Quick Start GuideModel a space crate

Contents

Initiate base model, adjust cube size/position, & save your scene	. 2
Bevel for chamfered edges	
Extrude for additional detail	
Review model and save	. 8

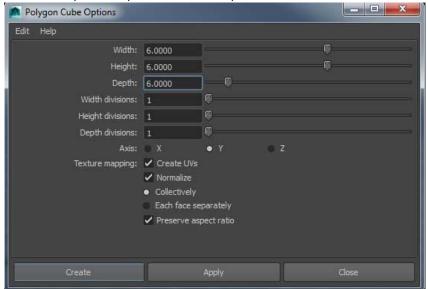
Initiate base model, adjust cube size/position, & save your scene

These four steps guide you through creating a new project in Maya, initialising a polygon cube as the space crate's foundation, adjusting the cube's size and position, and saving your scene.

Step Action

- 1 Initialise base model:
 - Open Maya and create a new project following the default file structure.
 - Create a polygon cube as the base model (i.e. mesh) for the space crate: Create > Polygon Primitives > Cube.
- 2 Adjust cube size:

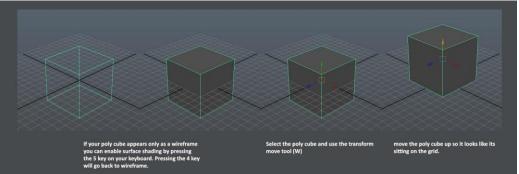
• The small square next to the cube is the option box. Selecting the option box will open a new window before creating the cube where you can input creation options you want to use, like size, number of faces, etc.



- Input dimensions (Width, Height, and Depth) of 6 units in the cube's option box and select Create.
- Anytime you create a polygon cube, Maya will generate one using the polygon cube
 options. If you want a cube of a distinct size or mesh detail, select the option box again
 and input the options you want.

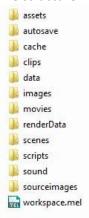
3 Adjust cube position:

- The polygon cube will appear at the origin or centre of the scene, with the cube's base below the grid.
- Move the cube up and above the grid using the Move Transform tool (W).



4 Save your scene:

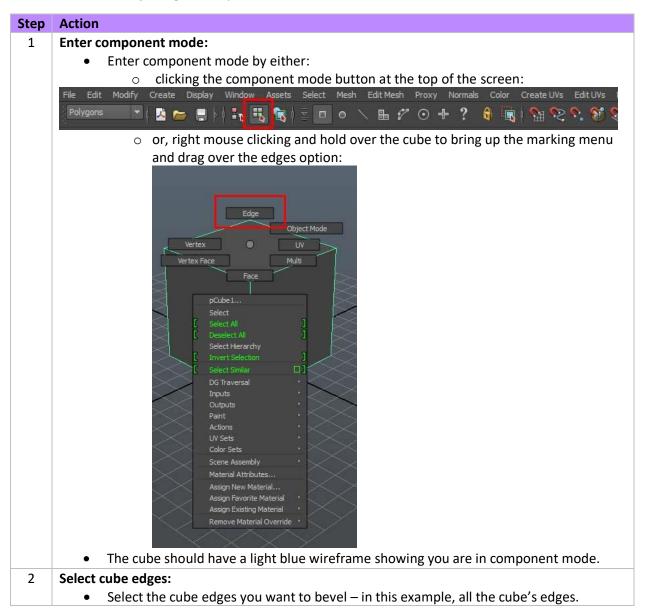
Maya has a default file structure which you must follow for each new project you
create or work on - there are often multiple files associated with each project, and the
file structure keeps everything organised:



• Save your scene in the 'scenes' folder of your Maya project, choosing a filename if this is the first time you have saved.

Bevel for chamfered edges

These four steps guide you through bevelling the cube's edges by entering component mode, accessing the Bevel tool, and adjusting bevel options.

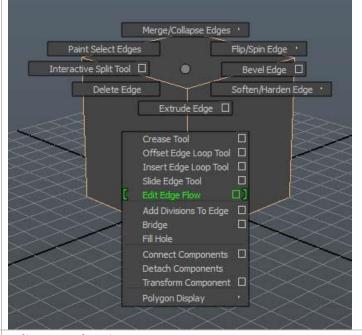


3 **Open Bevel tool:**

- Open the Bevel tool be selecting Edit Mesh > Bevel.
- if you cannot see the Edit Mesh option at the top of the screen, make sure you have Polygons selected from the dropdown menu:

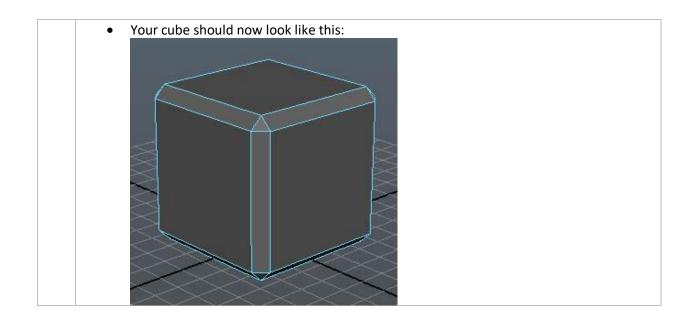


Tip: You can also access the Bevel tool using a marking menu. In component mode, with the edges selected, hold Shift + hold right mouse button. This brings up the modelling marking menu, which includes some of the most widely used modelling tools. Select Bevel Edge.



4 Adjust Bevel options:

- If you select the option box next to Bevel Edge, adjust bevel options:
 - Width 1500
 - Segments 1



Extrude for additional detail

These four steps guide you through extruding the cube's faces by accessing the Extrude tool and performing three extrusions.

Step **Action** 1 Stay in component mode: Remain in component mode to continue adding detail to your model using the Extrude tool. 2 Select cube faces: Select the faces of the mesh inside the bevelled edges. 3 Open the Extrude tool: Open the Extrude tool by selecting Edit Mesh > Extrude. Tip: You can also access the Extrude tool using the modelling marking menu. With the faces selected In component mode, hold Shift + hold right mouse button to bring up the modelling marking menu. Select Extrude Face. 4 Perform three extrusions: Use the Extrude tool three times: Single click on one of the scale manipulators to switch the extrusion centre handle to scale. Use the centre scale handle to scale the extruded face globally to create a face inside the cube. Use the Z translate handle to push the extrusion back into the cube slightly. • Use the G key with the faces selected to quickly repeat an extrusion (the G b key is the shortcut for repeating the last used action or tool). • Click once on one of the scale handles to switch to scale. Scale the new extruded face globally to create a new face inside your first extrusion. Use the G key to repeat your extrusion action С Use the Z-axis handle (Blue) to pull out the extruded face to create a small bump on the model. Select all faces inside the beveled edge, Extrude 1 Extrude 3 Translate the face in the Z axes tumble around your object to ensure First use the scale transformation to Scale the extruded face uniformly to to pull out a new set of extruded create another face inside the first you have all faces selected. scale the new extruded face uniformly faces and create a bump out in the then translate the face in the Z axes slightly

Review model and save

These three steps guide you through reviewing your model and saving it to JPG format.

Review your model: You should now have a completed model that looks like this: Take a screenshot: Press the Print Screen key on your keyboard to capture the entire screen or use a third-party tool (Snipping Tool, Snip & Sketch, or similar) to capture the model. Paste and save: Open an image editor (e.g., Microsoft Paint, Adobe Photoshop) and paste the screenshot (Ctrl + V). Save the image in your preferred format (JPEG, PNG, etc.).