

NAME

stl2pov -- Converts an STL file into a POV-ray mesh or mesh2.

SYNOPSIS

stl2pov [-2] infile [*outfile*]

DESCRIPTION

This manual page documents '\$Revision: 3.1 \$' of the **stl2pov** program.

EXIT STATUS

The **stl2pov** utility exits 0 on success, and >0 if an error occurs.

DIAGNOSTICS

There are some errors which the program cannot ignore, and which will terminate the program.

The file '...' cannot be read or parsed. Exiting.

If a given input file cannot be read, or if the file is not recognized as an STL file, this error is produced, and the program is terminated with exit code 1.

Cannot write output file '...'.

An output file name was given on the command line, but the file in question could not be opened for writing or written to. The program is terminated with exit code 2.

COMPATIBILITY

The **stl2pov** program requires the Python interpreter. It was written for version 2.7, but should be able to work with 3.x after fixing with 2to3.

SEE ALSO

python(1), 2to3.

Python Programming Language - Official Website, <http://www.python.org/>.

HISTORY

The origin of this software was found in the desire of the author to render 3D CAD models using the POV-ray raytracer. The first effort produced the stl2pov(1) program, written in C.

Later the author converted that program to Python as a learning experience. This resulted in a more reusable version of the software to parse STL files as a Python module.

AUTHOR

This manual and the **stl2pov** software were written by Roland Smith <rsmith@xs4all.nl>.

The latest version of this program is available at: <http://rsmith.home.xs4all.nl/software/>

LICENSE

To the extent possible under law, Roland Smith has waived all copyright and related or neighboring rights to this manual. This work is published from the Netherlands. See <http://creativecommons.org/publicdomain/zero/1.0/>

The **stl2pov** program itself is released under the two-clause BSD license given below;

Copyright (C) 2012 R.F. Smith <rsmith@xs4all.nl>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY AUTHOR AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.