

Checkpoint 1.

$[\cos(\pi/4), 0, \sin(\pi/4)$   
 $\frac{1}{2}, \cos(\pi/4), -1/2$   
 $-1/2, \sin(\pi/4), \frac{1}{2}]$

Checkpoint 2.

$[\cos(\pi/4), \frac{1}{2}, \frac{1}{2},$   
 $0, \cos(\pi/4), -\sin(\pi/4)$   
 $-\sin(\pi/4), \frac{1}{2}, \frac{1}{2}]$

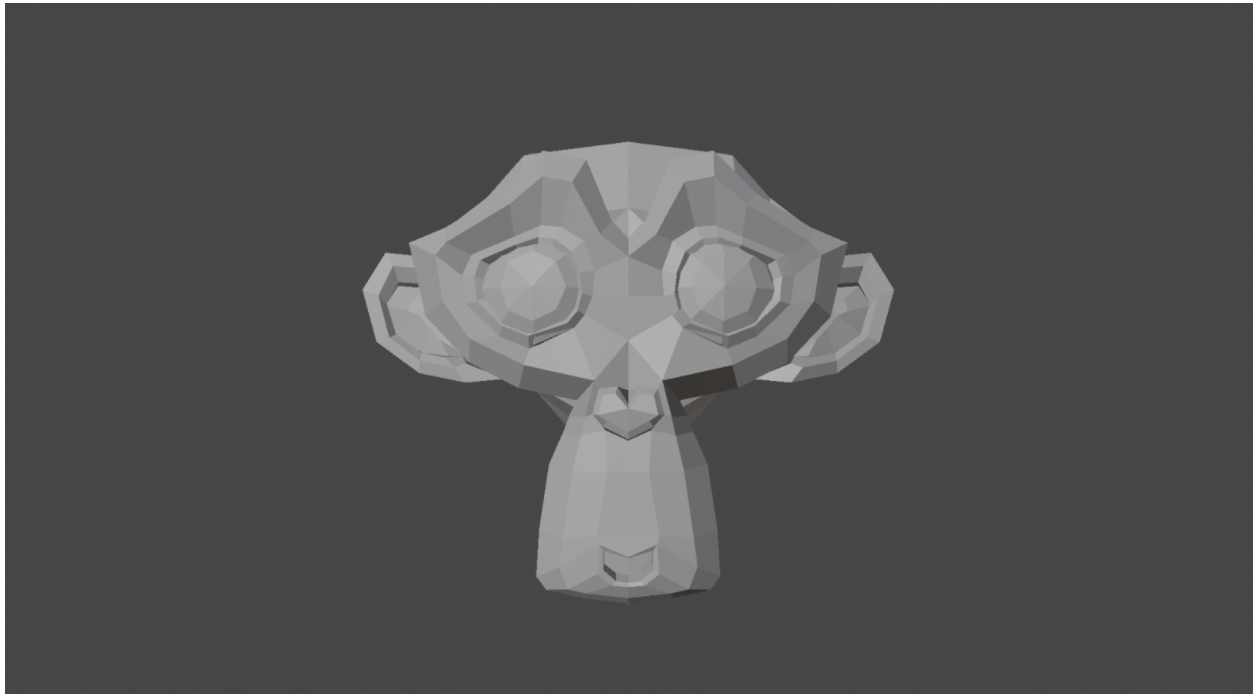
Checkpoint 3.

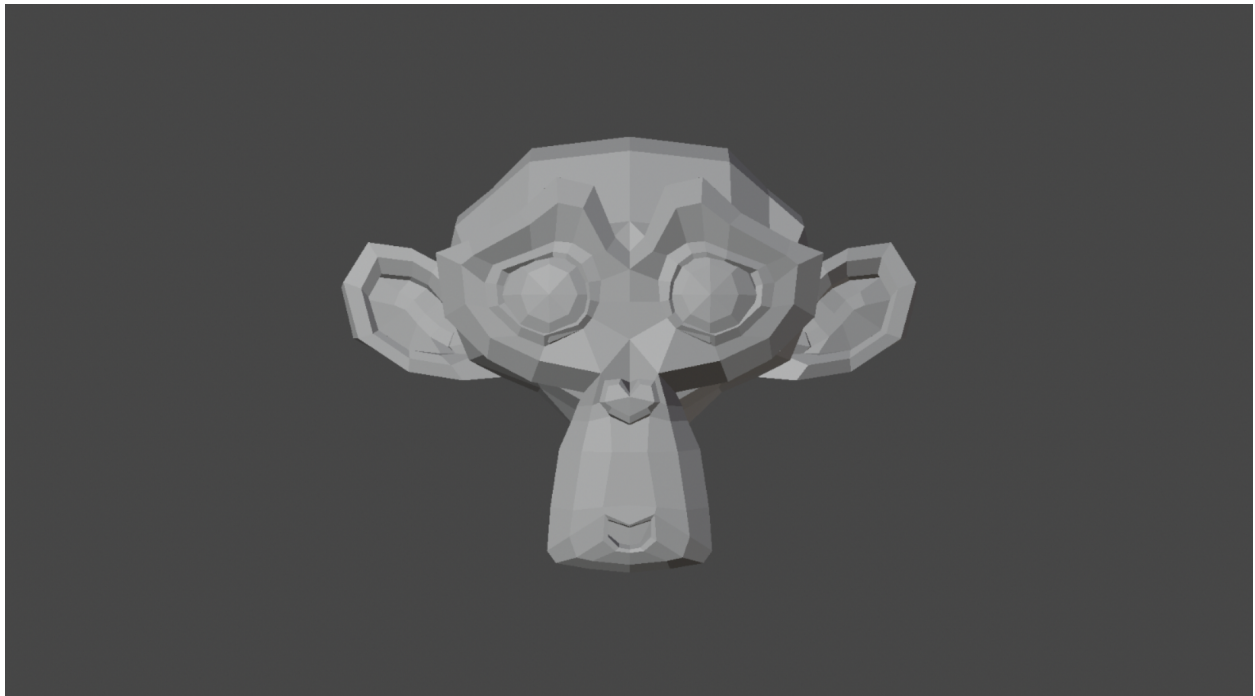
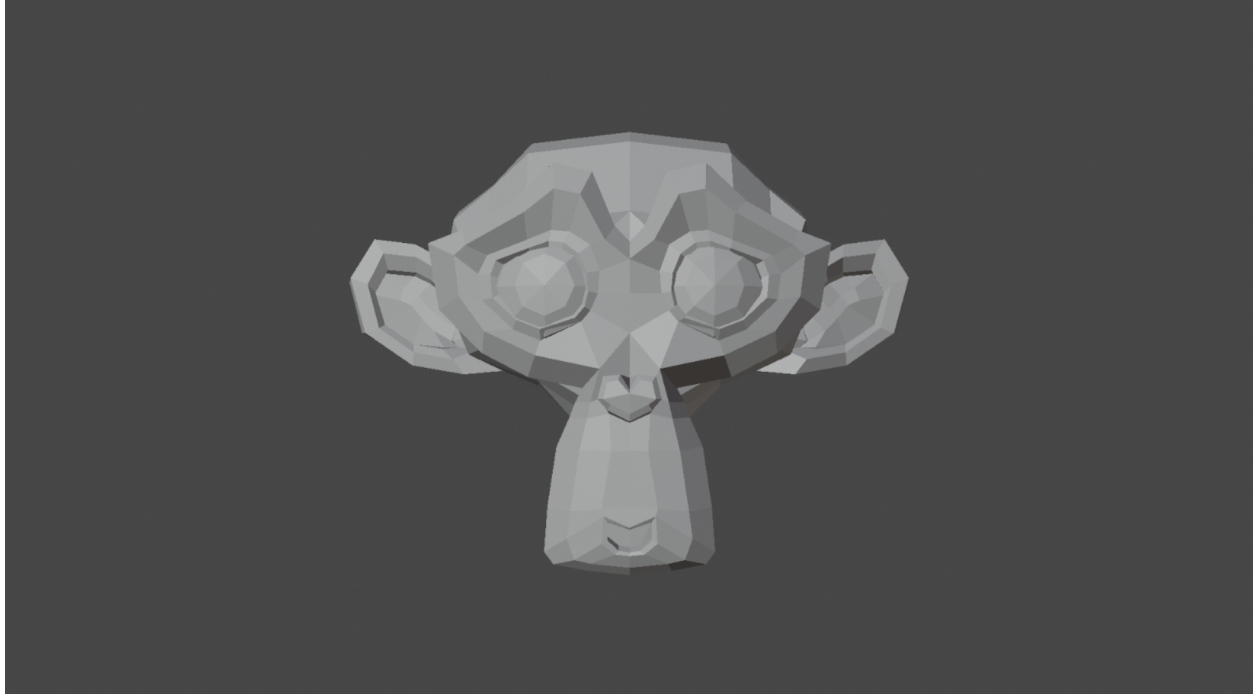
$[3 \ 0 \ 3]$

Checkpoint 4.

$[1, 0, 0, 3$   
 $0, \sqrt{2}/2, -\sqrt{2}/2, 0$   
 $0, \sqrt{2}/2, \sqrt{2}/2, 2$   
 $0, 0, 0, 1]$

Checkpoint 5.





Checkpoint 6.

They are all the same because the focal length control the zoom on the object.

Checkpoint 7.

