

print(d)

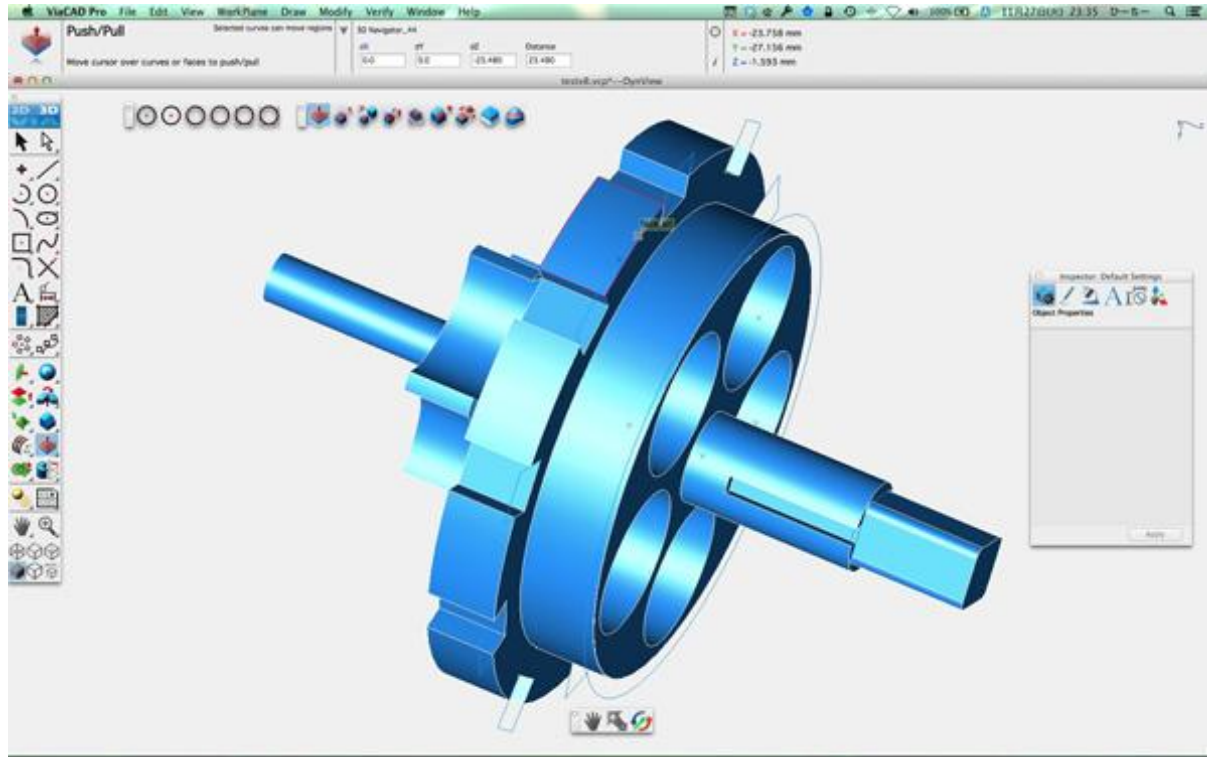
3D printing - it's as easy as 1-2-3(d)!

Adam Tremonte, Andrew Thomas, Emily Huynh, Patrick Dixon

3D printing is cool.



But 3D printing is hard.



Build Statistics

Build time: 1 hour 7 minutes
 Filament length: 3502.4 mm
 Plastic weight: 10.53 g (0.02 lb)
 Material cost: 0.48

Show in Preview

Build table Travel moves
 Toolhead Retractions

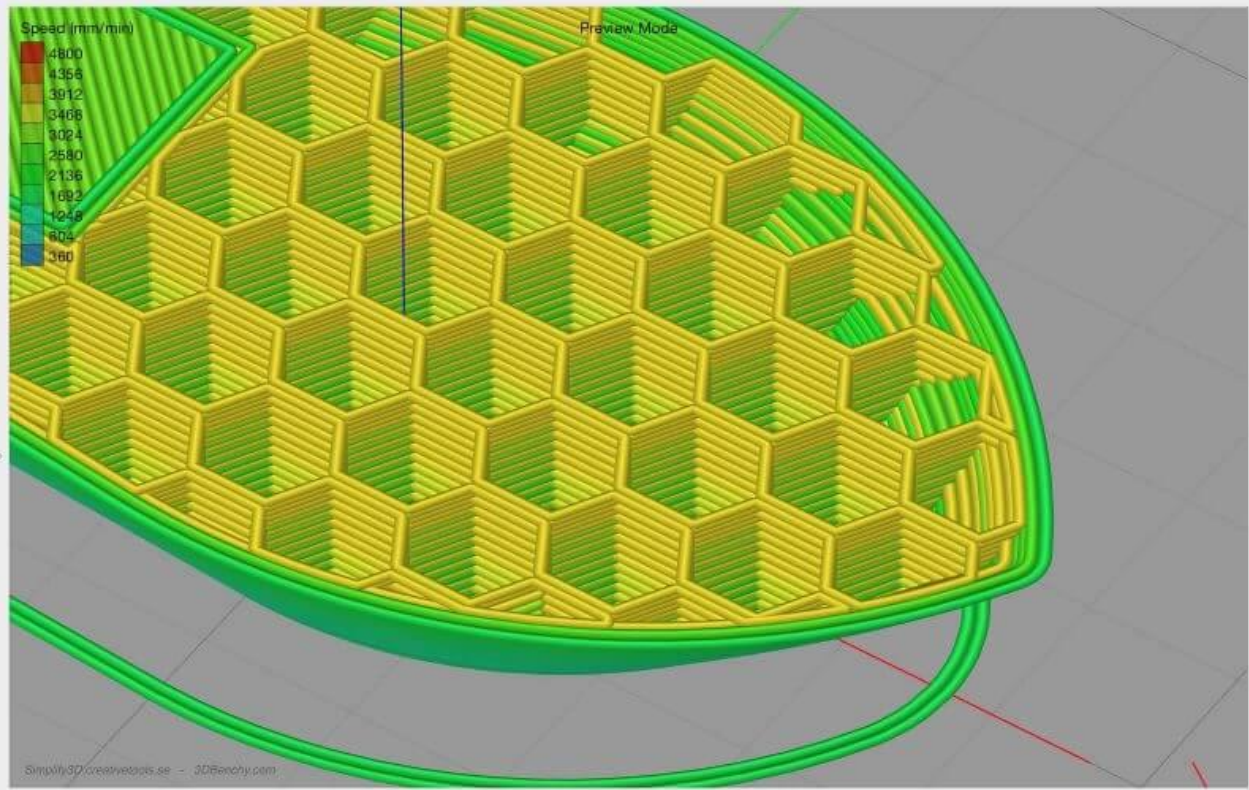
Coloring **Movement Speed**

Real-time Updates

Live preview tracking
 Update interval: 5,0 sec



Exit Preview Mode



Preview By: Layer Line

Speed:

Start: End:

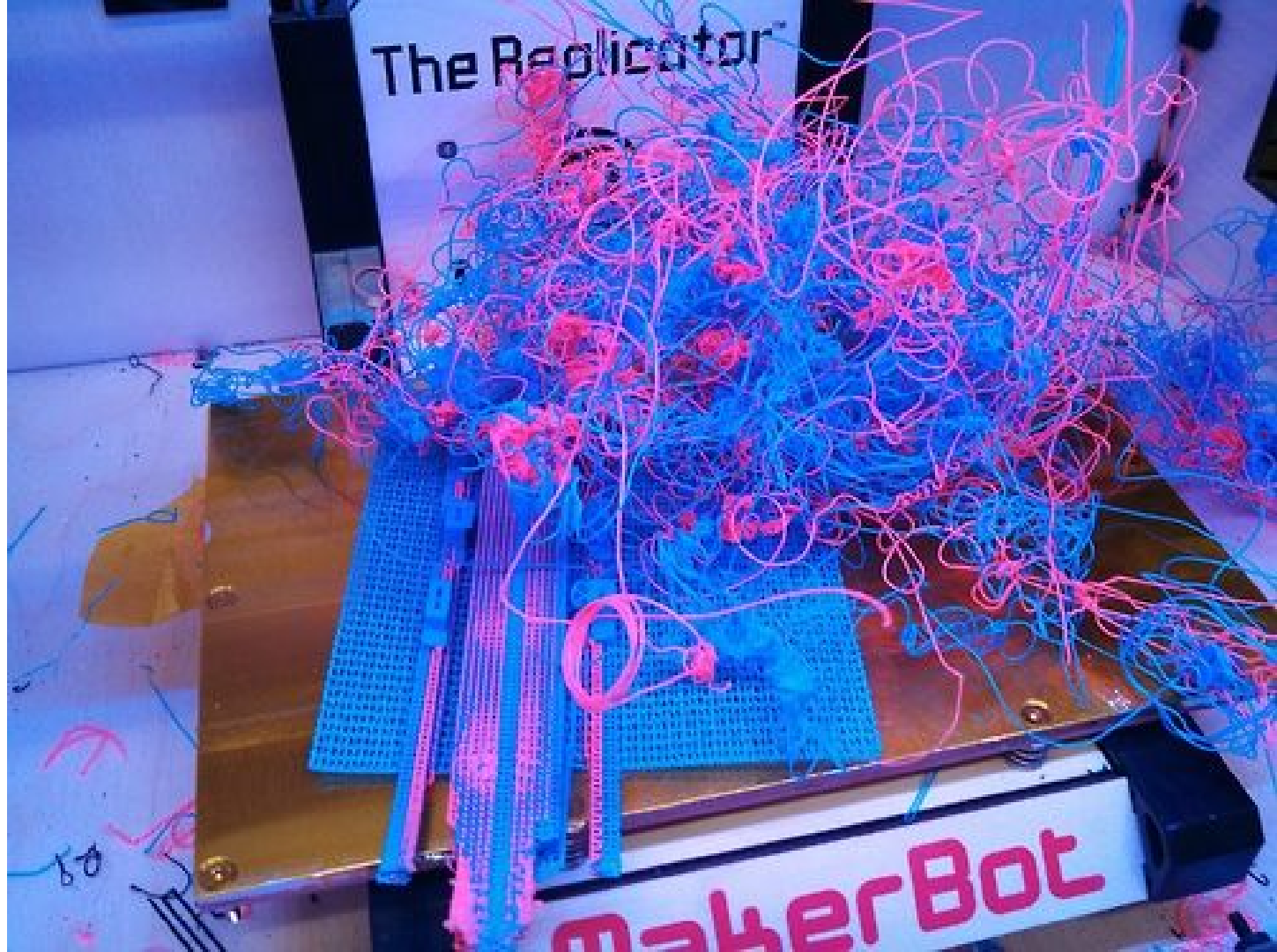
Single layer only

Play/Pause

The Replicator™

MakerBot

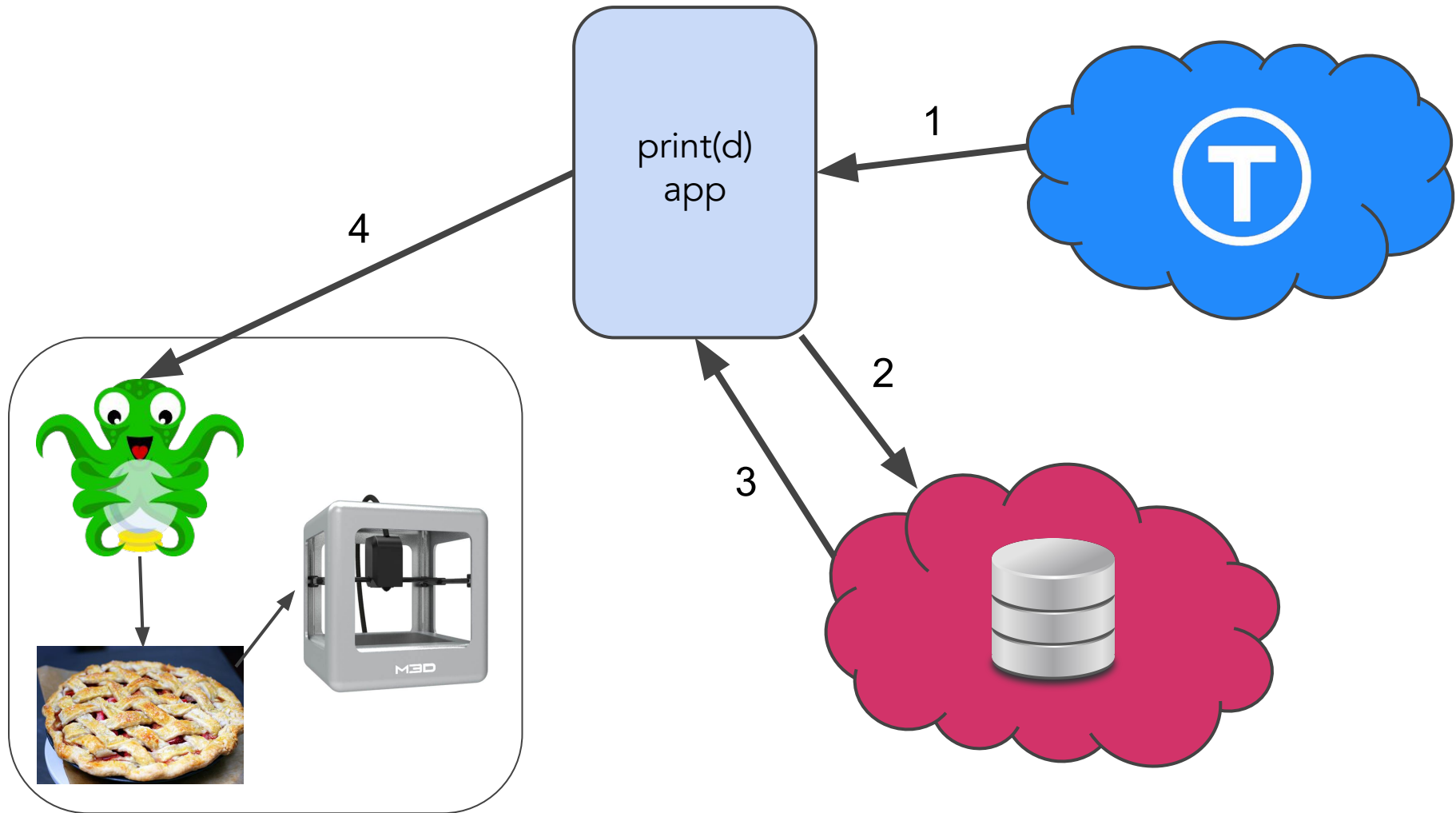
50





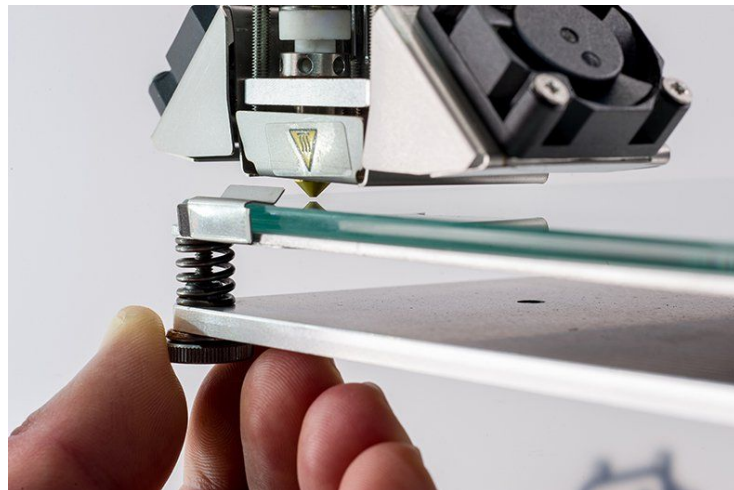
What is print(d)?

print(d) is a mobile app that allows consumers to easily print 3D models from start to finish, without any prior knowledge of 3D printing.



Goals

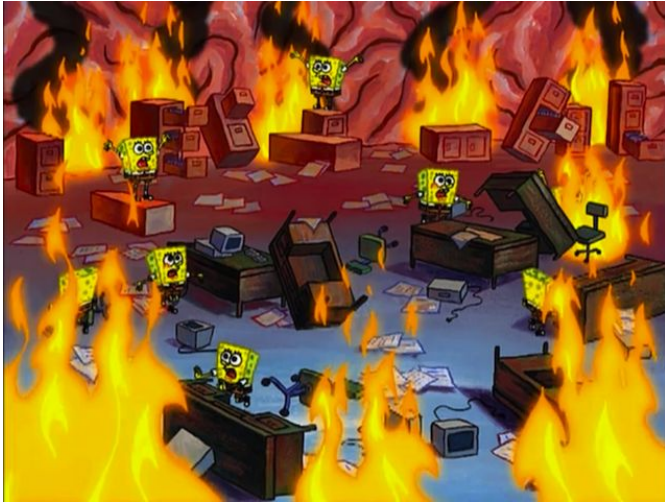
- Software assisted bed leveling
 - Needs to be done every time you 3D print
- Built in calibration prints
 - Sample prints to make sure your printer works correctly
- Print models directly from Thingiverse collections
 - Catalog of user-submitted models
- Filament tracking
 - Notifies you when you need to buy more “ink”



Potential Issues



- API communication
- Network service discovery problems
- Backend slicing server
- UX design
 - Explaining how to 3D print to beginner users





Thank you!

Any questions?