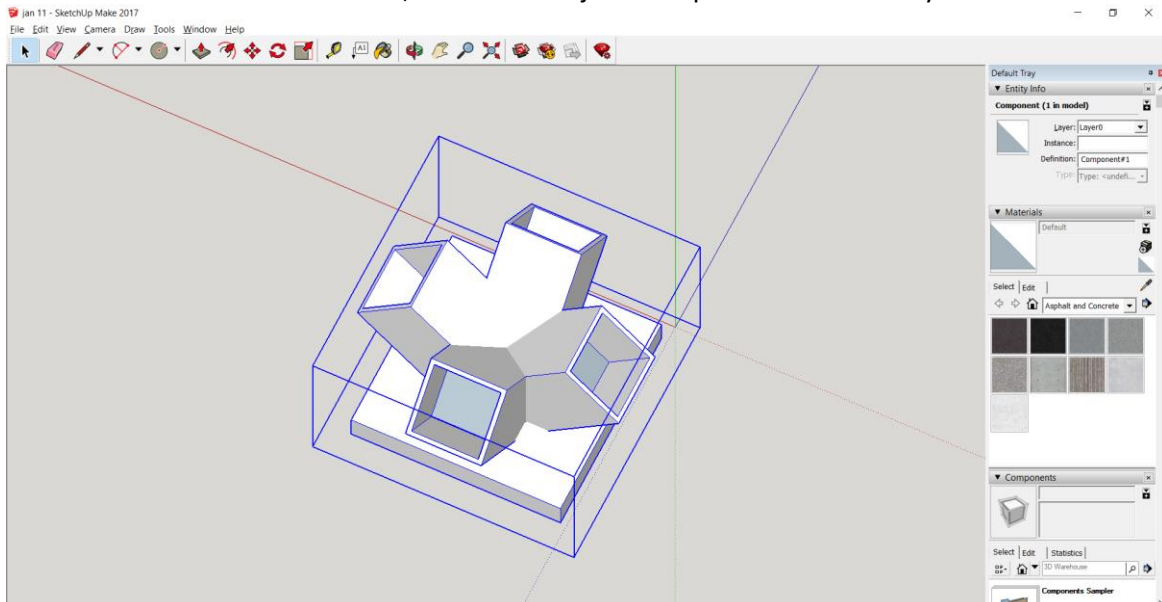


## 3D Modelling

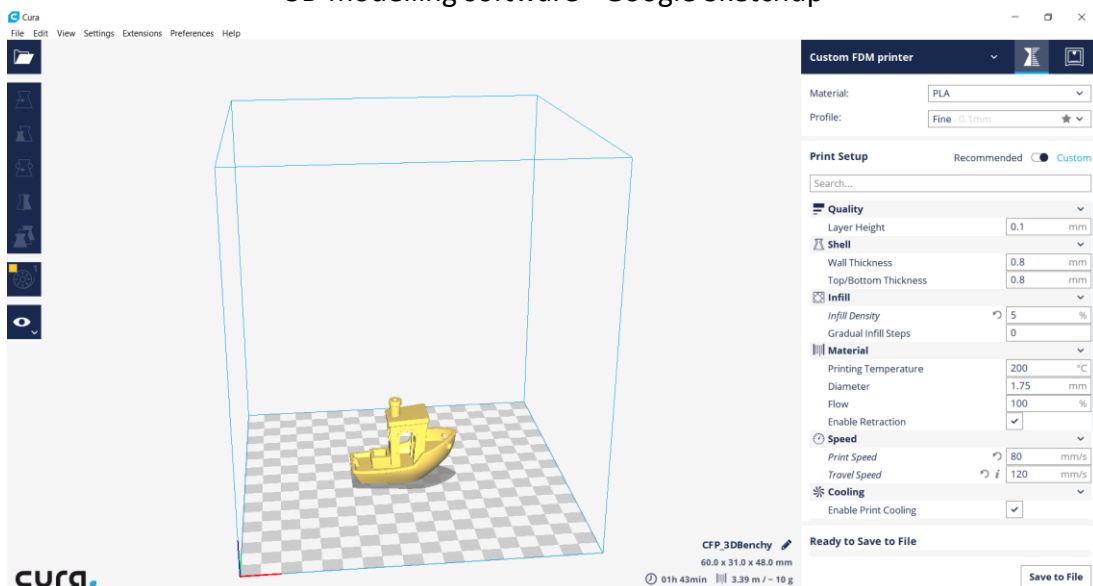
3D Modelling or 3D design is the process of creating CAD models of equipment to be printed.

### Elements of 3D modelling?

- 3D Modelling Software : Selection of a 3D design/modelling software according to one's skill level.
- 3D Slicing Software : Selection of 3D slicing software to produce object file suitable for the 3D printer.
- Interface/Toolbars : Once a software is selected, one must learn how to navigate through 3D space and understand how all the tool bars are set up.
- Viewports/Construction Planes : After understanding the camera, it is critical to understand how the viewports work, which views do what, what construction planes do and why they are important.
- Object Selection/Object Transposition : Once you have an object in your scene, one of the most important abilities is selecting it. Without selecting your model, it is very hard to do anything to it. After it is selected, you might want to move it around, scale it, rotate it, etc. Hence object transposition is also a key element.



3D modelling software - Google Sketchup



Slicing Software - Cura

## References:

The following is a non-exhaustive and suggestive list of resources on the concept of 3D modelling:

Resource Description	
3D modelling – Wikipedia	<a href="#">Link</a>
3D Printing – YouTube Channels	<a href="#">Link</a>
10 best 3D Printing tutorials	<a href="#">Link</a>
Popular 3D modelling design software	<a href="#">Link</a>
List of 3D Modelling software – Wikipedia	<a href="#">Link</a>

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1. Mentors are recommended to build their content and not plagiarize and then deliver to their audience in the ATLS.
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