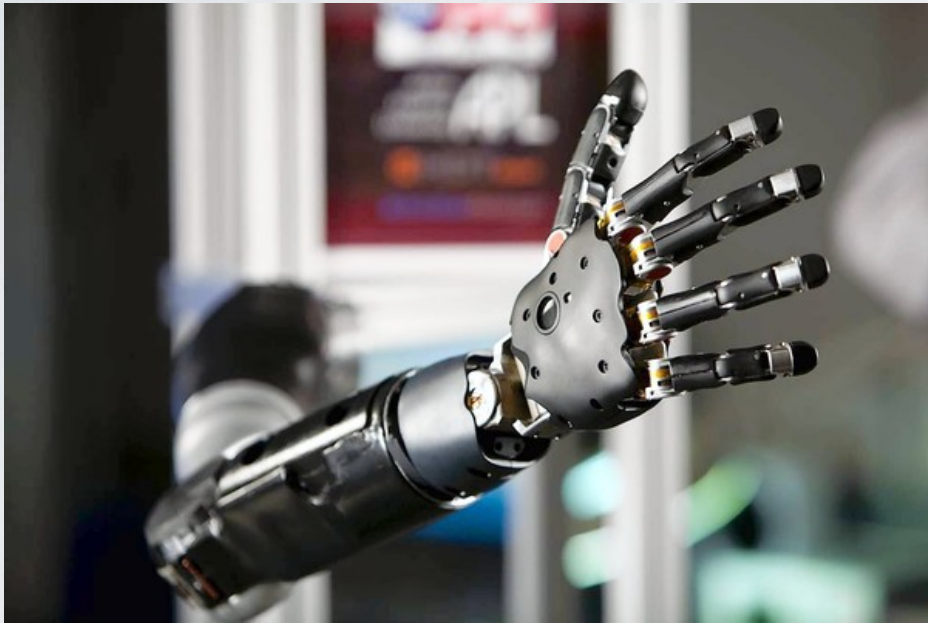


INTRO TO 3D PRINTING

Beta Class - Session I

WHY 3D PRINTING?



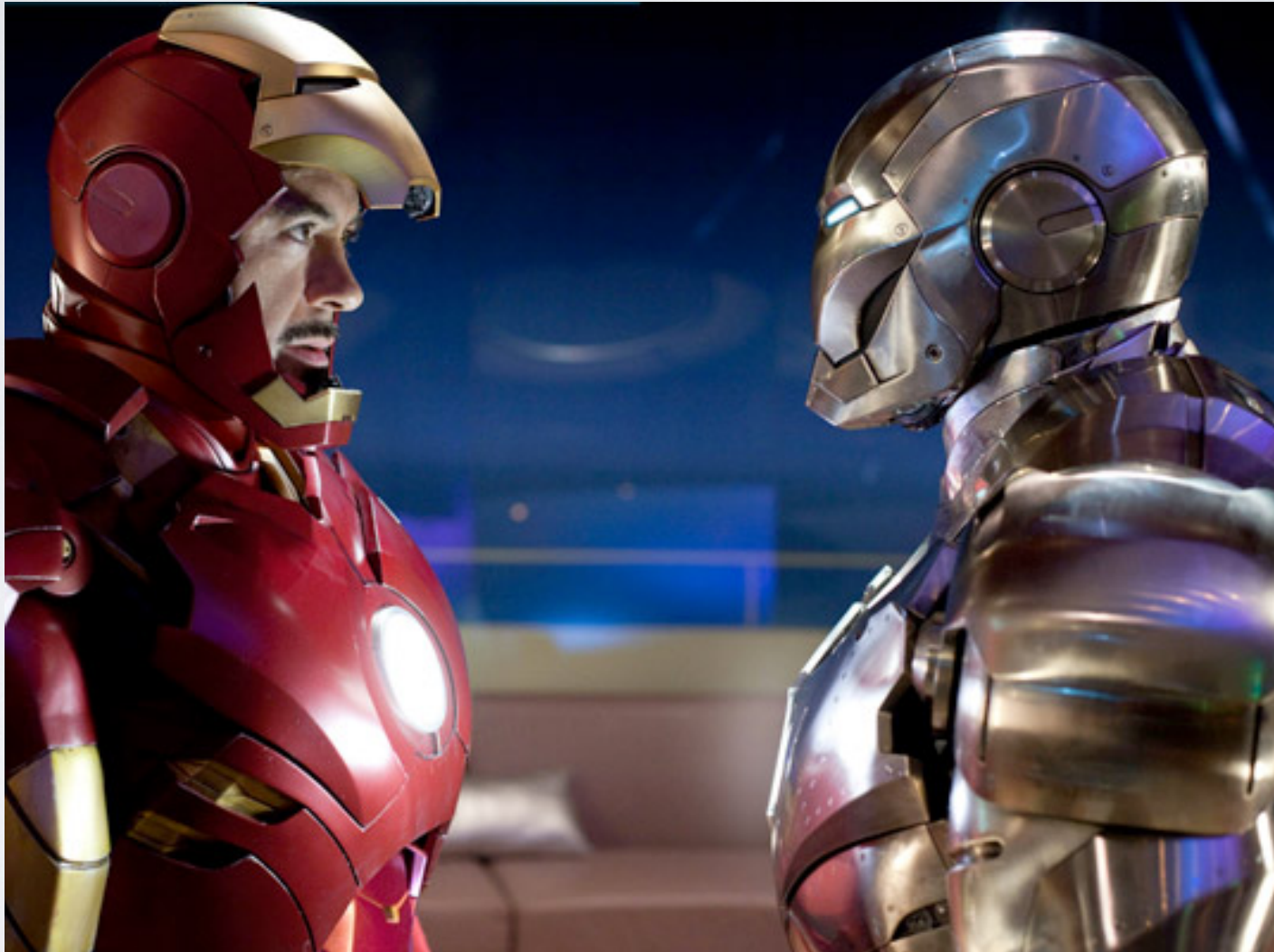
WHY 3D PRINTING?



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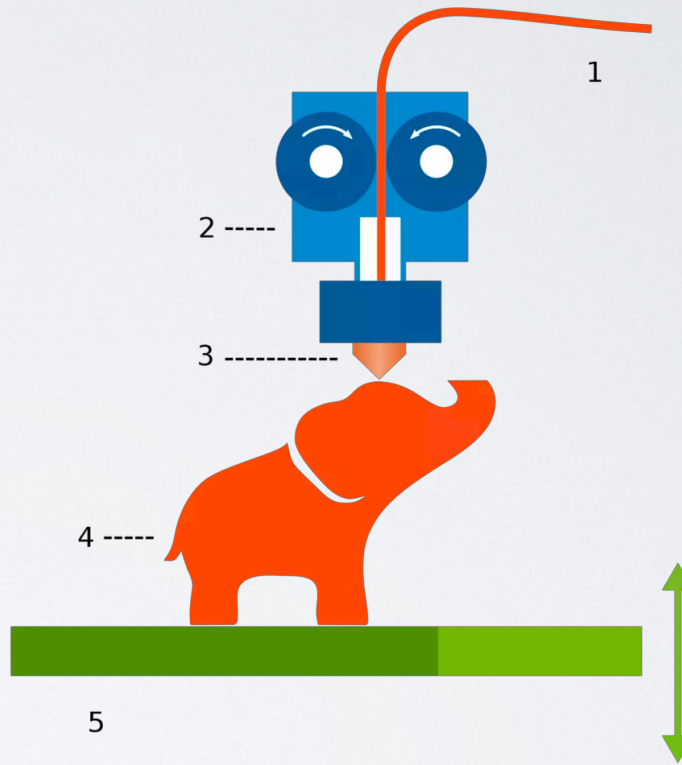


3D PRINTED STARBUCKS!



3D PRINTING TYPES

- FDM (Fused Deposition Modeling)



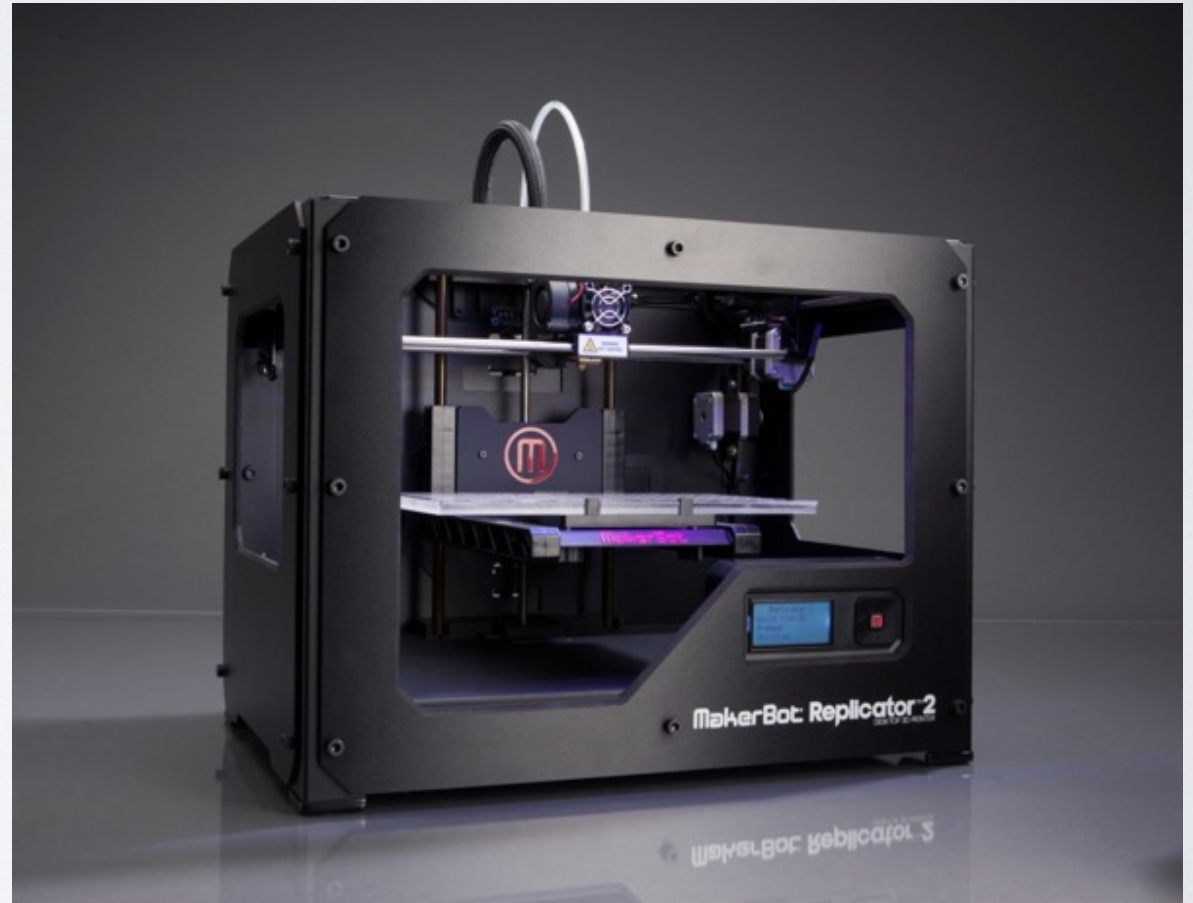
3D PRINTING TYPES

- SLA (Stereolithography Apparatus)



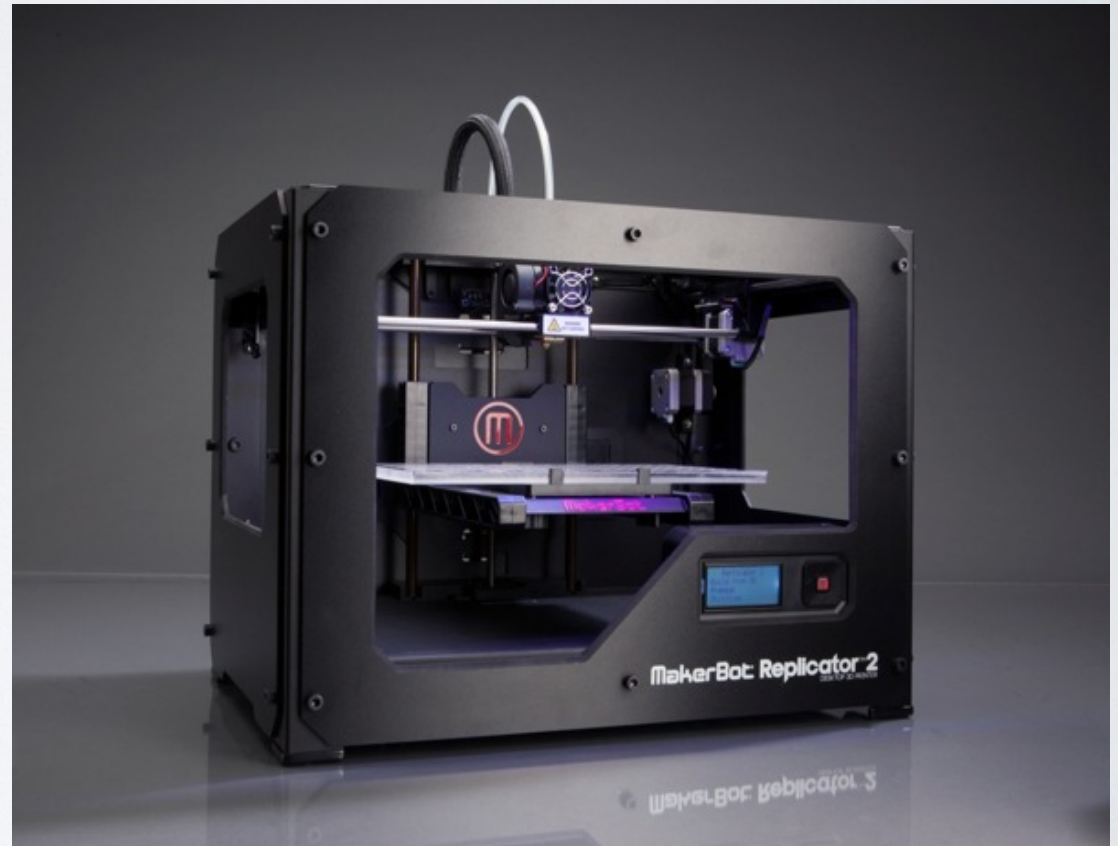
KEY TERMS

- Extruder
- Bed
- Filament
- LCD Screen
- Cooling Fan
- Hot End
- X,Y,Z



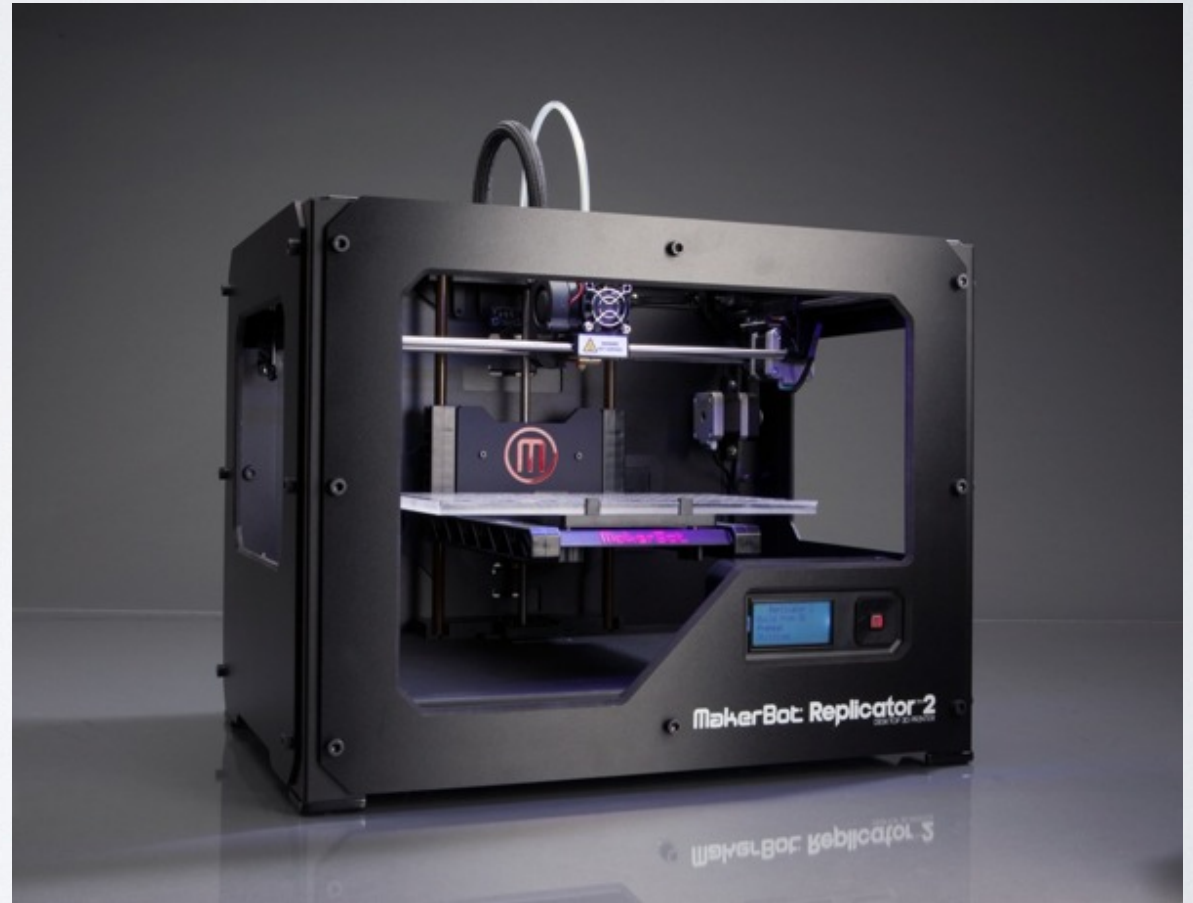
STEPS

- Design Object
- Export to STL
- Slice STL -> gcode
- Upload gcode -> Printer
- Print! (OctoPrint)



BONUS KEY TERMS

- Slice
- OctoPrint
- Raspberry Pi
- Brim
- Supports
- Infill
- Layer Height
- Nozzle Size



CLASS SCHEDULE

- Today (Week 1) - Intro
 - Homework - Identify 5 print design options
- Week 2 - Discuss, slice, upload
- Week 3 - Customize, slice, upload
 - Homework - Identify 1 advanced print design
- Week 4 - Discuss, vote, slice, upload
- Week 5 - Post Process & Assemble