3D modelling & Animation

By Andrew

What is 3D modelling?

Any guesses

What is it used for?

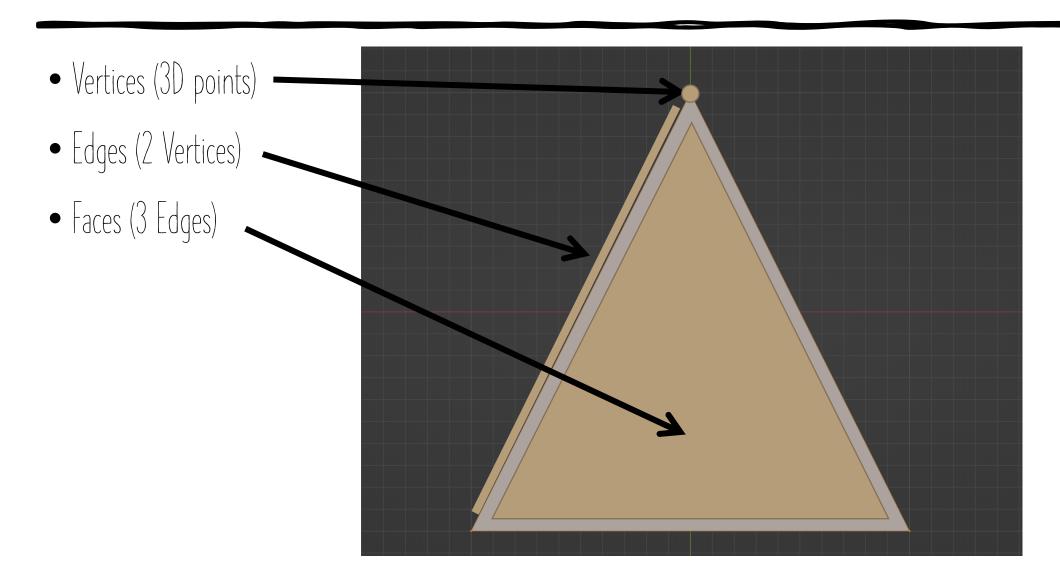
- Games
- Movies/C.G.
- 3D printing
- Architecture

Any other suggestions?

What can we use to make 3D models?

- Blender (Free & Easy to learn)
- Tinkercad (Web based & Easy to prototype)
- Autodesk Maya / 3DS max (Very expensive & difficult to learn)
- Sketchup (Web based)

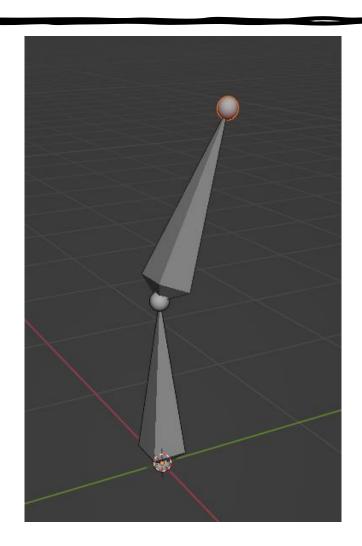
What makes up a 3D model

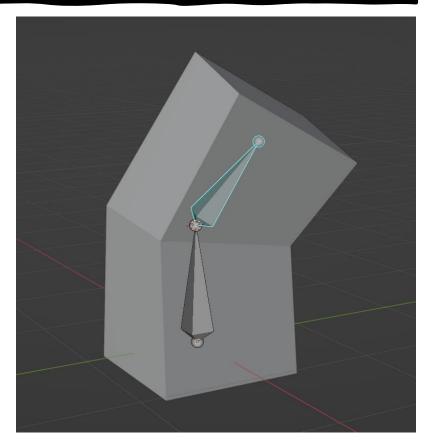


How do l'animate 3D models

 Mainly I use 'Armature' to model objects, think of bones and a skeleton.

You can pair models with armature

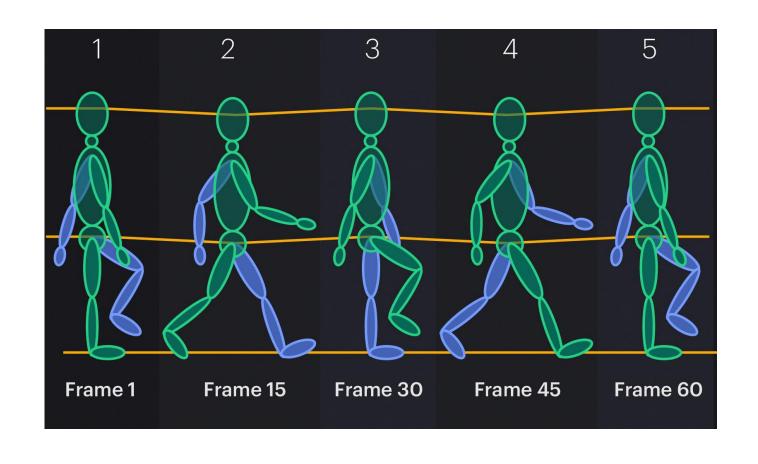




Do I have to animate each frame?

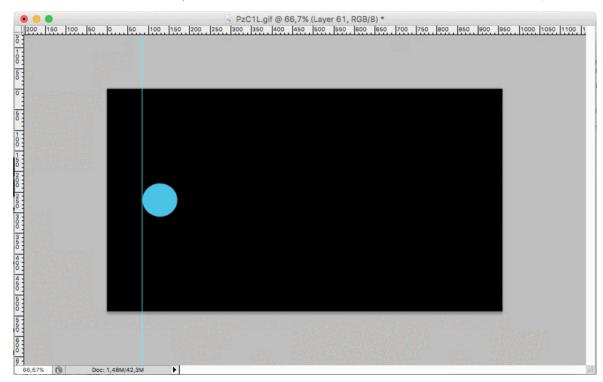
NO you don't have to!

Each KEY FRAME is all you have to animate, the software will usually fill in the blanks for you!



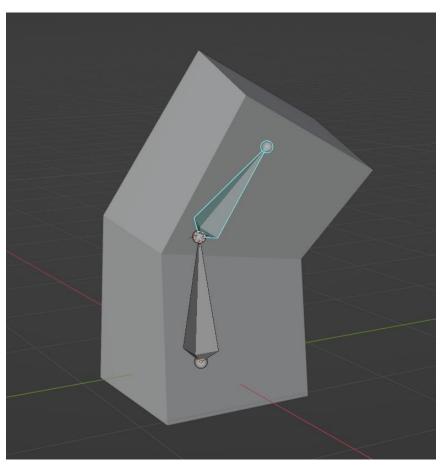
What is a key frame?

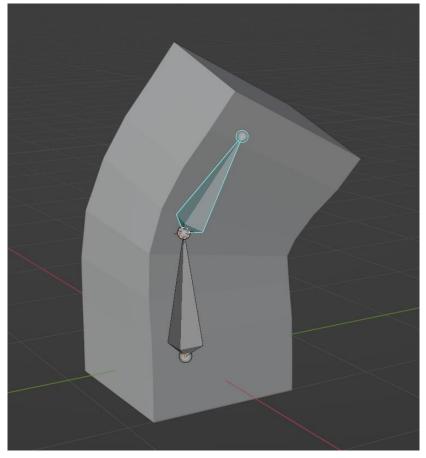
• A frame is a pose that you want your animation to look like in a certain time, a animation is made up of a bunch of frames called key frames!



How do I make the object/animation look better?

• The more mesh there is in the model, usually you get better results when animating





Example animation in blender

