fixed Light Shading Mode*
- Added Detection of Corrupted Input Files*
- Improved User Interface to avoid Successive Mouse Clicking.*

Many of the objects included with geomview were obtained from the Geometry Center at ftp.geom.umn.edu. The center has written an excellent and inspiring 3D viewer for the X-Windows environment called Geomview. Geomview dwarfs this one in every manner currently, and is worth seeing if you run on X.

Threeview is not to be sold, and it is to be used at your own risk. Development donations for this and other programs are welcome, as are proposals for windows-based applications.

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OFF FILE FORMAT (SIMPLIFIED)

OFF #Header Keyword
 Nvertices Nfaces Nedges #All integers
 x[0] y[0] z[0] #Vertices; possibly with colors
 .
 .
 .
 (up to)
 x[Nvertices-1] y[Nvertices-1] z[Nvertices-1]
 followed by a corresponding list of face vertex indexes in the form:
 Nv V(1) V(2) r g b #Number of vertices followed by
 integer indexes to prior vertex list,
 optionally followed by R G B values
 all before the carriage return.

TO DO LIST

- *Include support for binary, split ASCII, and 4-D off files.*
- *Include solid shaded mode to give lighted effect to objects*
- *Include features to merge, edit, and re save transformed objects.*
- *Add the ability to load AUTOCAD DXF format files.*