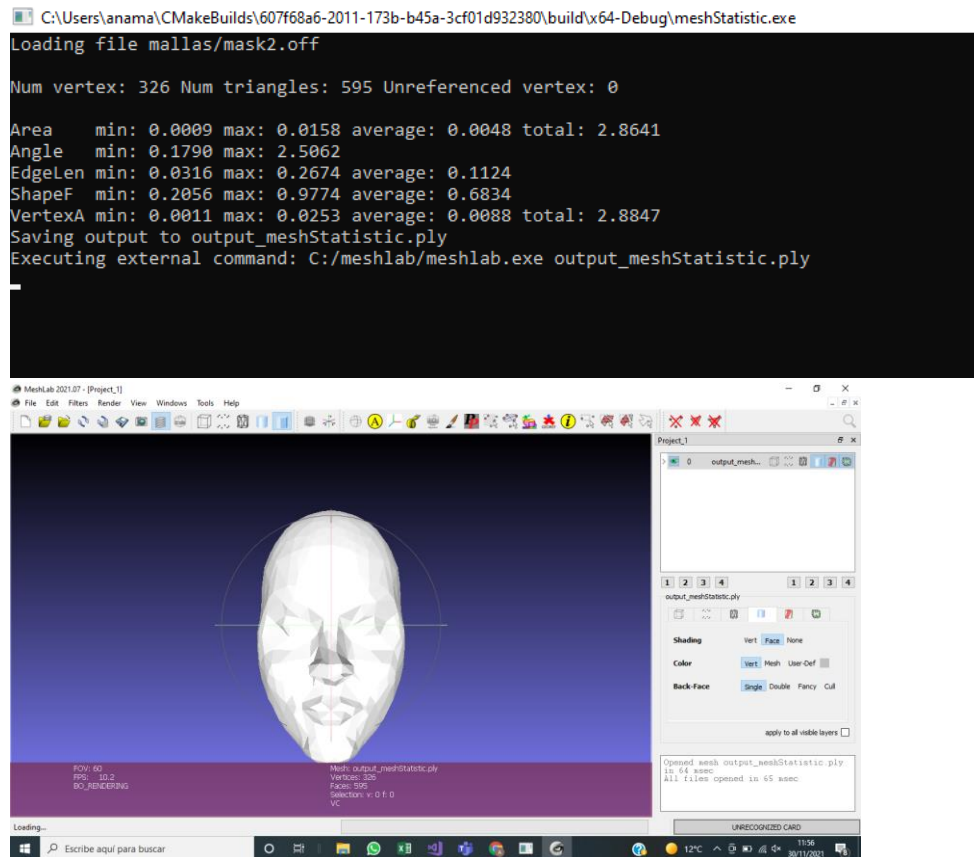


Memoria práctica mallas

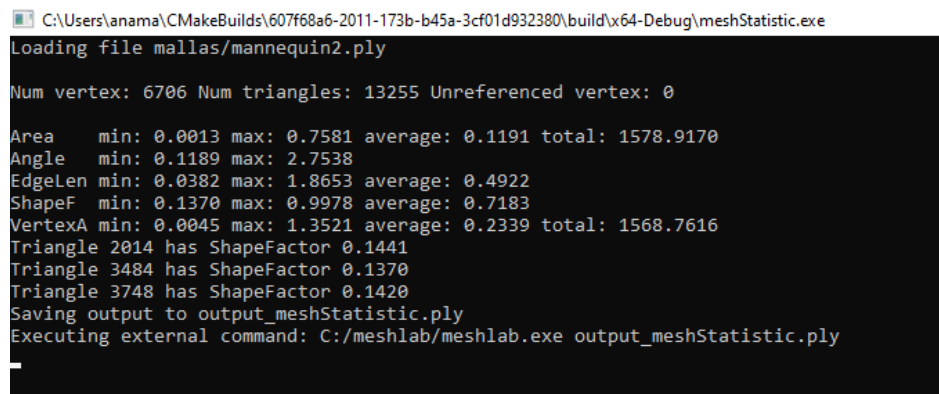
Esta memoria contiene las salidas por pantalla y el resultado para las mallas solicitadas en el enunciado (mask2 para los ejercicios 1, 2 y 3 y mannequin2 para los ejercicios 1 y 2), y algunas más. Se ha compilado en modo Debug x64.

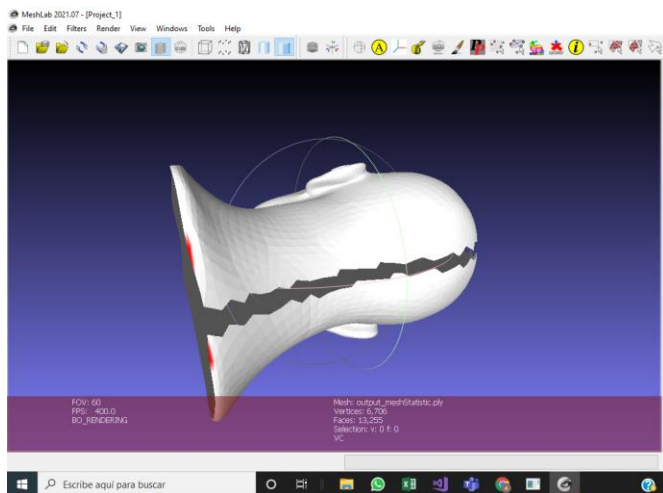
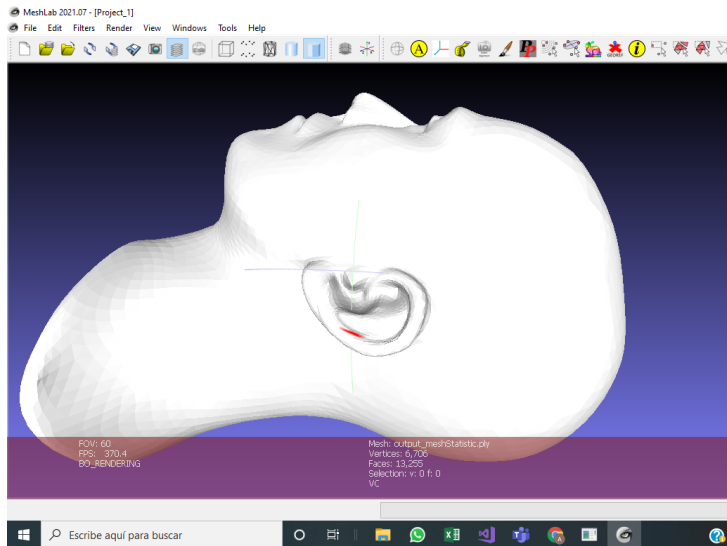
Ejercicio 1.

Salida mask2:

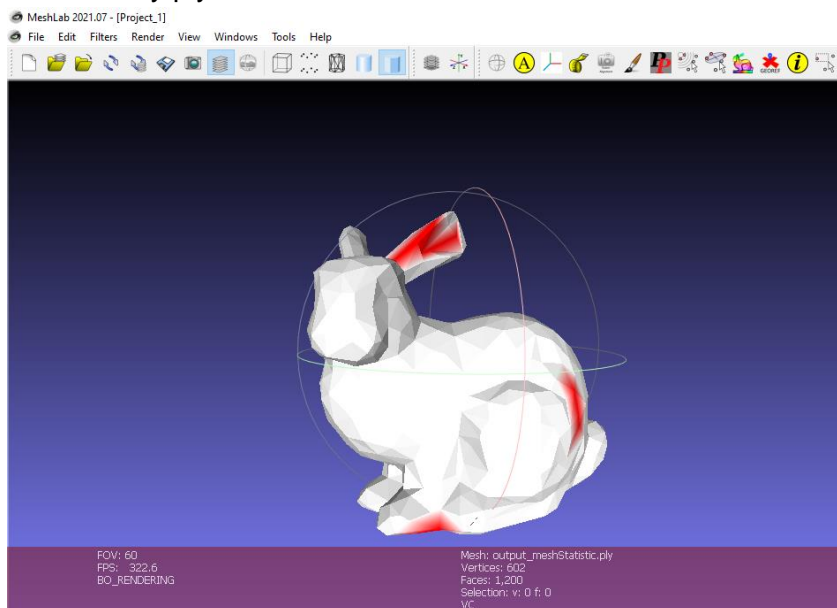


Salida mannequin2:





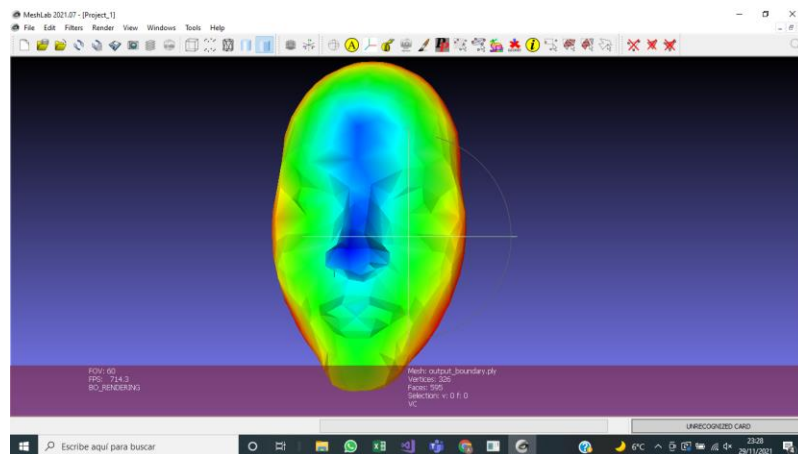
Malla bunny.ply:



Ejercicio 2:

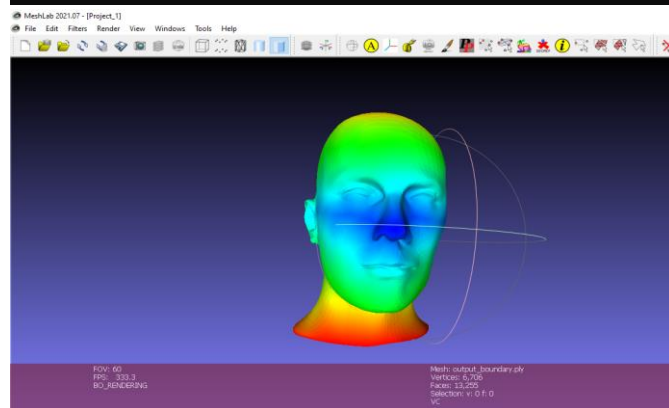
Salida mask2:

```
C:\Users\anama\CMakeBuilds\607f68a6-2011-173b-b45a-3cf01d932380\build\x64-Debug\meshBoundary.exe
Loading file mallas/mask2.ply
Num vertex: 326 Num triangles: 595 Unreferenced vertex: 0
Done updateEdgeLists() 0.0008245 seconds
55 boundary edges
865 internal edges
Edges in the boundary:
[318->320] [320->319] [319->192] [192->205] [205->269] [269->189] [189->204] [204->187] [187->263] [263->203] [203->266] [266->265] [265->198] [198->39] [39->104] [104->36] [36->105] [105->27] [27->43] [43->30] [30->44] [44->42] [42->45] [45->152] [152->154] [154->144] [144->143] [143->145] [145->123] [123->151] [151->150] [150->165] [165->114] [114->115] [115->21] [21->20] [20->13] [13->17] [17->16] [16->14] [14->173] [173->175] [175->172] [172->178] [178->179] [179->276] [276->275] [275->196] [196->313] [313->316] [316->315] [315->314] [314->301] [301->317] [317->318]
Boundary length: 5.19081
Euler Characteristic: 1
Done boundDist() 0.0189235 seconds
maxDistance to boundary: 0.866628 at vertex: 99
Saving output to output_boundary.ply
Done colorize by distance to boundary 0.0236762 seconds
Executing external command: C:/meshlab/meshlab.exe output_boundary.ply
```



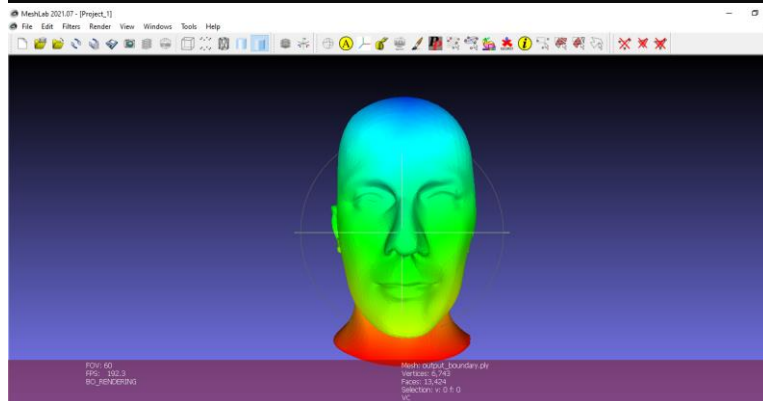
Salida mannequin2:

```
C:\Users\anama\CMakeBuilds\607f68a6-2011-173b-b45a-3cf01d932380\build\x64-Debug\meshBoundary.exe
Loading file mallas/mannequin2.ply
Num vertex: 6706 Num triangles: 13255 Unreferenced vertex: 0
Done updateEdgeLists() 0.0271987 seconds
155 boundary edges
19085 internal edges
Edges in the boundary:
[3440->3437] [3437->3434] [3434->3432] [3432->5667] [5667->5669] [5669->5672] [5672->4310] [4310->4311] [4311->4313] [4313->4318] [4318->4316] [4316->5936] [5936->5933] [5933->5930] [5930->5928] [5928->6704] [6704->6702] [6702->6700] [6700->4838] [4838->4905] [4905->4906] [4906->4908] [4908->3937] [3937->3949] [3949->3946] [3946->3943] [3943->3941] [3941->5614] [5614->5611] [5611->5608] [5608->3684] [3684->5197] [5197->5198] [5198->5200] [5200->2941] [2941->2942] [2942->2937] [2937->2935] [2935->246] [2461->2462] [2462->2464] [2464->2467] [2467->2359] [2359->2360] [2360->2362] [2362->2365] [2365->2203] [2203->5941] [5941->6029] [6029->6027] [6027->1079] [1079->1078] [1078->616] [616->617] [617->611] [611->609] [609->585] [585->5496] [5496->5497] [5497->5499] [5499->233] [233->69] [69->70] [70->68] [68->42] [42->41] [41->45] [45->43] [43->46] [46->12] [12->14] [14->21] [21->22] [22->40] [40->131] [131->134] [134->132] [132->5948] [5948->176] [176->183] [183->179] [179->313] [313->312] [312->5796] [5796->750] [750->752] [752->749] [749->747] [747->5245] [5245->5600] [5600->5598] [5598->1503] [1503->1511] [1511->1507] [1507->1505] [1505->1506] [1506->1502] [1502->1500] [1500->1501] [1501->5247] [5247->5248] [5248->5246] [5246->743] [743->744] [744->5797] [5797->386] [386->384] [384->177] [177->178] [178->175] [175->174] [174->36] [36->37] [37->39] [39->35] [35->18] [18->19] [19->13] [13->6343] [6343->7] [7->8] [8->411] [411->40] [40->9] [9->74] [74->5336] [5336->5337] [5337->143] [143->142] [142->144] [144->6174] [6174->583] [583->588] [588->586] [586->653] [653->612] [612->610] [610->618] [618->5939] [5939->5940] [5940->5942] [5942->2200] [2200->2205] [2205->2204] [2204->2208] [2208->2206] [2206->2386] [2386->2387] [2387->2391] [2391->2389] [2389->2693] [2693->2691] [2691->2689] [2689->2545] [2545->3440]
Boundary length: 138.406
Euler Characteristic: 1
Done boundDist() 0.1321 seconds
maxDistance to boundary: 20.4994 at vertex: 5187
Saving output to output_boundary.ply
Done colorize by distance to boundary 0.144 seconds
Executing external command: C:/meshlab/meshlab.exe output_boundary.ply
```

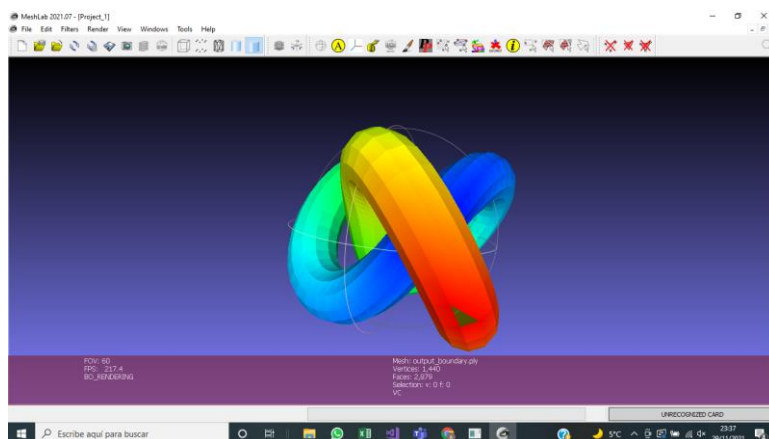


Salida mannequin:

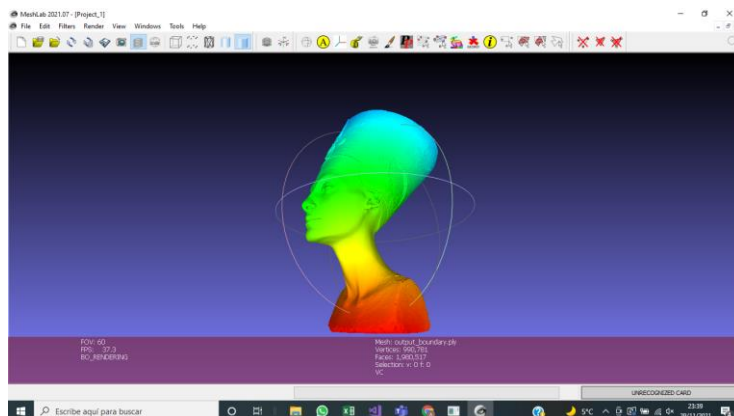
```
C:\Users\anama\CMakeBuilds\60768a6-2011-173b-b45a-3cf01d932380\build\x64-Debug\meshBoundary.exe
Loading file mailas/mannequin.ply
Num vertex: 6743 Num triangles: 13424 Unreferenced vertex: 0
Done updateEdgeLists() 0.0199153 seconds
60 boundary edges
20106 internal edges
Edges in the boundary:
[3470->3467] [3467->3464] [3464->3462] [3462->5700] [5700->5702] [5702->5705] [5705->4340] [4340->4341] [4341->4343] [4343->4348] [4348->4346] [4346->5070] [5070->5967]
[5967->5964] [5964->5962] [5962->6741] [6741->6739] [6739->6737] [6737->4868] [4868->4935] [4935->4936] [4936->4938] [4938->3967] [3967->3970] [3970->3976] [3976->3973]
[3973->3971] [3971->5647] [5647->5644] [5644->5641] [5641->3714] [3714->5227] [5227->5228] [5228->5230] [5230->2971] [2971->2972] [2972->2967] [2967->2965] [2965->249
1] [2491->2492] [2492->2494] [2494->2497] [2497->2389] [2389->2390] [2390->2392] [2392->2395] [2395->2231] [2231->2232] [2232->2234] [2234->2238] [2238->2236] [2236->24
16] [2416->2417] [2417->2421] [2421->2419] [2419->2723] [2723->2721] [2721->2719] [2719->2575] [2575->3470]
Boundary length: 48.9319
Euler Characteristic: 1
Done boundDist() 0.0878173 seconds
maxDistance to boundary: 35.1731 at vertex: 1534
Saving output to output_boundary.ply
Done colorize by distance to boundary 0.1157 seconds
Executing external command: C:\meshlab\meshlab.exe output_boundary.ply
```



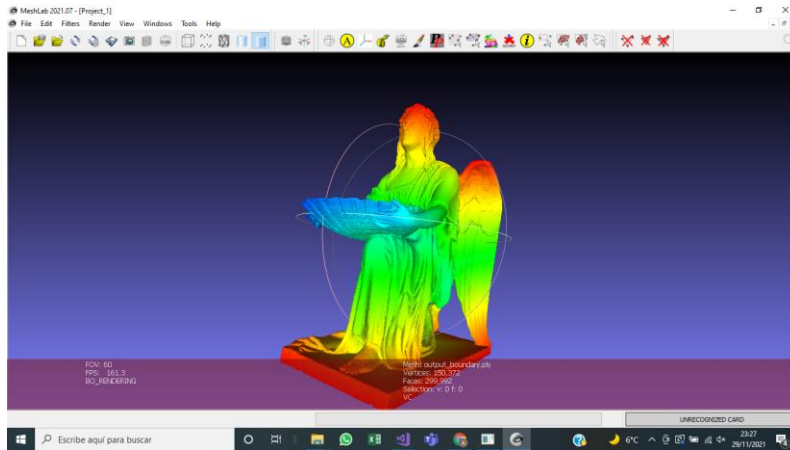
Malla knot-hole:



Malla Nefertiti.990kv:

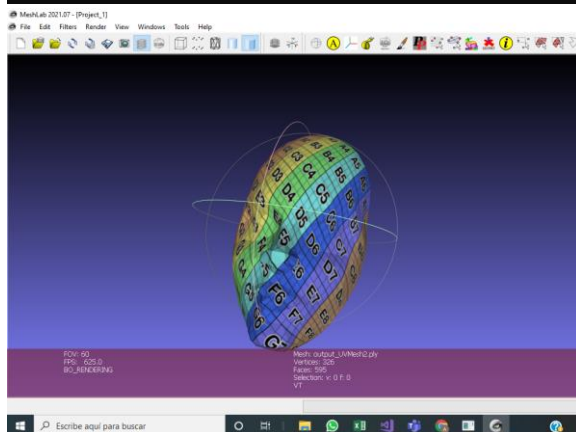


Malla angel_kneeling:

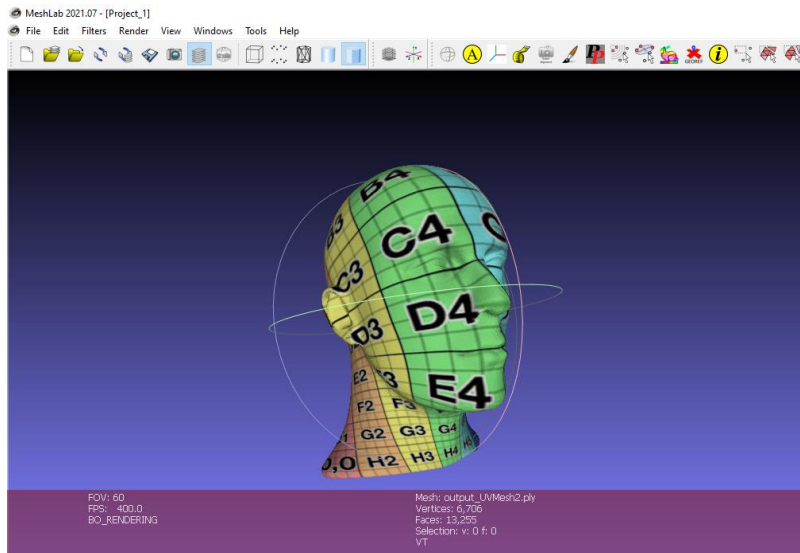


Ejercicio 3: Salida mask2:

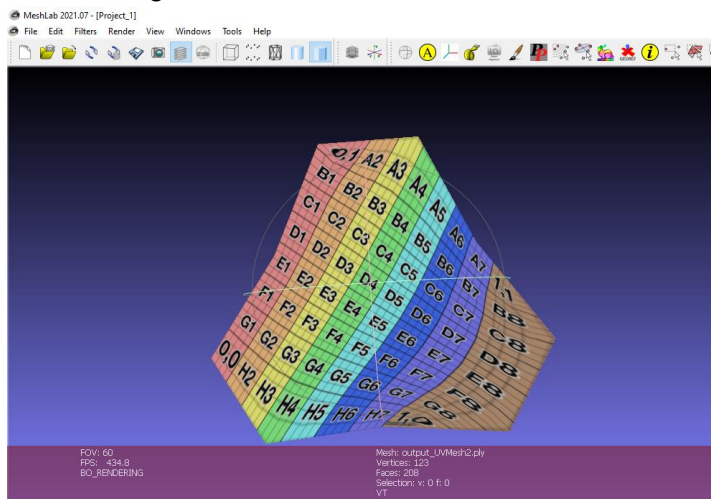
```
C:\Users\lanama\CMakeBuilds\60768a6-2011-173b-b45a-3cf01d932380\build\x64-Debug\meshTexture-Dense.exe
Loading file mailas/mask2.ply
Num vertex: 326 Num triangles: 595 Unreferenced vertex: 0
55 vertex in external boundary:
[318->320] [320->319] [319->192] [192->205] [205->269] [269->189] [189->204] [204->187] [187->263] [263->203] [203->266] [266->265] [265->198] [198->39] [39->104] [104->36] [36->105] [105->27] [27->43] [43->30] [30->44] [44->42] [42->45] [45->152] [152->154] [154->144] [144->143] [143->145] [145->123] [123->151] [151->150] [150->165] [165->114] [114->115] [115->21] [21->20] [20->13] [13->17] [17->16] [16->14] [14->173] [173->175] [175->172] [172->178] [178->179] [179->276] [276->275] [275->196] [196->312] [312->316] [316->315] [315->314] [314->301] [301->317] [317->318]
Done compute Boundary. 0.01662 seconds
Computing Laplacian matrix (dense):
Done Laplacian matrix (dense). 0.0189608 seconds
Computing System matrix:
Done System matrix. 0.0222737 seconds
Computing contour conditions:
Done contour conditions. 0.022959 seconds
Solving the system using Eigen (dense):
Done solving the system. 0.198721 seconds
Saving parameterization mesh to output_UVMesh1.ply
Saving texture mesh to output_UVMesh2.ply
Executing external command: C:/meshlab/meshlab.exe output_UVMesh2.ply
```



Malla mannequin2



Malla hexagon2:



Malla Lion:

