



AGENDA

TED

1. Show & Tell – ~~???~~ (Official) Photographer

2. Pizza

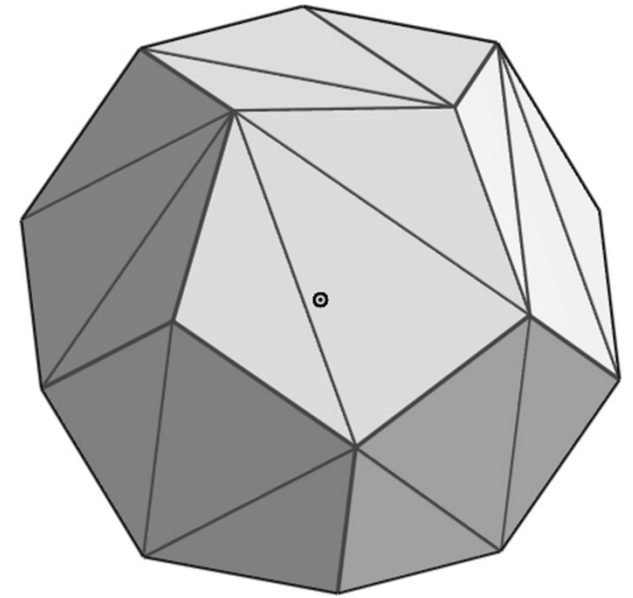
3. Share Experiences – Show & Tell

4. Special Topics –

A. Stl vs 3mf

5. Next meeting & topics and/or demos

- **FRIDAY, 09/25, 12-2pm, Topic – Filament types**



.STL



STL vs. SLICER PROJECT FILES

What Are You Really Sending?

Share the design. Let everyone print it their way.



SENDING FILES: WHAT HAPPENS WHEN SOMEONE OPENS IT?

FILE YOU SEND	OPEN IN SAME SLICER	OPEN IN RELATED SLICER (Same Family)	OPEN IN UNRELATED SLICER	DIFFERENT PRINTER
STL (Geometry)	✓ Works great. Slice and print.	✓ Works great. Slice and print.	✓ Works great. Slice and print.	✓ Works great. Slice for that printer.
SLICER PROJECT (Often .3MF)	✓ Best result. Everything as saved.	⚠ Might work. Some things may change or be missing.	✗ Often troublesome. Many settings, features, or behaviors won't transfer.	✗ Usually not usable. Many settings, settings, filament, limits, etc.
G-CODE (Machine Code)	✓ (If same printer & setup) Prints the same way.	✗ Not useful. G-code is already machine code.	✗ Not useful. Wrong printer.	✗ Not safe. Will not work correctly.

THE HOODIE STORY (A Real Example)

1. Found a customizable hoodie on MakerWorld.
2. Personalized it in Bambu Studio.
3. Tried to open the 3MF project in FlashForge / Orca slicer.
⚠ **Result: Geometry appeared, but features and project behavior did not transfer cleanly.**
4. Exported the STL.
5. Opened in FlashForge slicer, re-sliced for Creator 5, and printed.
✓ **Result: Success!**

WHEN TO SEND STL

- ✓ Sharing a design with others
- ✓ Different slicers
- ✓ Different printer brands
- ✓ Upload to Printables / Thingiverse
- ✓ Long-term archive
- ✓ Re-slice with different settings

WHEN TO SEND PROJECT FILE

- ✓ You want to share your exact print setup
 - ✓ Same slicer (or very close family)
 - ✓ Same printer and filament
 - ✓ Same supports, orientation, plate, etc.
- Best for collaboration within the same slicer ecosystem.*

WHEN TO SEND G-CODE

- ✓ Same printer model
 - ✓ Same nozzle size
 - ✓ Same filament type
 - ✓ Same setup
- Use with caution.
Not portable.*

KEY TAKEAWAYS

- ★ STL = "Here's the part."
- ★ Project file = "Here's how I planned to print the part."
- ★ G-code = "Here's how my machine will execute the plan."
- ★ A .3MF file is just a container.
The project inside belongs to the slicer that created it.
- ♦ Share the design. Let everyone print it their way.





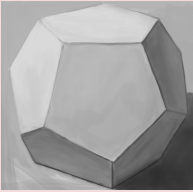
Process Nomenclature

1. D _____

2. S _____

3. P _____

4. I _____



5. (T _____)
6. (F _____)
7. (O _____)

.STL

9. (C _____)
10. (S _____)

.gcode

(_____)
Your choice

12. F _____

8. ST _____ L _____

11. G _____

13. O _____

CLASSES
OCCASIONALLY

(Speedy-G)
(Arriba)
(Lost 'Cuz)
(Trey)
(CHEWY)

(GRUMPY)
(MsKEISHA)
(ROCKET)
(The PLASTICS)
(GROOT)
(SUIGIN)

Build Your Own 3D Printer class

2

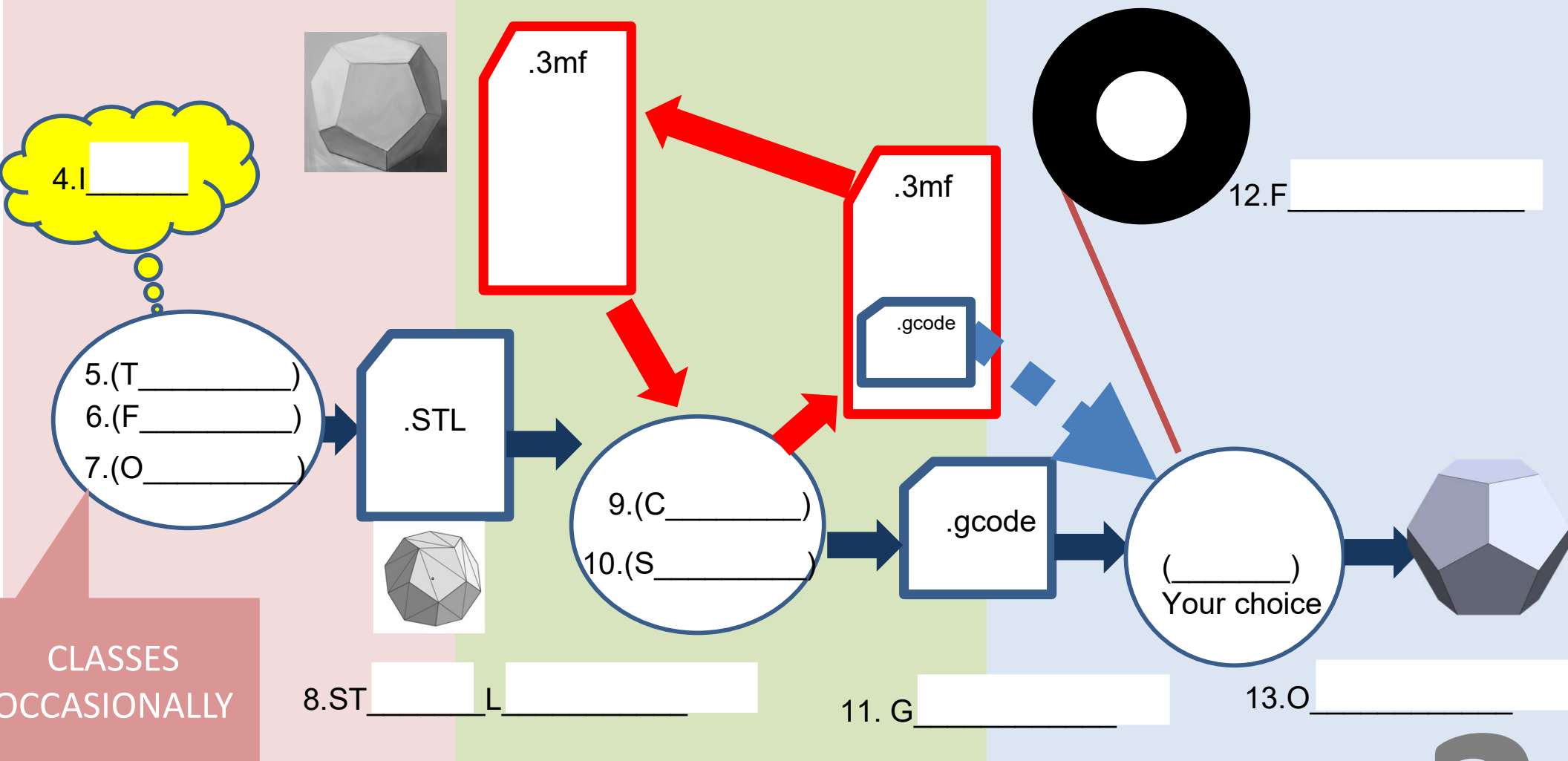


Process Nomenclature

1. D _____

2. S _____

3. P _____

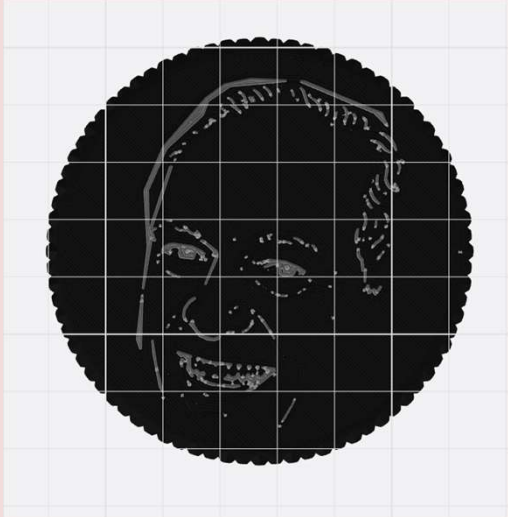


Build Your Own 3D Printer class



Stl vs. 3mf – TEST CASES

FACE ON TEE STORAGE BOX



KINETIC BALL LOGO



JIMMYJOHN EMBELLISHMENTS





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