

## HotKeys:

**TAB:** toggle ObjectMode/EditMode

G - Grab (Move)

R- rotate

S- Scale

E - Extrude

A - Select All

X- Delete

To select something on your object you can :  
right-click anywhere

or hit 'C' for a circle-selection tool, and when done hit 'esc' to get out

Or hit 'B' for a box-selection tool, and when done hit 'esc' to get out

Viewport Rendering options

Selection Options

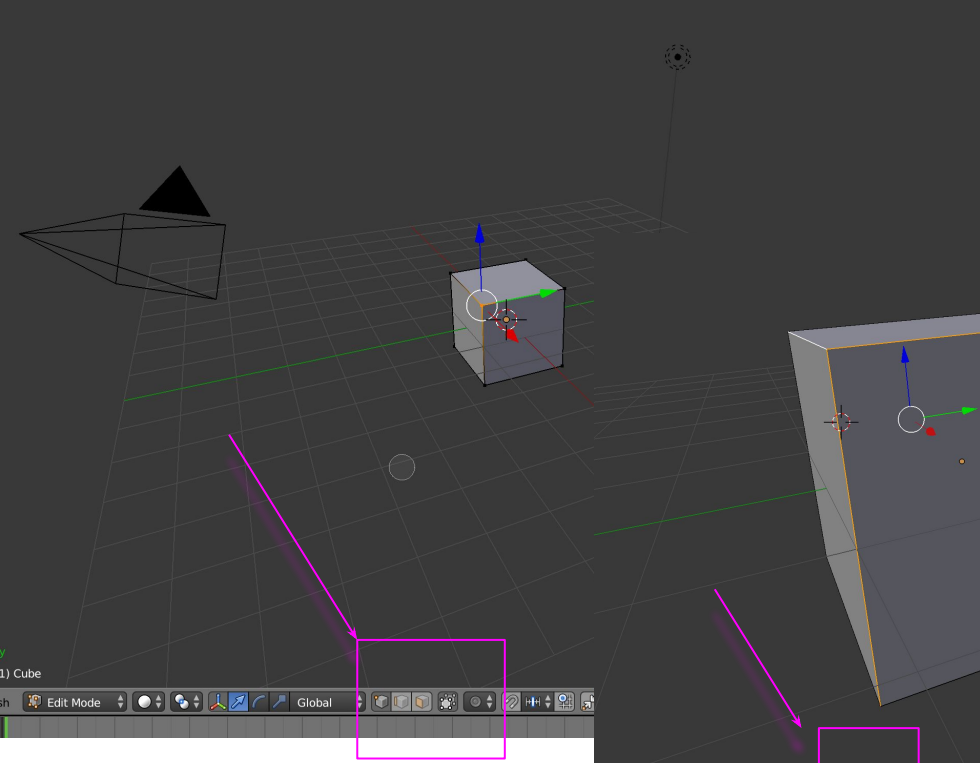
vertex, edge, face, transparency, magnet, snap to grid



N- for 'Numbers Bar'

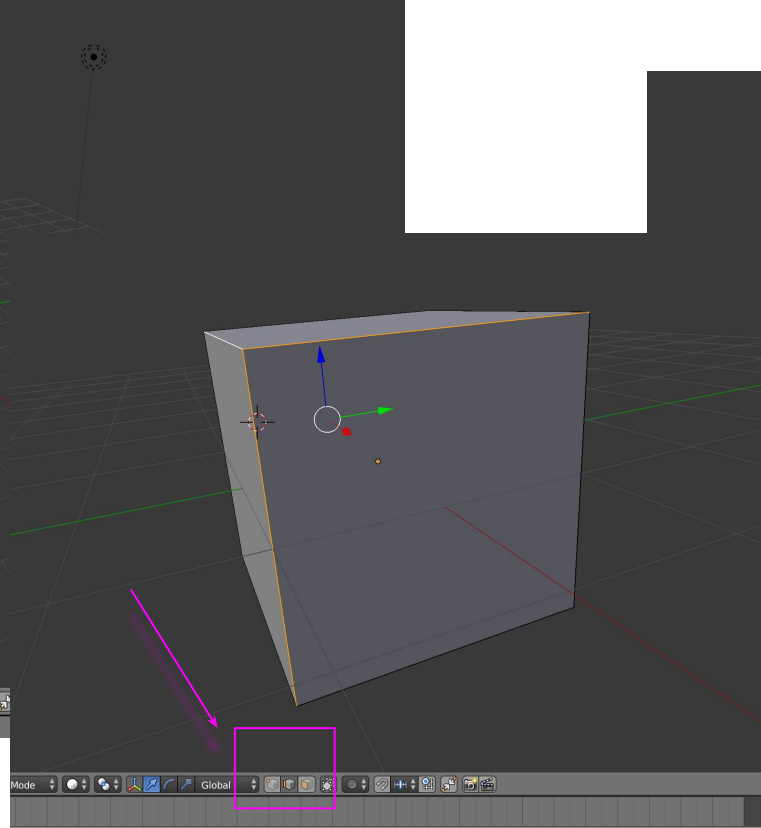
T- for 'Tool Bar'

# Edit Mode options:

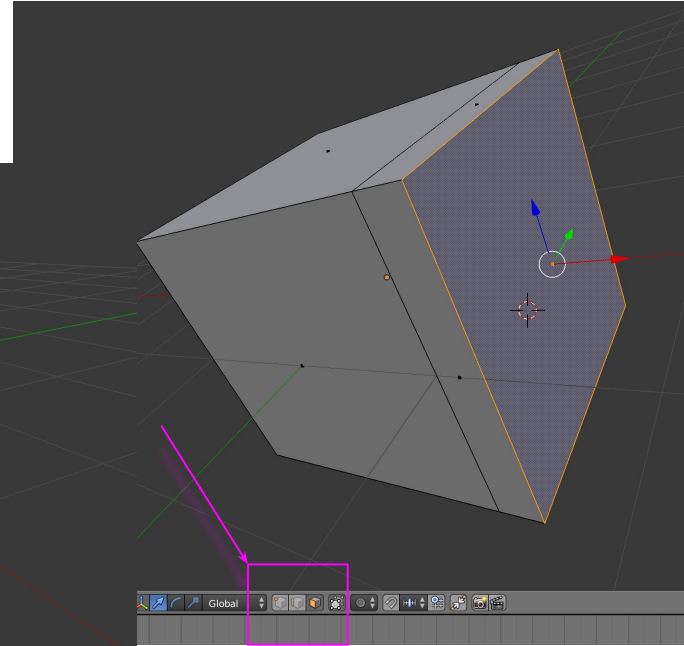


Vertex Select

(you can choose any number of these, one or all at once!)

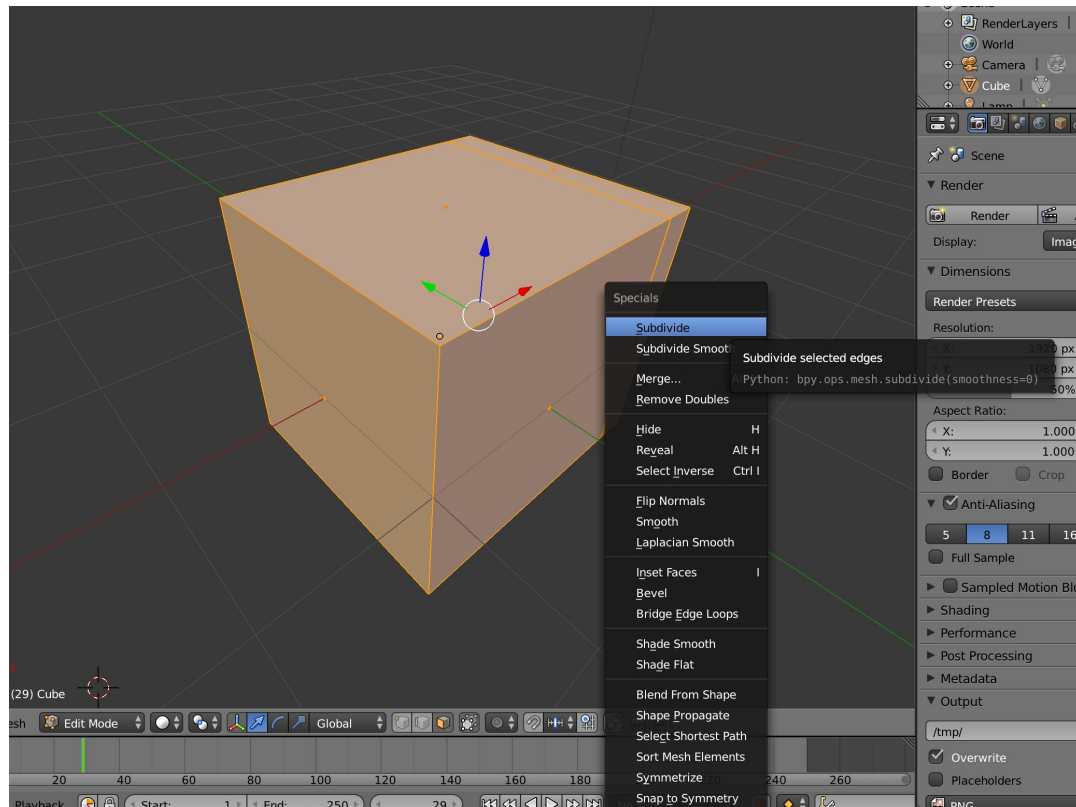


Edge Select

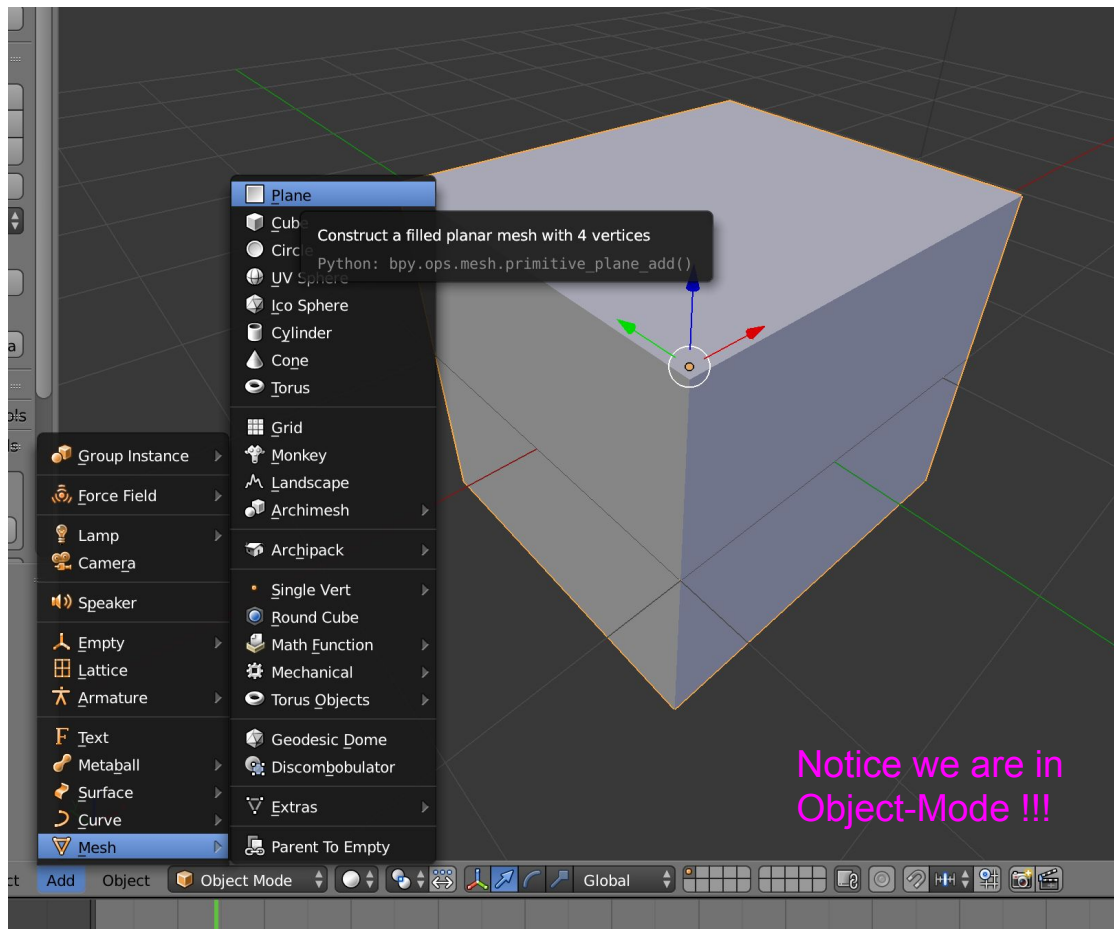


Face Select

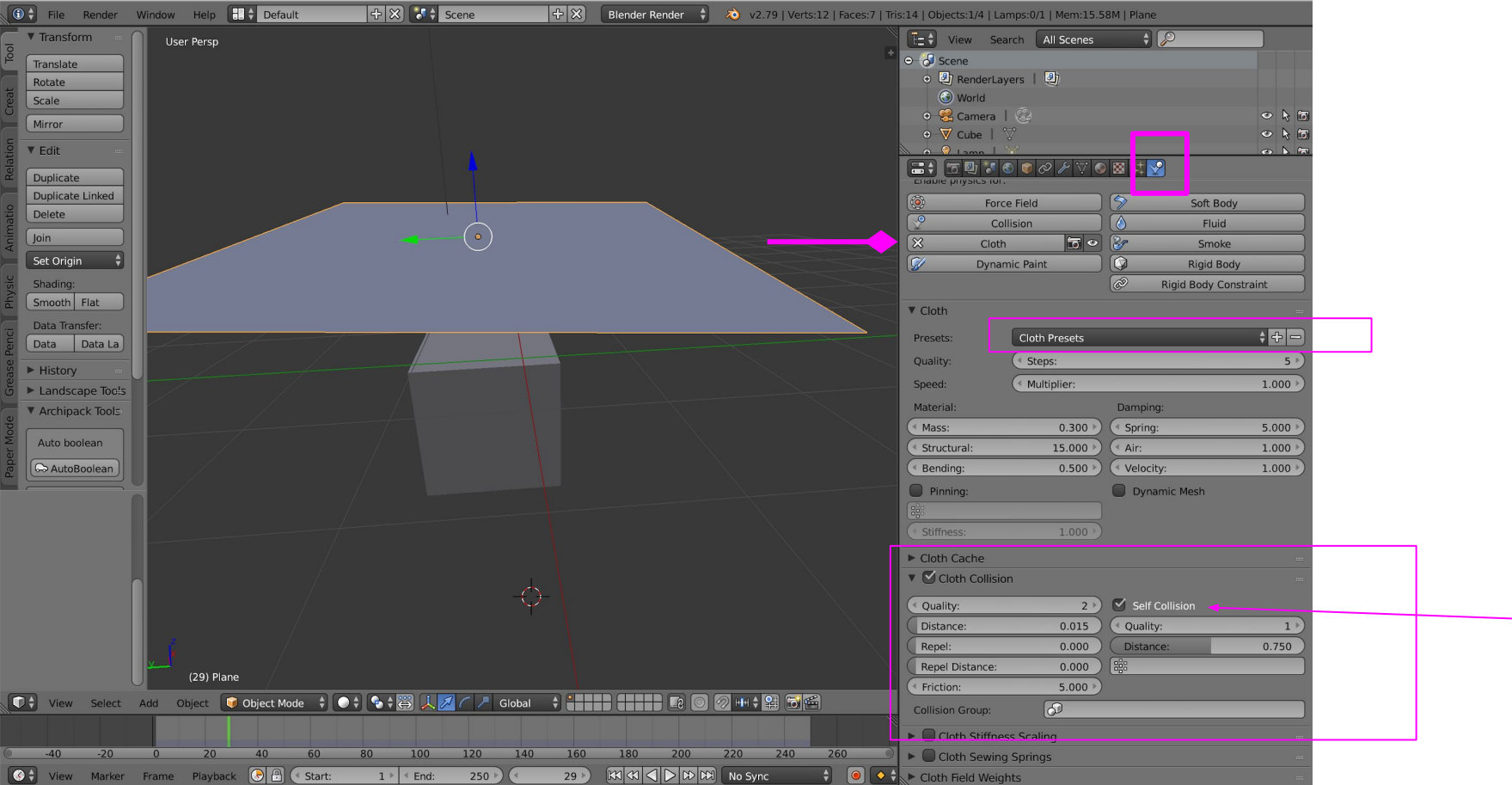
In Edit Mode, hitting Hotkey **W** brings up the Special Menu. *Subdivide* will be useful!



To create a Plane:



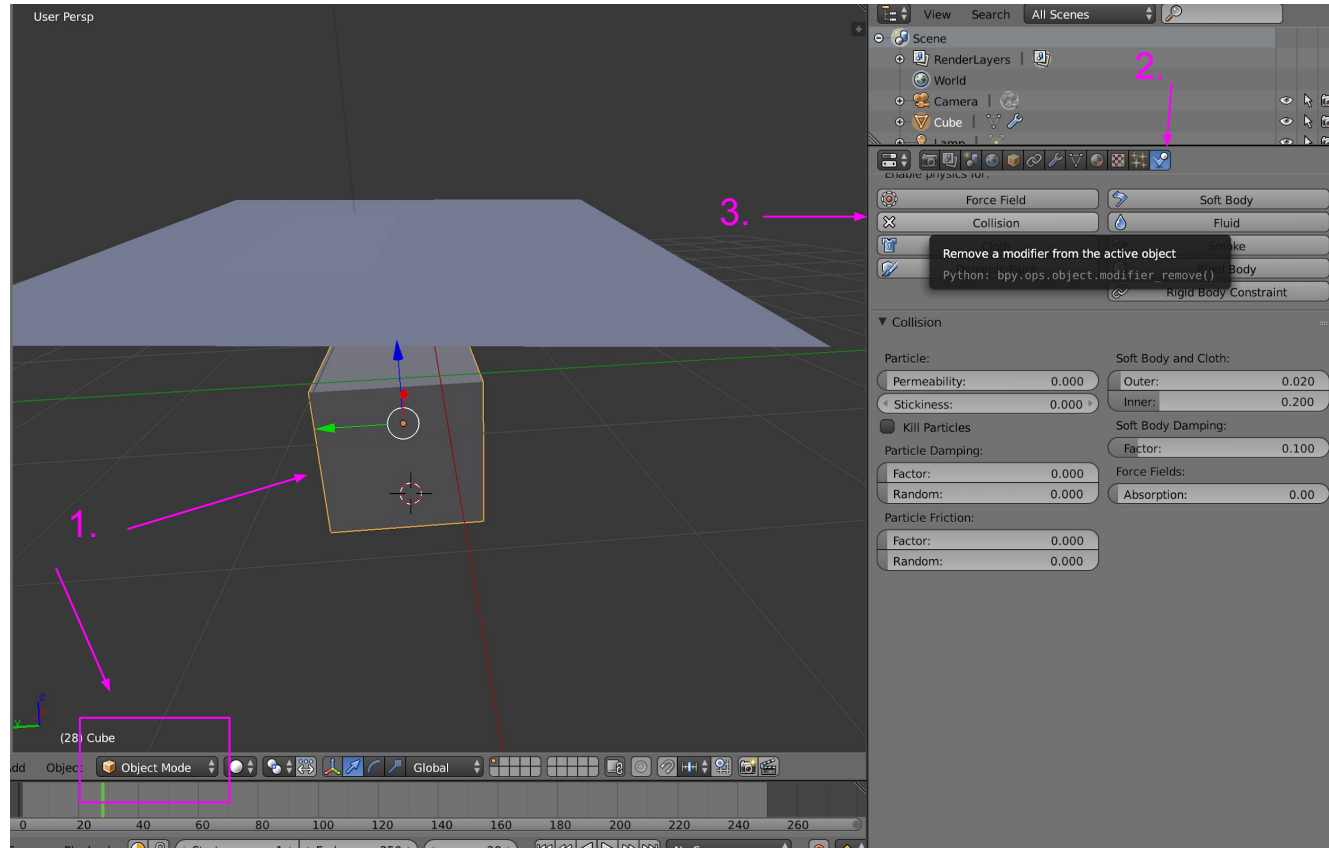
Subdivide your Cloth--Edit Mode> w > subdivide  
The Properties Bar > Modifier Tab > Simulate Cloth!



# Collision Object

To keep your cloth from descending into infinite gravity, it needs to collide with something (or be pinned to something). To set the cube as a collision object:

1. Select Cube
2. Go to Physics Tab
3. Select Collision

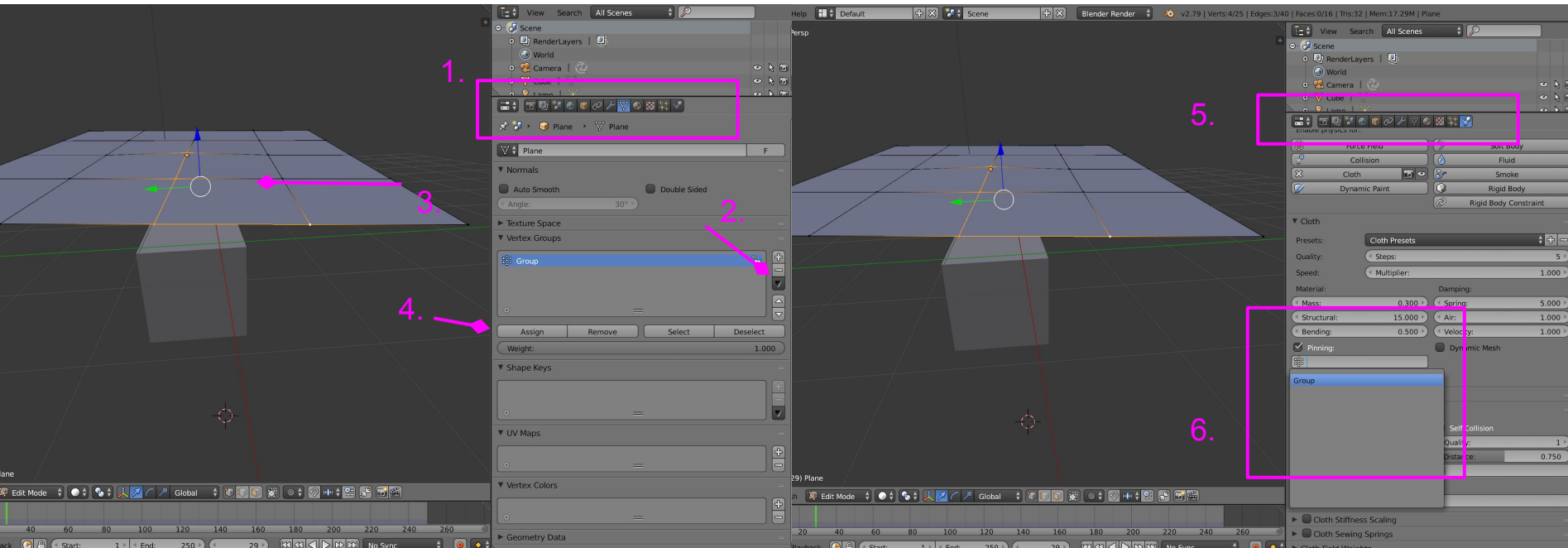


Select your cloth plane again, go to object mode and hit play to see the simulation run!!!

# Pinning:

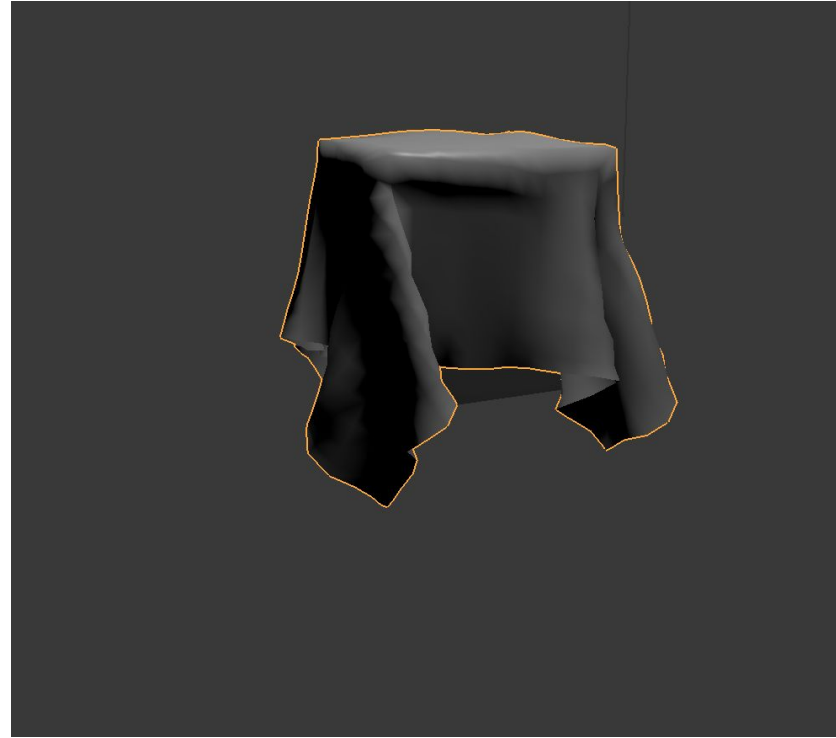
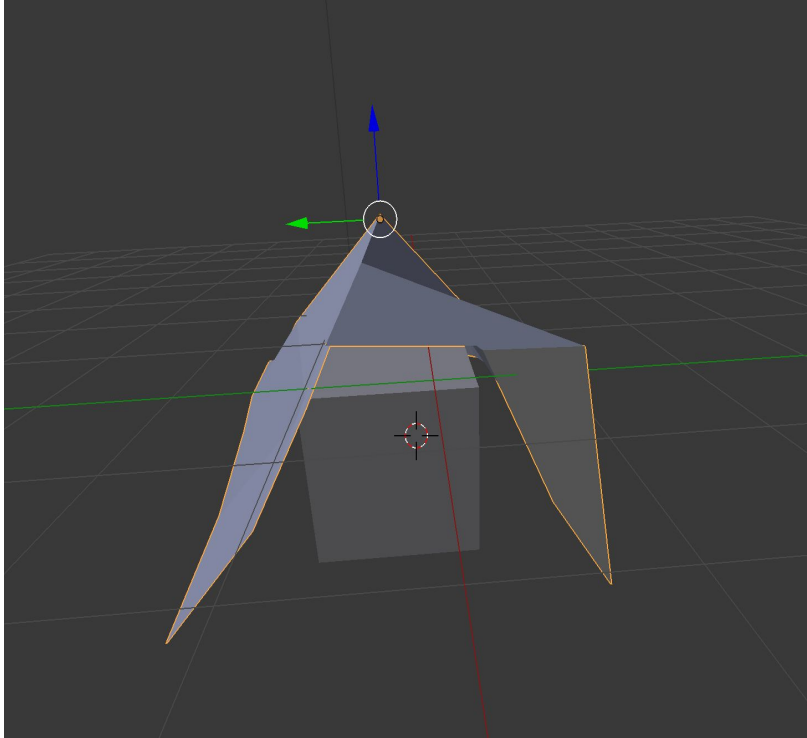
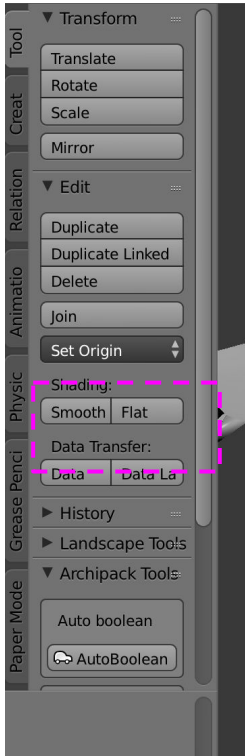
Select the vertices you want to stay put (in edit mode) and Assign them to a new “Vertex Group” under the Vertex tab of Properties.

Then Check the “Pinning Box” in the Cloth-Physics tab, and Select your Group



Go to Object Mode, then press play to see your simulation run!! (After cacheing)

# Reminder, you'll need to subdivide for smoothness!






To go deeper see the wiki:

<https://wiki.blender.org/index.php/Doc%3A2.6/Manual/Physics/Cloth>

### Collision Settings

Now you must tell the *Cloth* object that you want it to participate in collisions. For the cloth object, locate the *Cloth Collision* panel, shown to the right:

#### Enable Collisions

 click this to tell the cloth object that it needs to move out of the way.

#### Quality

A general setting for how fine and good a simulation you wish. Higher numbers take more time but ensure less tears and penetrations through the cloth.

#### Distance

As another object gets this close to it (in Blender Units), the simulation will start to push the cloth out of the way.

#### Repel

Repulsion force to apply when cloth is close to colliding.

#### Repel Distance

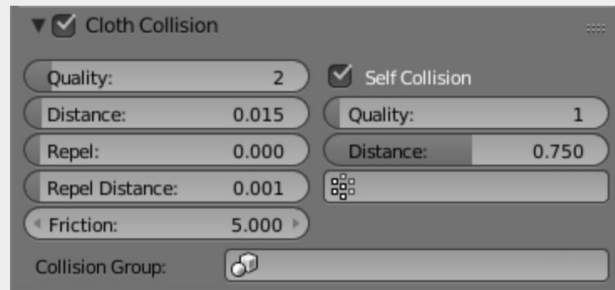
Maximum distance to apply repulsion force. Must be greater than minimum distance.

#### Friction

A coefficient for how slippery the cloth is when it collides with the mesh object. For example, silk has a lower coefficient of friction than cotton.

#### Collision Group

Allows limit collider to set here the Group.



*Cloth Collision* panel.

# BONUS! Sculpt Mode:

