

The Basics of Designing 3D Models with Free Autodesk 123D Software

Dr. Shaunna Smith

Texas State University

sfs36@txstate.edu @ShaunnaSmith365

EASY ACCESS TO ONLINE 3D MODELS

Academic Sources

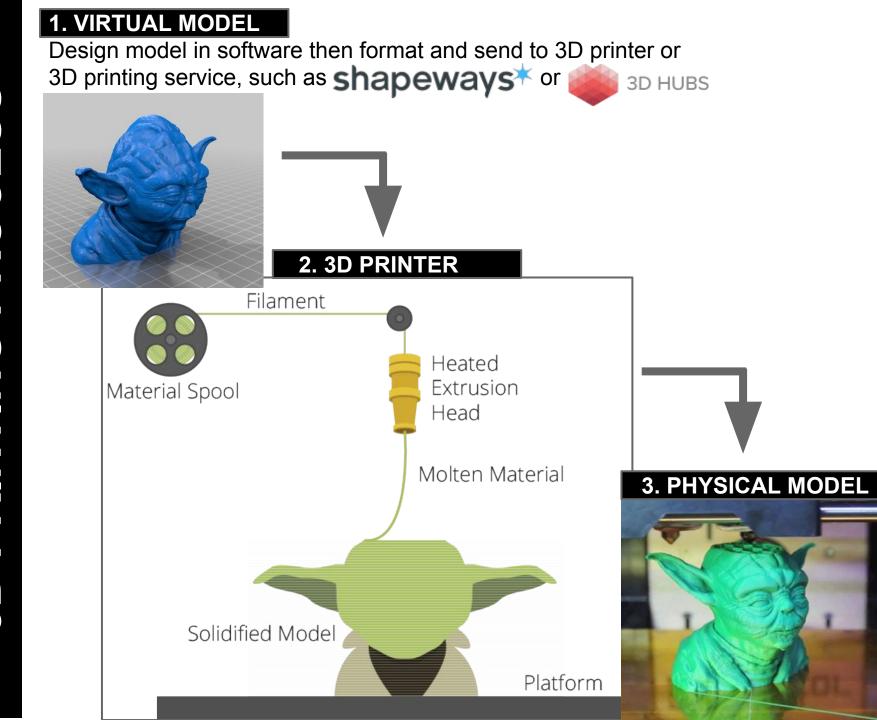


Smithsonian X 3D

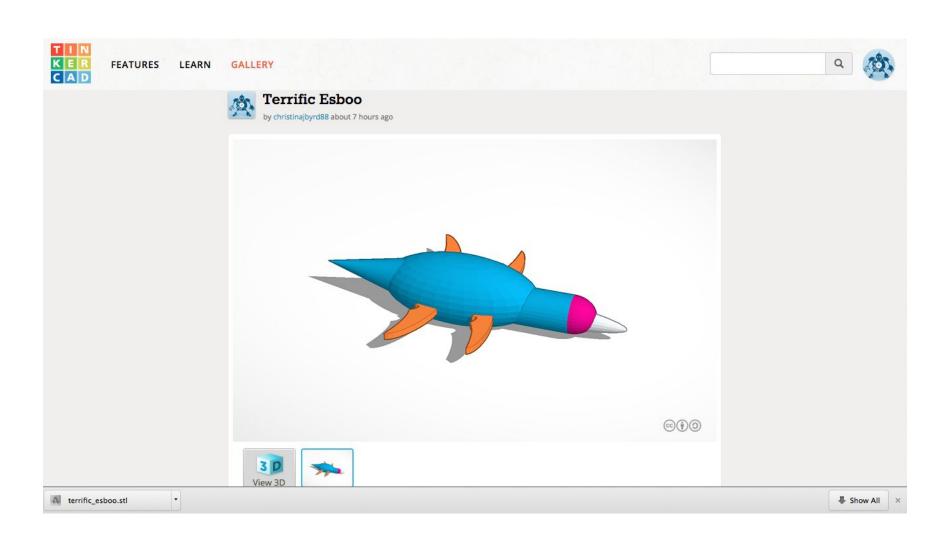
Creative Commons Sources



MakerBotThingiverse



CREATION Vs. Consumption



3D Polycotylid Plesiosaur by Christina Byrd

FREE

Autodesk 123D 3D Modeling Apps

One account, multiple tools!



Tinkercad

The easiest way to get started with 3D design online. It's web-based so no downloads are required.

Works best in Chrome.

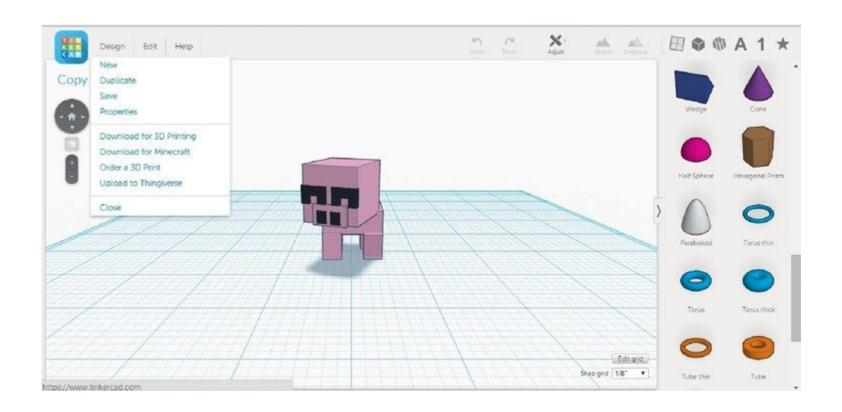


Powerful, yet simple 3D creation and editing tool. Download available for iPad, Mac, and PC.



Autodesk 123D Tinkercad

- Free, easy to use 3D modeling software
- Web-based!!! Access in an Internet browser.
- Integrates with <u>Autodesk 123D's other free apps</u>.





Interactive Demo

Hands-on experience with **Tinkercad**



Tinkercad learning guides



Autodesk 123D Tinkercad Resources

- Tinkercad website (<u>"quest" lessons and video tutorials</u>)
- "3D Printing with Autodesk 123D,
 TinkerCAD, and Makerbot" by Lydia Sloan
 Cline"
- "3D Modeling and Printing with Tinkercad:
 Create and Print Your Own 3D Models by
 James Floyd Kelly" (sample chapter)



Don't want to use a web-based app? Download Autodesk 123D Design!

- 123D Design website (<u>QuickStart guide</u>, <u>video tutorials</u>, <u>online support forum</u>)
- Shapeways' tutorial YouTube video series (<u>Beginner 3D Modeling:123D Design</u>)
- "3D Printing with Autodesk 123D,
 TinkerCAD, and Makerbot" by Lydia Sloan
 Cline"

More from <u>Autodesk 123D</u>





Autodesk 123D Catch





Autodesk 123D Make

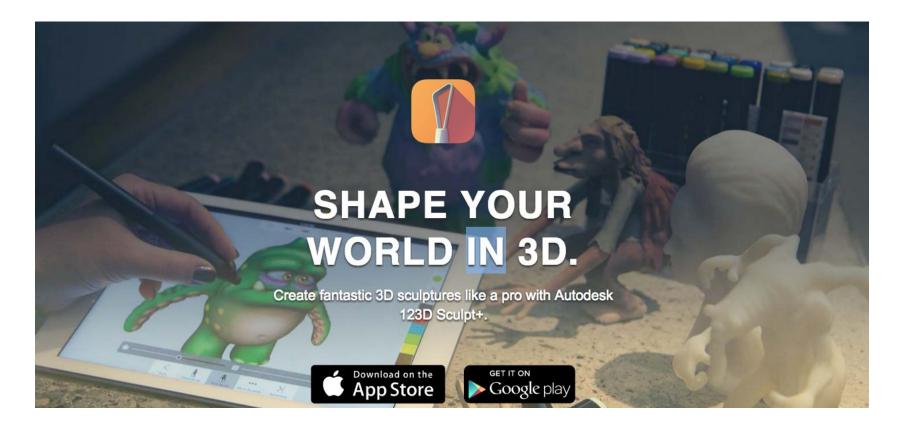
123D Make lets you turn 3D models into 2D build plans with animated assembly instructions.



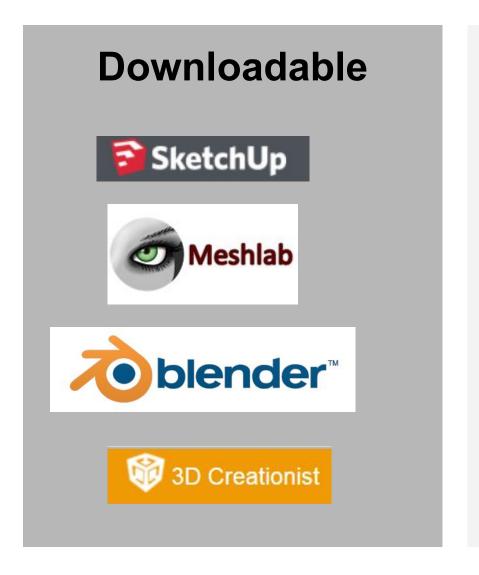




Autodesk 123D Sculpt



OTHER FREE 3D MODELING SOFTWARE



Web-based



Brainstorming

How could you integrate 3D modeling?

Q&A

Presentation: http://tinyurl.com/123Dbasics

Dr. Shaunna Smith

Assistant Professor of Educational Technology
Texas State University

sfs36@txstate.edu

@ShaunnaSmith365

http://shaunnasmith.wp.txstate.edu/

http://themakelab.wp.txstate.edu/