Subject: Problems w/upload Overlapping Triangles
Posted by jvalal on Sat, 20 Feb 2010 06:22:30 GMT
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Hello,

I'm having problems uploading my files. There seem to be overlapping triangles. Can someone help? And if so guide me in how to troubleshoot in the future?

thanks in advance

Subject: Re: Problems w/upload Overlapping Triangles
Posted by iguffick on Sun, 21 Feb 2010 14:33:43 GMT
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You might get a better response it you give a little more detail.

What program are you using for modelling?

Can you post a file for us to look at?

Subject: Re: Problems w/upload Overlapping Triangles
Posted by jvalal on Sun, 21 Feb 2010 17:55:22 GMT
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1. I'm not 100% sure of the problem. All I know is that there are 14 overlapping triangles. What other information is needed?

2. The ID I'm using is using Solidworks

3. I don't feel comfortable posting a proprietary file. I'm more than happy to share it privately, but this is a protected piece of work.

Subject: Re: Problems w/upload Overlapping Triangles
Posted by aoster on Sun, 21 Feb 2010 19:06:30 GMT
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Hi jvalal,
in general, Shapeways should not have problems accepting overlapping triangles. There is probably some other issue occuring. Please proceed the following way:

- Download netfabb Studio Basic from http://www.netfabb.com/download.php .

- Load your STL file. Select it by clicking onto it (it will become green)

- Click on the red cross, as seen in the picture

- Take a look at the statistics (probably click on "Update before"). It could look like:

- Trying auto-repair and other functionality should bring your model down to statistics like

- After repairing, click on "Apply Repair", and export the STL via the context menu in the tree:

- And now comes the last and the most crucial step. The STL format has some disadvantages in saving some model situations that occur quite often. Even if your file is 100% correct, saving it as STL will recreate some errors. If that could happen, then there opens a dialog which alters the mesh slightly to prevent this. Just click onto "repair" as long as the statistics show

- A final click on "export" will guide you through it.

I have created dozens of STL-files for an upload to Shapeways and not even one has been rejected from their tool-chain.

If you need some more tricks how to get your model fixed, just ask. Or post some screenshots of your mesh statistics

Bye,
Alex

Subject: Re: Problems w/upload Overlapping Triangles
Posted by jvalal on Sun, 21 Feb 2010 20:09:55 GMT
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Thanks, That worked great!!

SOLVED

Subject: Re: Problems w/upload Overlapping Triangles
Posted by dymihail on Thu, 04 Mar 2010 04:08:09 GMT
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Interesting. What does it mean when you get a section highlighted in red? (which doesn't happen for me until *after* I try repairing it)

Subject: Re: Problems w/upload Overlapping Triangles
Posted by aoster on Thu, 04 Mar 2010 10:51:42 GMT
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Red sections are "inverted". Just select the whole shell and Invert the normals.