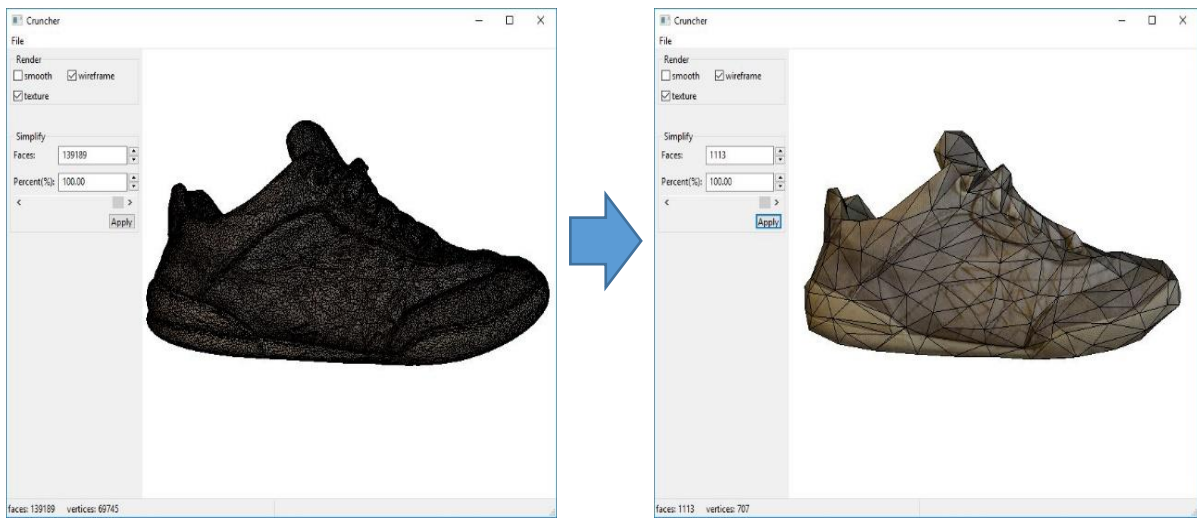


Simplify Polygon Tool- GUI

Version 1.0



User Manual

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1. Overview

Simplify Polygon Tool simplifies the mesh in the given .obj file. This tool is easy to use and the GUI is clean and easy to understand. The only parameter needed is either the target number of remaining triangles or percentage to retain. The user does not need to set any trade-off between texture and geometry fidelity. The simplified model is guaranteed to be seamless free automatically.

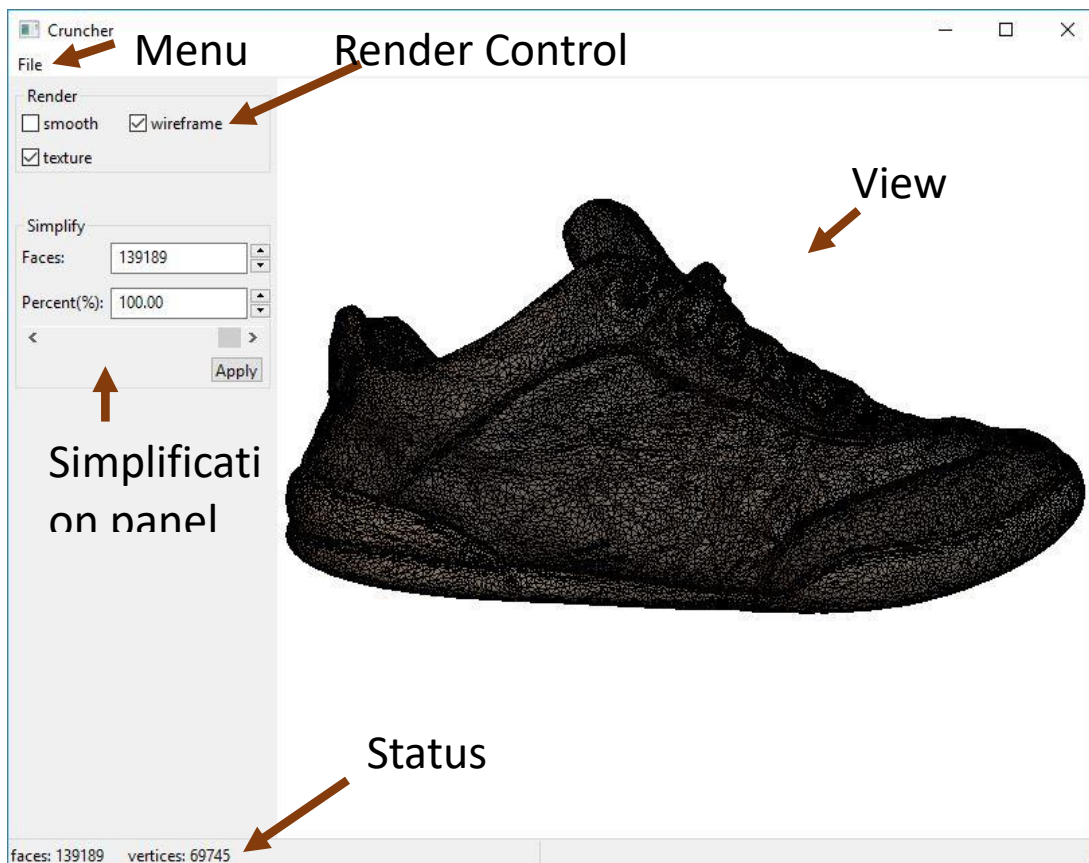
2. Steps

Simplify Polygon Tool provides a simple GUI to load, save and view 3D model. The user just need follow four steps:

1. Load the model.
2. Set the target number of remaining triangles (Faces) / percentage to retain.
3. Fire the simplification by clicking “Apply” button.
4. Save the model.

3. Usage

The GUI is composed of five parts: Menu bar, Render control panel, Simplification panel, View area and Status bar.



Menu bar

Open

Click to open a file dialog to choose the obj file.

Save

Click to open a file dialog to save the model to obj file.

Reset

Click to reset the model to the original shape for different simplification.

Render Control panel

Smooth

Whether the model is shaded smooth or flat.

Wireframe

Check to draw the wireframe overlay.

Texture

Check to render the model with texture.

Simplification Panel

Faces

Specify the target number of remaining triangles.

Percent

Specify the target ratio of remaining triangles.

Slider

Specify the target number of remaining triangles.

Apply

Start the simplification

Viewer area

The area showing the model. The user can use mouse to navigate different views:

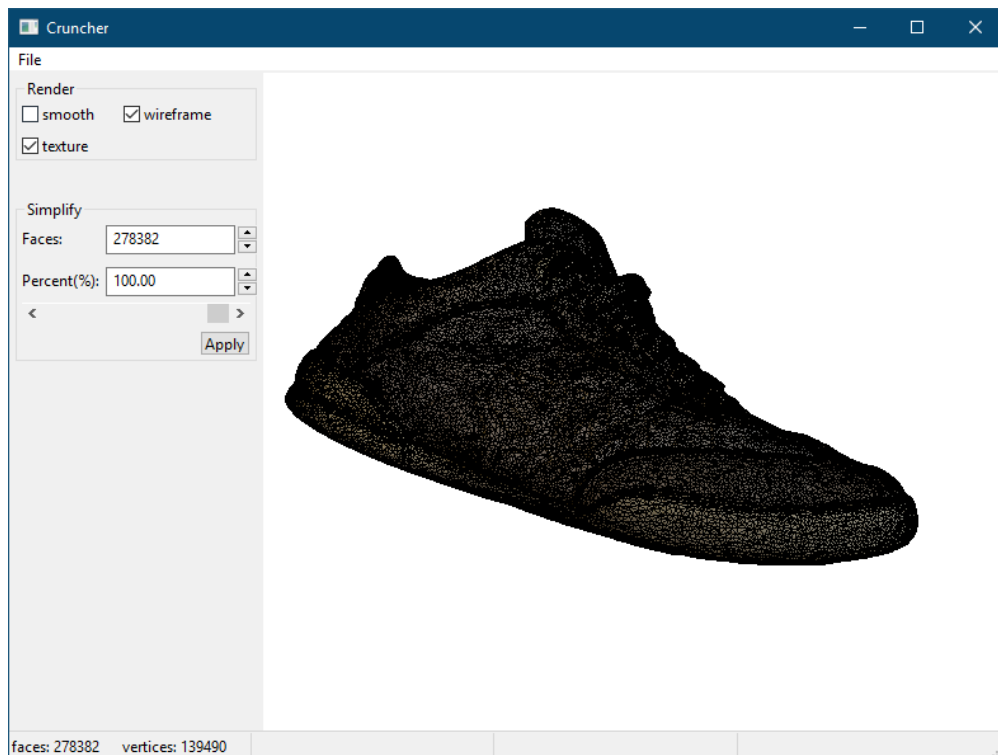
Rotate:	Left Mouse
Pan:	Right Mouse Button
Zoom:	Mouse Wheel

Status bar

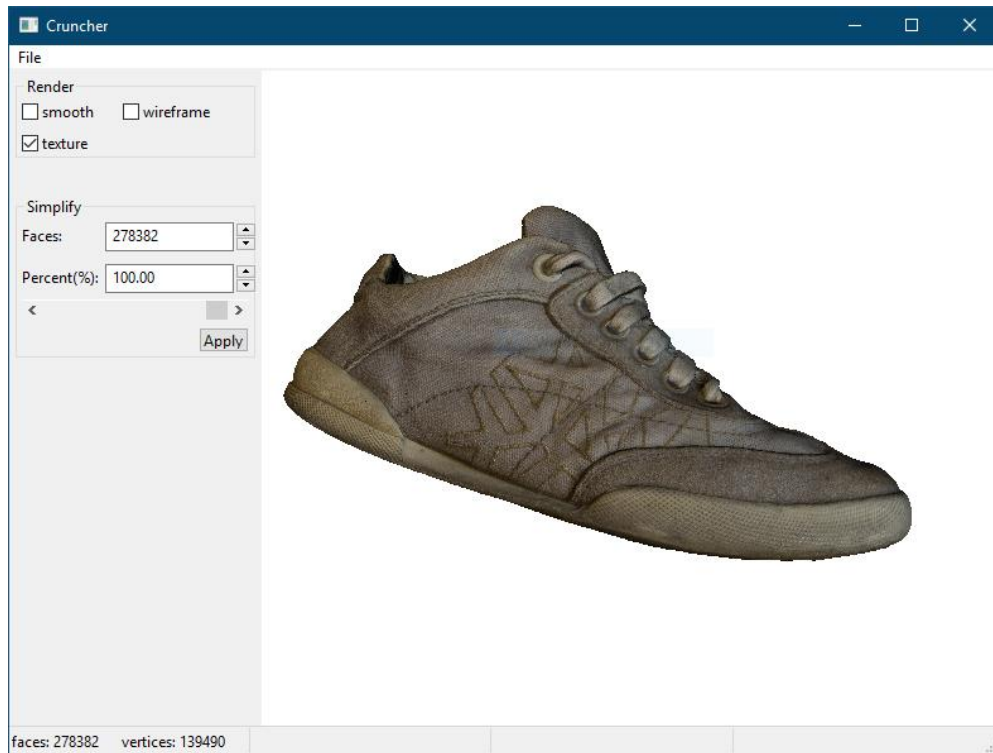
Showing the statistics of the mesh: number of vertices and number of triangles.

4. Screenshots

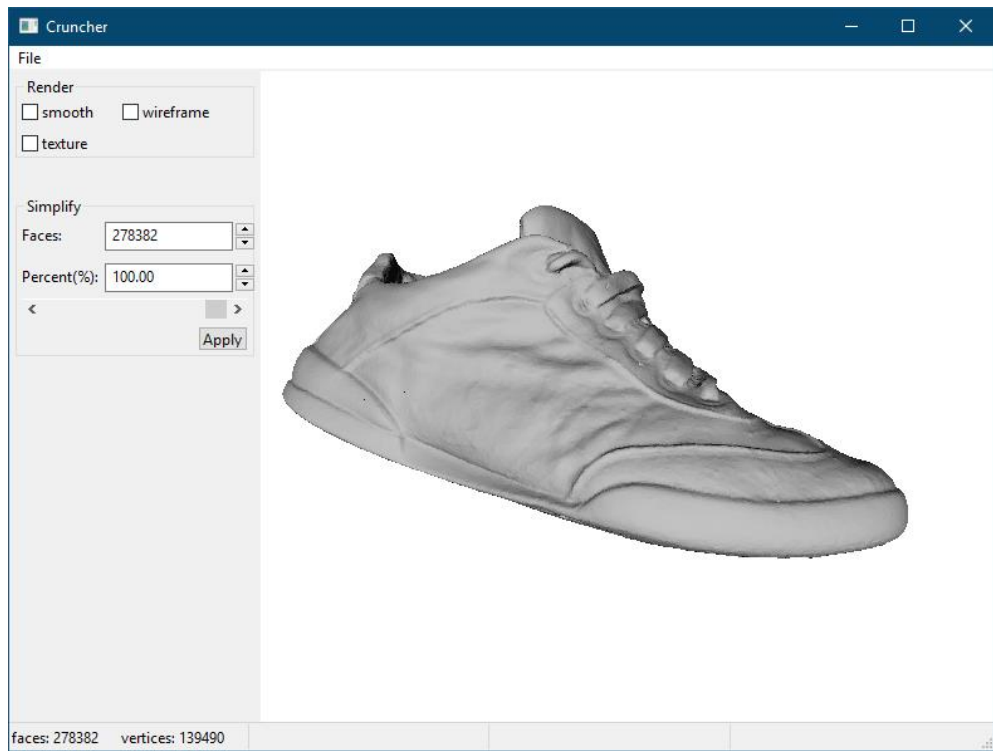
1. Wireframe



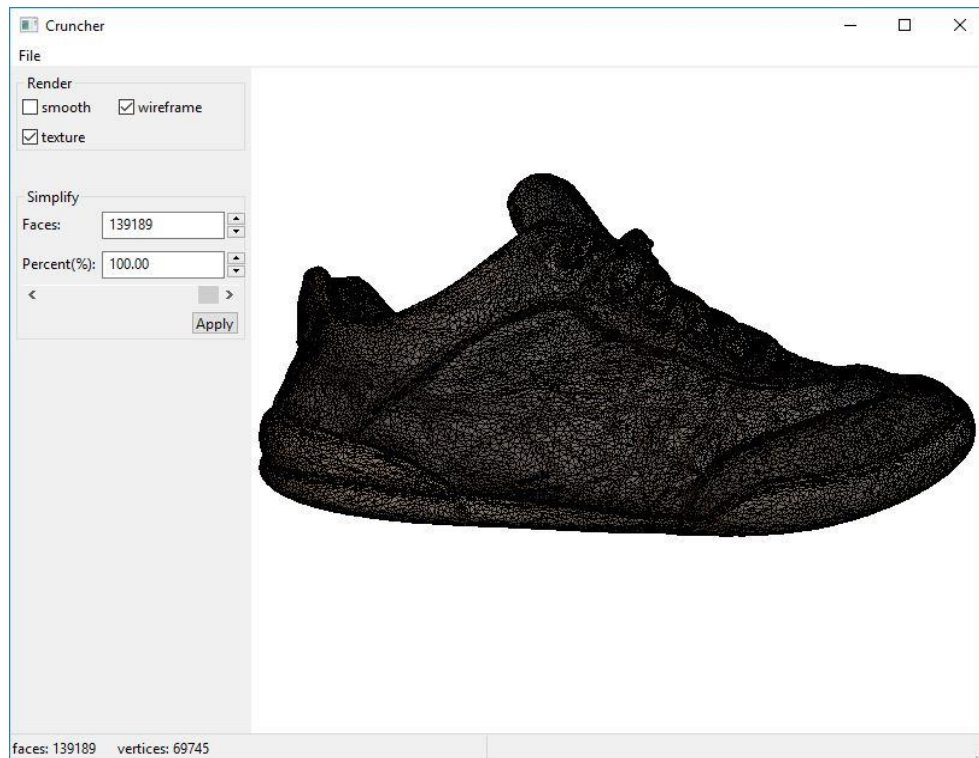
2. With Texture



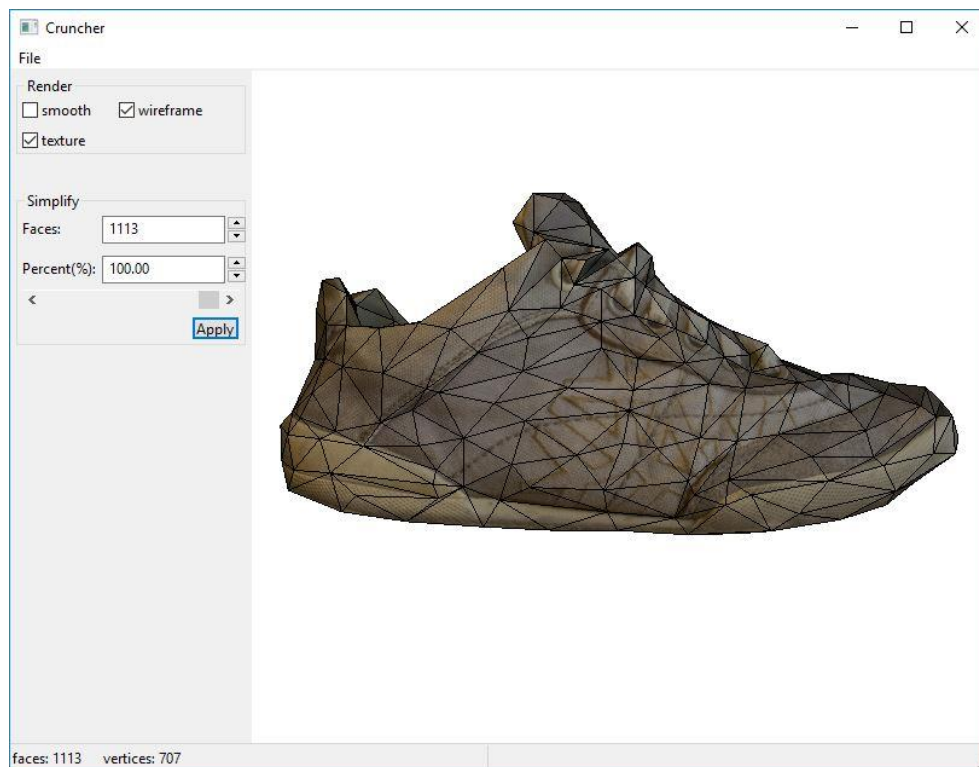
3. Without Texture



4. Sample Input Mesh



5. Sample Output Mesh



5. Support

Website: <https://www.codefarm.sg>

Email: contact@codefarm.sg