

3D PRINTING: DAY 1

JUNE 8, 2015

RUTGERS MAKERSPACE

PREMADE MODELS

GrabCAD.com

- For engineers, by engineers
- Example: <https://grabcad.com/library/phone-kickstand-1>
- May require other software to use some models
 - SolidWORKS
 - AutoCAD

GRABCAD Community Workbench Resources Blog Search community Log in

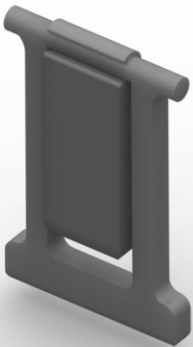
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Phone Kickstand

SOLIDWORKS 2014 Rendering

By [Ryan Bellaver](#) on December 02, 2014 16:47 in [3D printing](#) [Components](#) [Just for fun](#)

Overview Files Updates

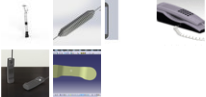


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Total downloads	19
Total comments	0
Total pins	0
Total renderings	2
Total likes	0

Similar models



More by Ryan Bellaver



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This kickstand can be easily assembled in two pieces that snap fit together. The kickstand mount can be easily attached to your phone with a 3M command strip that has a load capacity of .5 lbs. This was designed to be easily 3D printable.

PREMADE MODELS

Thingiverse.com

- By MakerBot, simpler – for anyone!
- Example: <http://www.thingiverse.com/thing:683053>
- Will download as .STL files
 - MakerBot-ready
 - Can easily convert to .gcode for Orion printer

The screenshot displays the MakerBot Thingiverse interface. At the top, the navigation bar includes 'MakerBot Thingiverse', 'DASHBOARD', 'EXPLORE', 'CREATE', a search bar, and 'SIGN IN / JOIN'. The main content area features a user profile for 'faceted cat' by andresrojas, published on Feb 15, 2015. The central image shows four 3D printed cat figurines in black, blue, orange, and purple. To the right, a sidebar lists interactions: Like (104), Collect (151), Comment (1), I Made One (6), Remix It (0), and Share. A blue button labeled 'Download This Thing!' is positioned below the sidebar. Below the main image, a row of five small thumbnails shows different views of the cat model. At the bottom, a table provides details about the model:

File Name	Downloads	Size
 gato_3.stl Last updated: 02-15-15	1287	507kb

Below the table, a Creative Commons Attribution license is displayed, indicating that the model is licensed under CC BY.

BONUS: SCAN YOUR OWN

123D Catch (by AutoDesk)

- Smartphone app (Apple, Android, Windows)
- How it works: <http://www.123dapp.com/howto/catch>



MAKE YOUR OWN (SIMPLE)

TinkerCAD.com (by AutoDesk)

<https://www.youtube.com/watch?v=MwjWT-EvKSU>

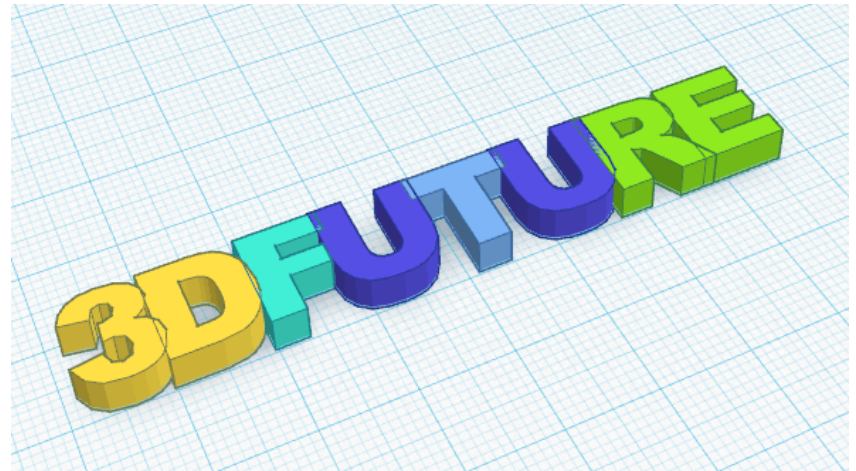
1. Make AutoDesk account

- ProTip: use university email address (@____.edu) if you have one

2. Break into groups, complete the Lessons (1-4) <https://www.tinkercad.com/dashboard/lessons>

3. Design a team logo

- Don't forget to Save!



PC TO 3D

MakerWare (for MakerBot)

- **FREE** download from makerbot.com

Matter Control (for multiple other printers, including Orion)

- **FREE** download from mattercontrol.com

