MakerSpace

3D Designed Planters

Follow the steps below to make your own 3D planter!
This is a beginner-friend activity for ages 8-18.

Supplies:

- Maker world (free account)
- Tinkercad (free account)
- Computer with WiFi
- Creativity & fun

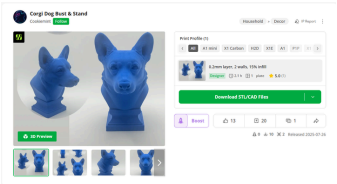
Step 1: Find model on Maker World

Maker World Beta

Go to Makerworld.com. Create an account.

Search for: An object with enough height and depth, like a bust, to give room for plant and soil - No flat objects. Part of the top (or head) will be removed for the plant, so think how that will affect the model. A base that is already flat is required.

Step 2: Verify Model



Click on a model that you like.

Verify that it has a print profile.

Does it have ratings? Are they good?

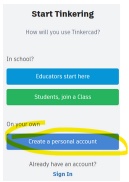
Does it have an X1 Carbon option? Is the print time under 2 hours?

Step 3: Download & Tinkercad

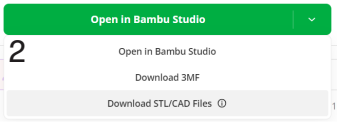
1 X1 Carbon

Click on the model. Click on X-1 Carbon.

3

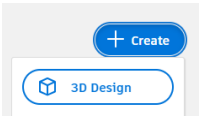


Go to Tinkercad.com. Sign into Makerspace account.



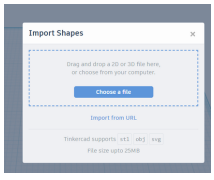
Click the green arrow. Choose download STL.

4

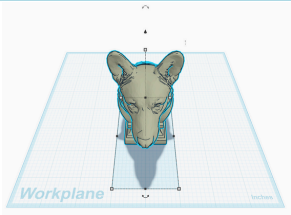


Create a new 3D Design. Title the design with your first name and last initial.

Click on Import → Choose File. Browse for your STL file.



Click on the white circles around the object to resize it so it is no larger than 4 in. x 4 in. x 4in.



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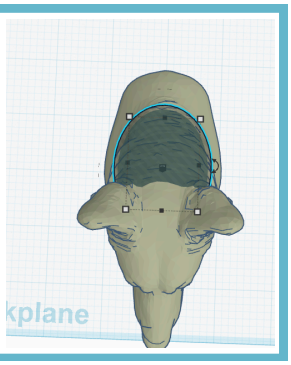
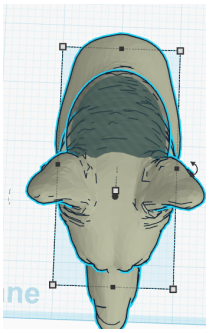
Step 4: Add hole

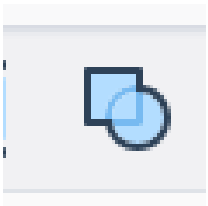
Click on the “hole” cylinder. Drag it onto the workspace.

Use the white circles to adjust the size. Using Black arrow, lift object into deepest section. Make sure the “hole” doesn’t go through bottom.



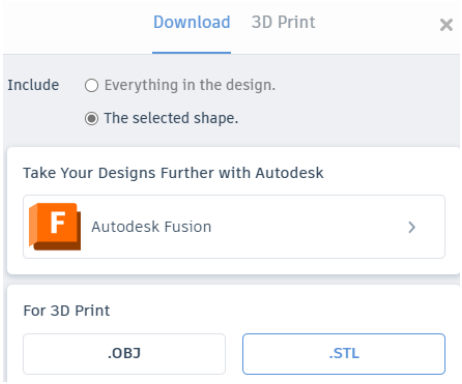
Step 2: Group object





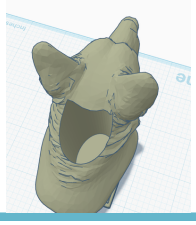
Drag a box around everything with your mouse. Click Union Group.

Step 3: Download



Verify that the hole is correct on all sides and angles of the shape. Deselect all. Click Export → STL.

Go to https://tinyurl.com/cppl3dprints.
Submit a 3D print request with ALL files.
We will email you when it’s ready.



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