Sign in: https://tinyurl.com/mknCAD or >



How To: CAD 1 (BASICS)

Welcome!

What You're in For:

- > What is CAD? Options?
- > Setting Up / Tips & Tricks
- > Demo: How Does It Work
- > Demo: Motor Mount

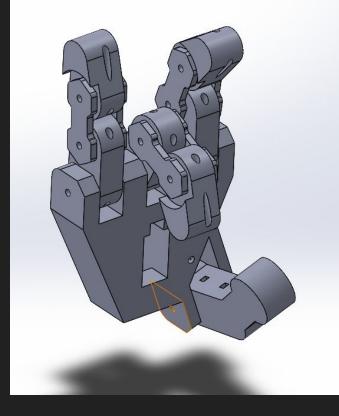
What is CAD? Options?

CAD = Computer Aided Design

- > Lets us design without using materials
- > Options (Green = Free):

DOWNLOADED: ONLINE:

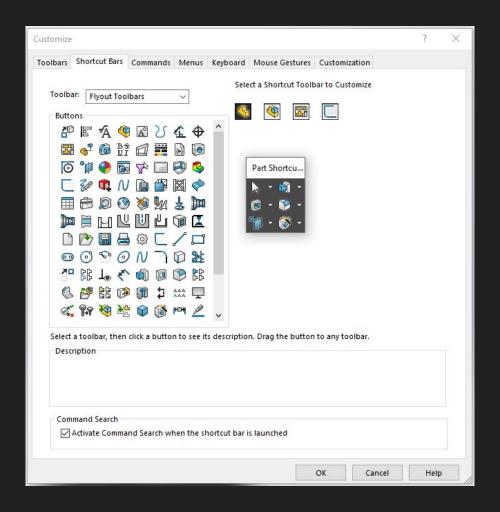
- > Solidworks > OnShape
- > Autodesk Inventor > Autodesk TinkerCAD
- > Autodesk Fusion 360 > SelfCAD
- > SketchUp

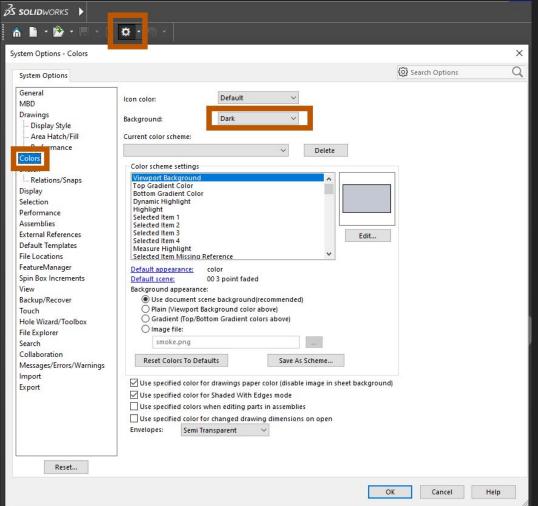


Setting Up / Tips & Tricks

Just some basics to make life easier

- > Light/Dark UI
- > Tools on UI
 - > Tools > Customize
- > Bind Rotation





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tegory: All Commands ~			~	Print List	Copy List
Show: All Commands				Reset to Defaults	
earch for: rot	a			Remove S	hortcut
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Insert	Component				
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Tools	Rotate			36	
Tools	Sketch Tools				
Tools	Rotate				
Description					

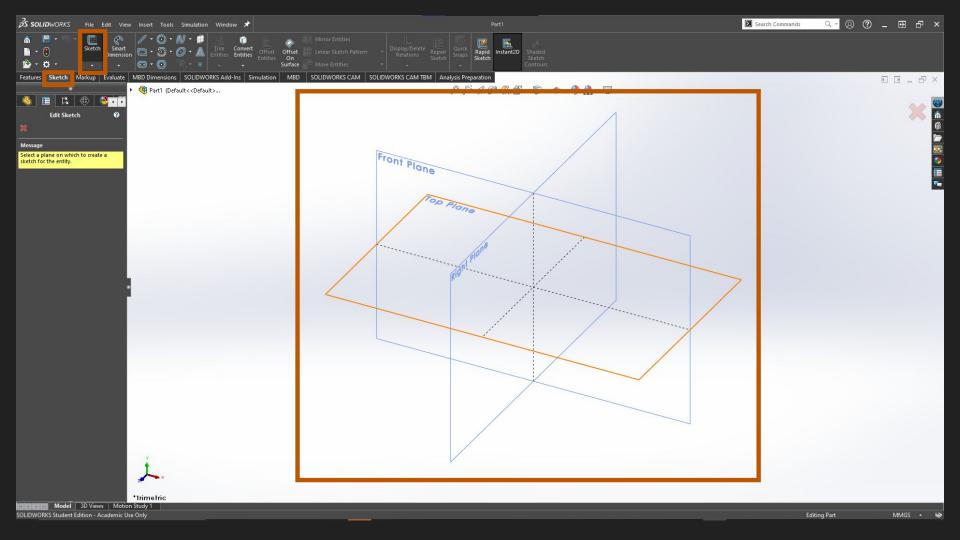
DEMO: How Does It Work

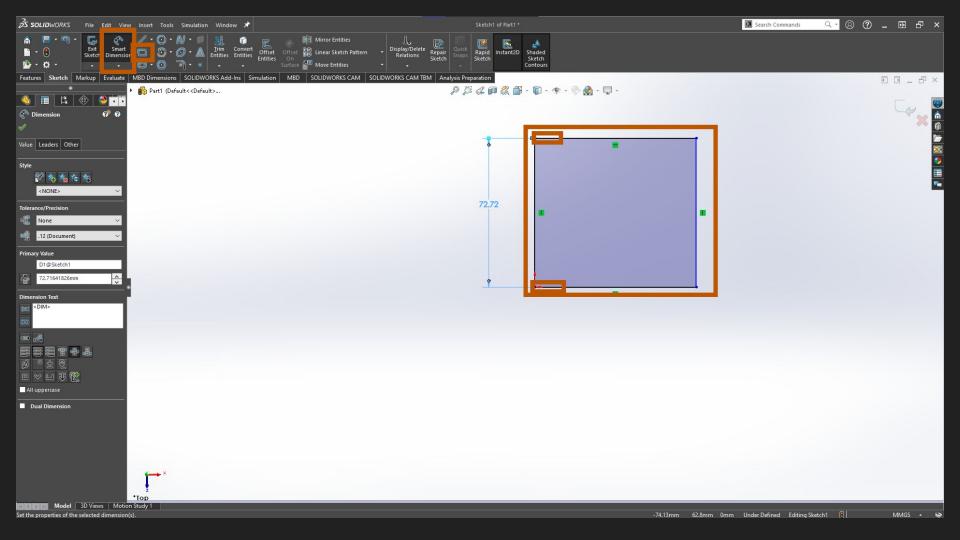
Super quick demo just to show off the essential tools

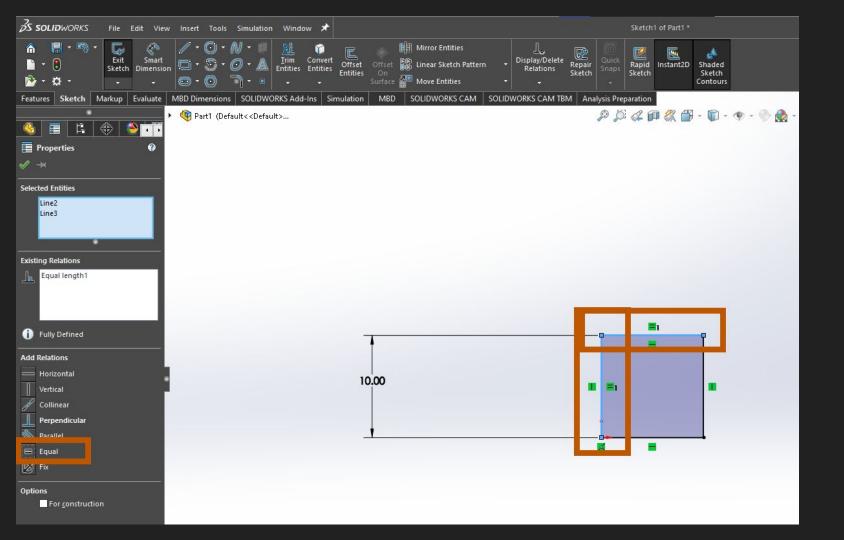
Clicks highlighted in orange

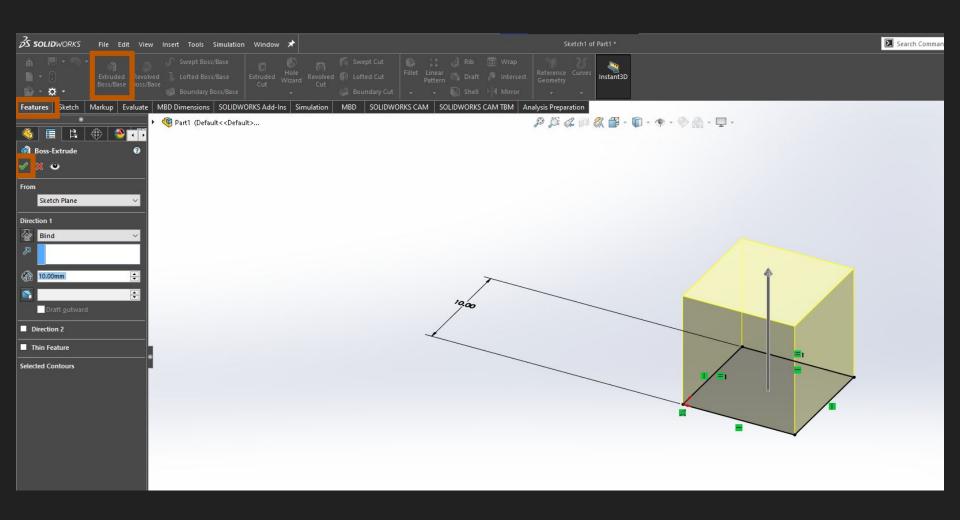
Making:

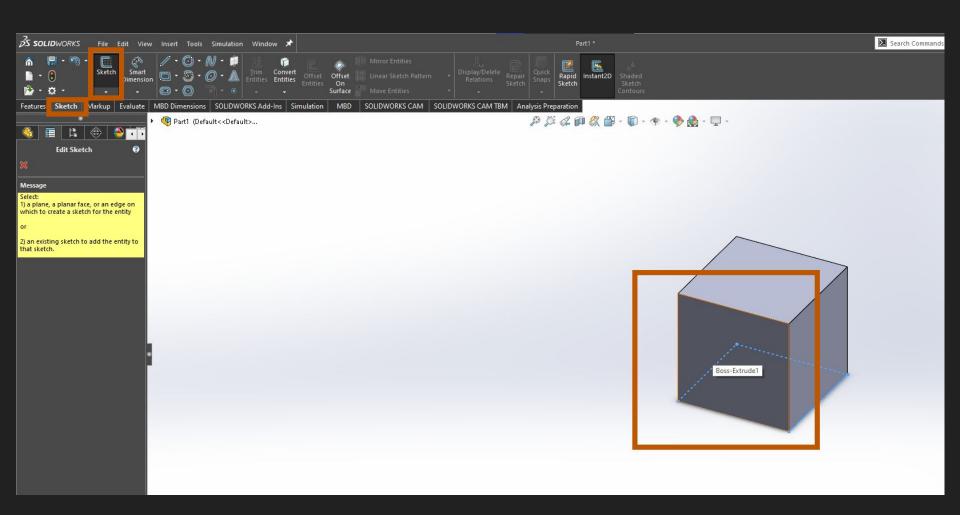
- > simple cube
- > with a hole in it
- > with chamfers

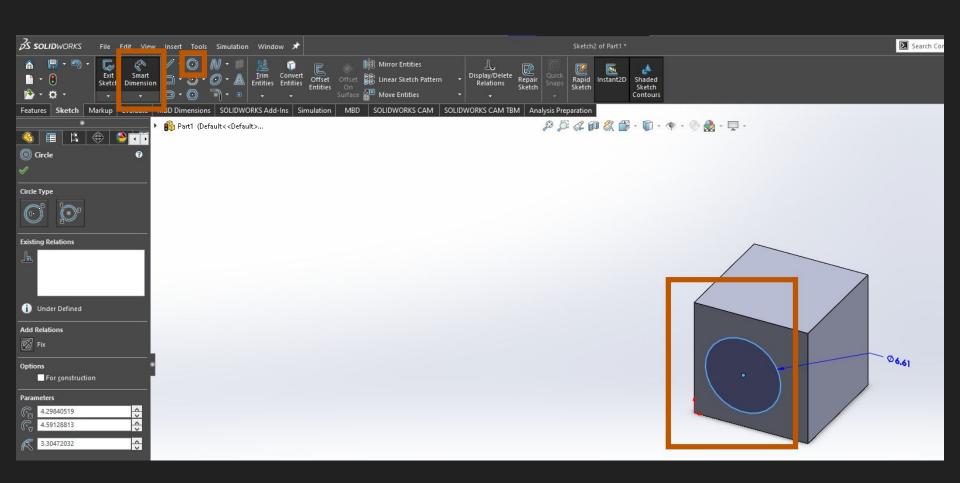


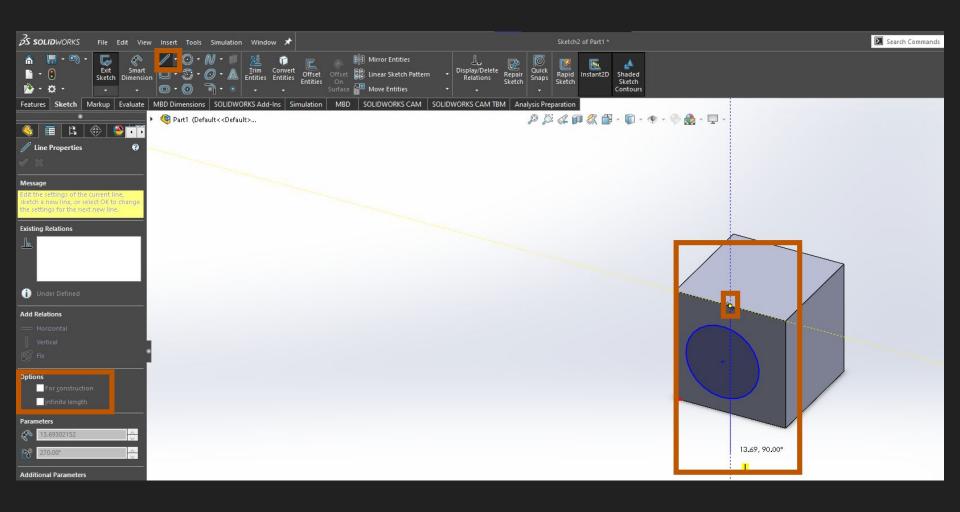


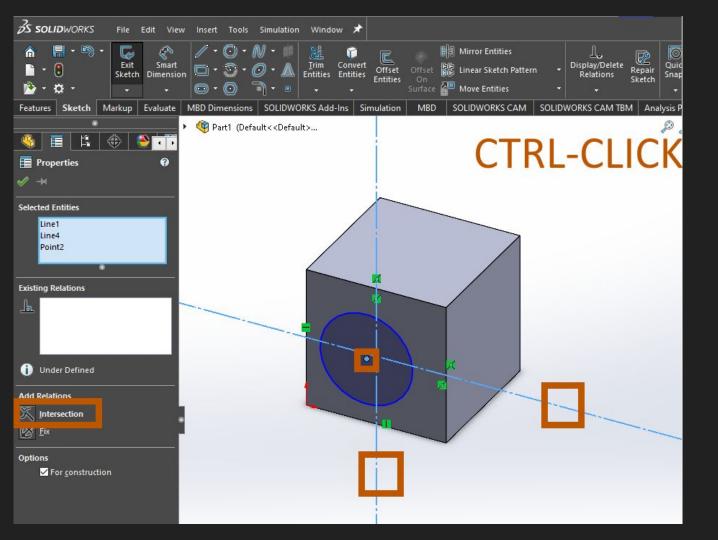


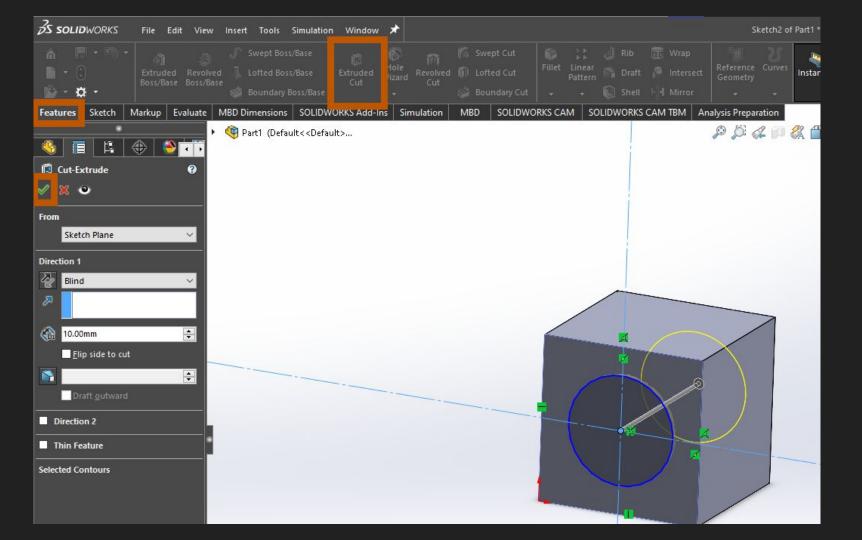


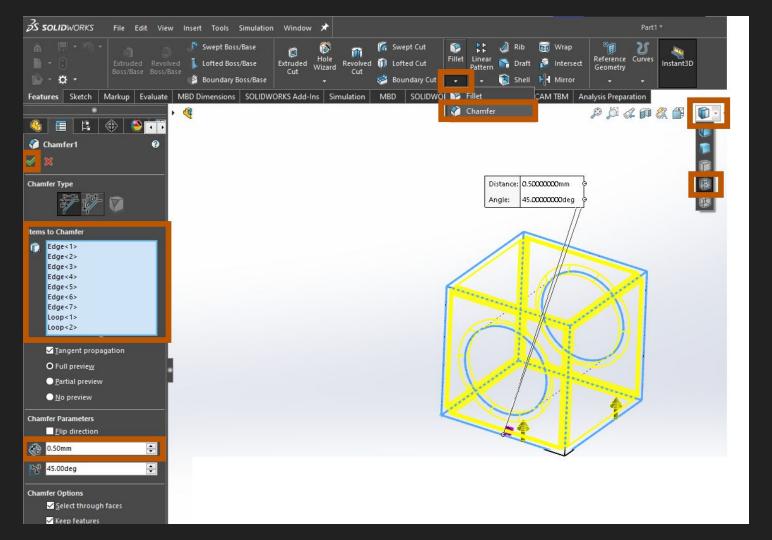


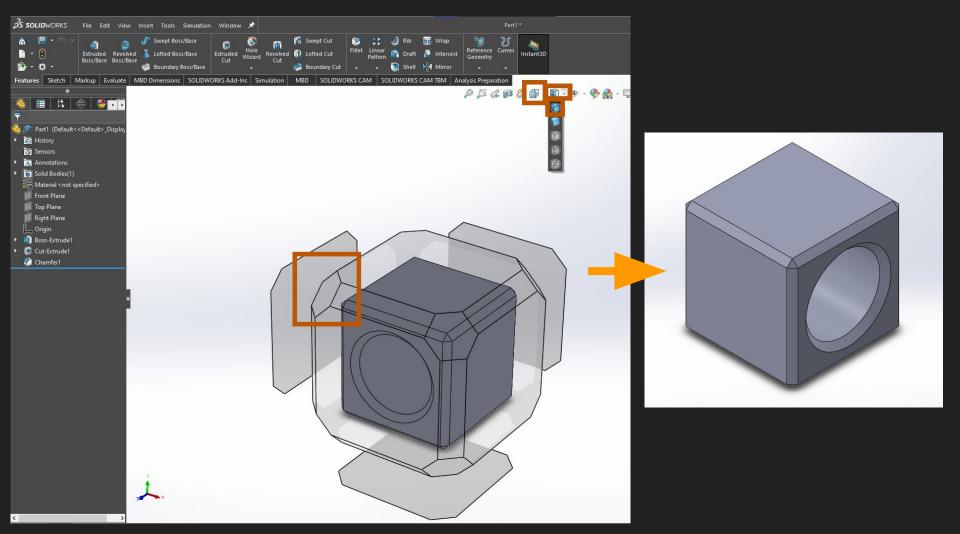












DEMO: Motor Mount

Now, something similar but practical

Clicks highlighted in orange

Making:

- > Mount shape
- > Hole to fit motor dimensions
- > Mounting and fixtures

What Motor?

https://www.pololu.com/category/60/micro-metal-gearmotors

> https://www.pololu.com/product/3037/resources

Pololu is great, you can get STEP models and everything from them

BUT

Usually life's not that easy, so we'll do this from the sheet

