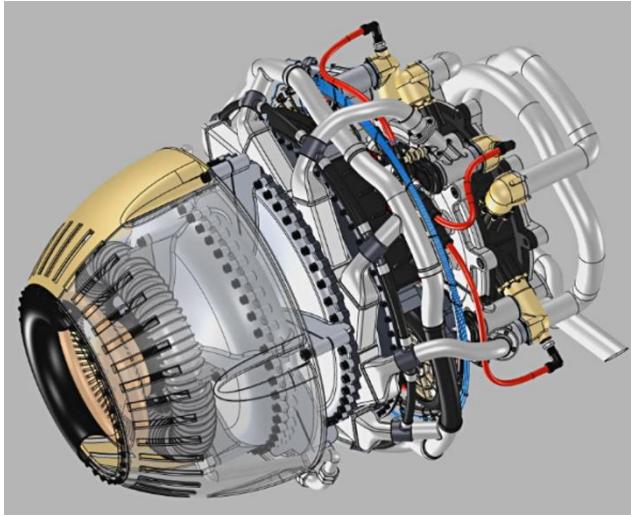




UNSW
SYDNEY

Australia's
Global
University

Computer-aided Design (CAD)



Topics

- What is CAD
- Basic CAD procedure
- Good CAD practice
- Live demo

On a scale of happy Kanye to unimpressed Kanye, how is CAD so far?



Total Results: 165

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A look back to the past

- It wasn't that long ago where if we wanted to represent something in 3D, we had the following options
 - A 3D sketch
 - Prototyping
 - Our imagination
- The advent of the digital age saw us dramatically increase our ability to visualise our designs



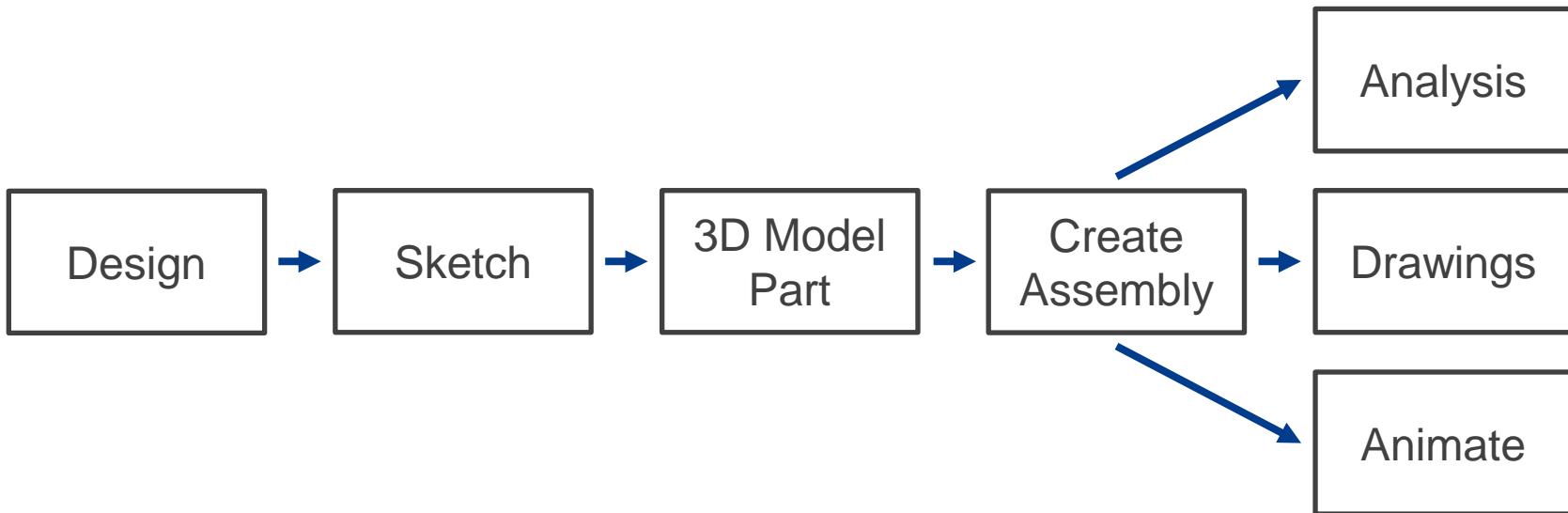
Where we currently are now

- Gone are the days of tedious reproduction and document sharing
- The ability to design, sketch, then render a component in 3D is easier than ever
- However, with new technologies comes new problems to manage
 - We will discuss some of these a bit later



CAD in a nutshell

- As you have all have no doubt experienced, the process for creating 3D models is not particularly difficult



Good CAD Practice

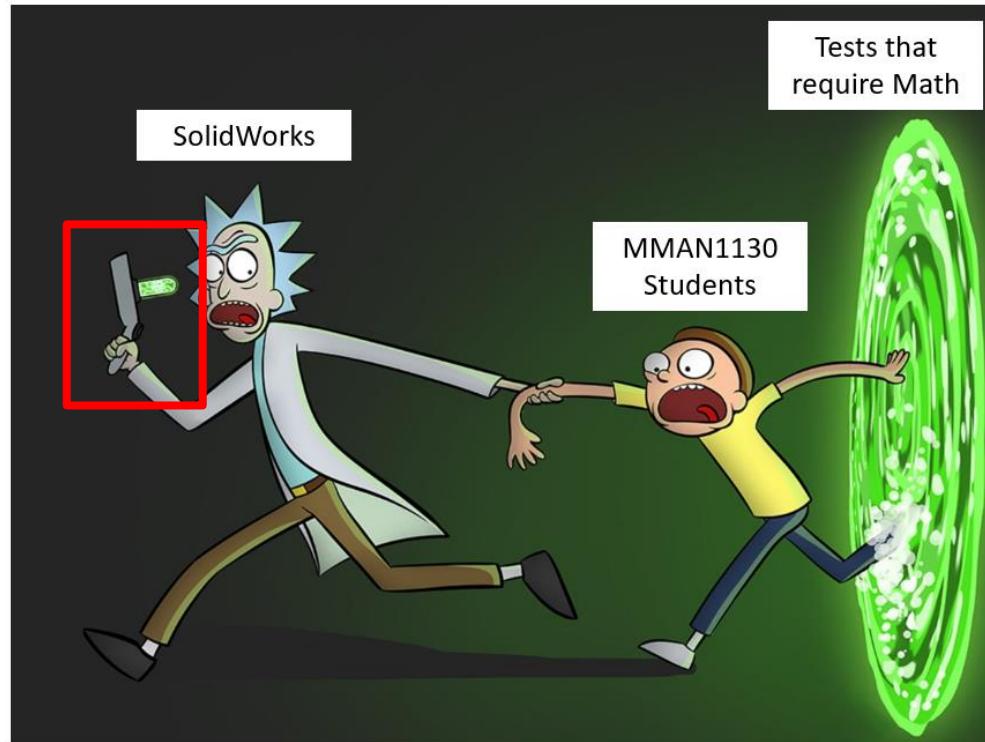
- Mindset
 - Additive vs Subtractive Mindset
 - Superficial vs Manufacture
- Clear and understandable
 - You may not be the only person required to work on the models
- Redesign Friendly
 - If you need to make modifications, you want it be intuitive.
- Naming convention
 - Thing.prt, blah.prt, test.asm

Live Demonstration

- There were a lot of amazing suggestions. Here are some of my favourites
 - Zinger box
 - Lightsaber/Darksaber
 - Among Us Sus Person
 - Portal companion cube
 - BLT sandwich
- Ok, so what are we actually making?



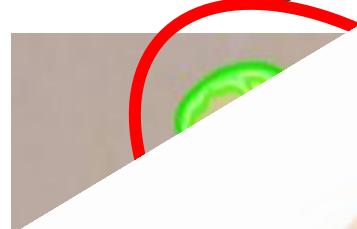
Live Demonstration



Portal Gun Strategy



Portal Gun Strategy



We'll make a box too!

Ok, let's do it!