



### Proven Technology

From Fortune 500 companies and Ivy League schools to makers and hackers, people around the world rely on LulzBot 3D printers to get the job done. Thanks to our global community of developers, at Aleph Objects we offer proven solutions that have been thoroughly tested by the **Open Source** community. From the firmware down to our bill of materials, you can see how it all works for your projects, curricula, commercial products, and much more. We can't wait to see what you do next.

### Open for All

Frustrated by the status quo, we started a company that respects your freedom to get the job done. Our robust LulzBot products embody the spirit of the **Free Software and Open Source Hardware** movements. We are proud to partner with the Open Source Hardware Association (OSHW.org) and offer the first hardware product, and still the only 3D printer, certified by the Free Software Foundation (FSF.org) to **Respect Your Freedom**. We are committed to putting the power back in your hands. That's why our products come complete with printer designs, specifications, and documentation so your machine can be modified and upgraded as we advance technology together.



### Your Role

Have something to share? We value and regularly incorporate community feedback and would love to hear it. Like you, **we believe in freedom** of expression, and your feedback will be respected and heard.

### About Aleph Objects, Inc.

LulzBot is a product line of Aleph Objects, Inc., a **Free Software and Open Source Hardware** company founded in January 2011 and headquartered in Loveland, Colorado, USA. LulzBot 3D printers, parts, and materials.

### LINKS

#### MATERIALS

LulzBot.com/catalog

#### SOURCE FILES

GitHub.com/AlephObjects  
download.LulzBot.com/Mini  
devel.LulzBot.com  
OHA1-kit.alephobjects.com

#### SOCIAL MEDIA

Twitter.com/LulzBot3D  
Facebook.com/LulzBot  
Plus.Google.com/+LulzBot3D  
YouTube.com/user/LulzBotVideo  
LinkedIn.com/company/lulzbot  
#rocktopus

#### COMMUNITIES

forum.LulzBot.com  
forums.RepRap.org  
Reddit.com/r/3Dprinting

#### FREE SOFTWARE

FreeCADweb.org  
Blender.org  
OpenSCAD.org

#### FREENODE IRC

#RepRap

#### VISIT US

AlephObjects.com  
LulzBot.com

LulzBot Mini: Front 3/4 View



### FILE TYPES

#### STL

Standard Tessellation Language - A file format that contains the surface geometry of a three dimensional object with a triangulated surface, commonly used in 3D printing.

#### OBJ

The Wavefront OBJ file format is a simple data-format that represents 3D geometry. OBJ files may also contain texture-mapping information.

#### AMF

Additive Manufacturing File - An open standard file format for 3D printing. An AMF can represent one object, or multiple objects, as a triangulated mesh. Unlike its predecessor STL format, AMF has native support for color, materials, lattices, and constellations.

#### G-code

A numerical-control programming language that tells your 3D printer how to create your object.

### TERMINOLOGY

#### SLICING

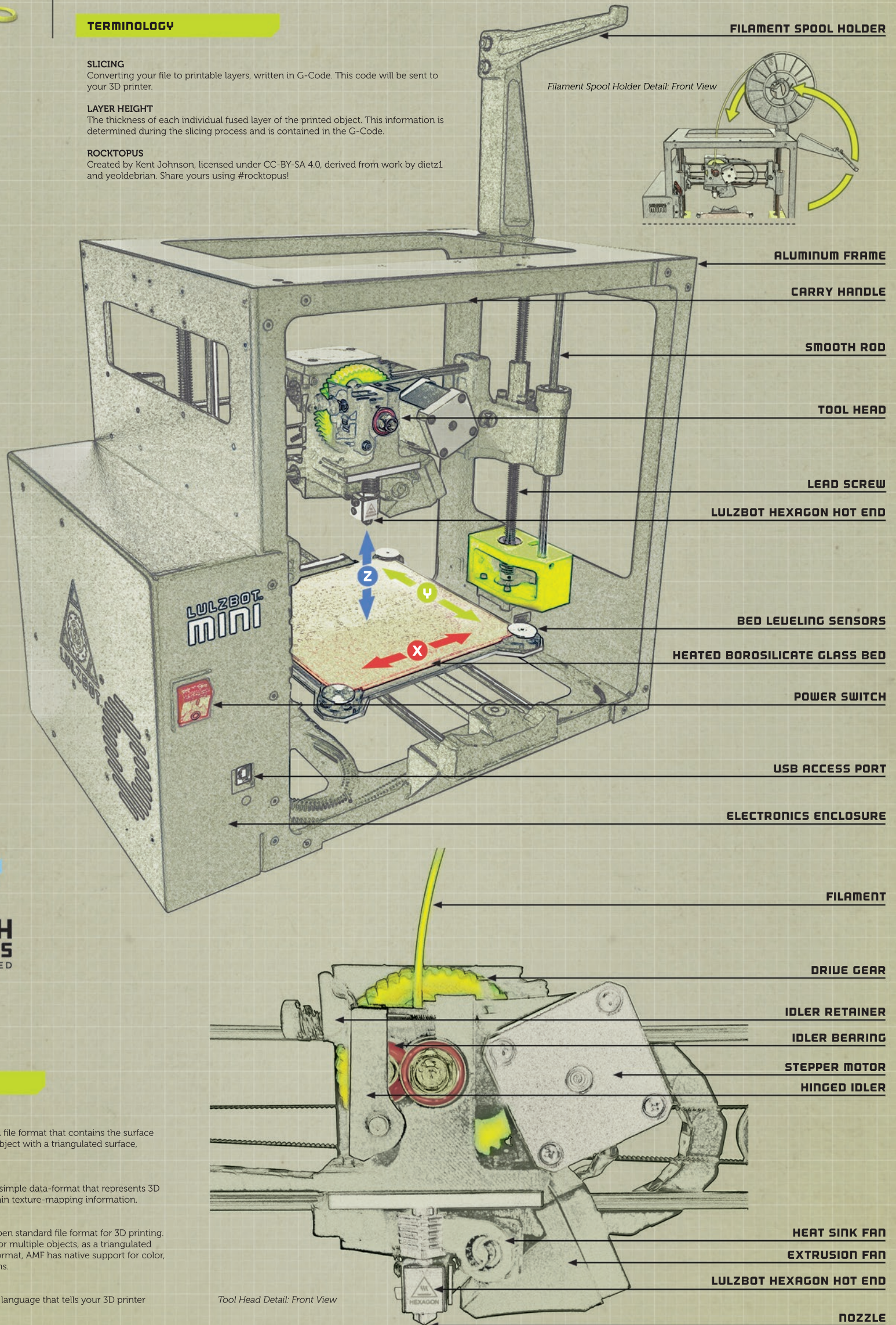
Converting your file to printable layers, written in G-Code. This code will be sent to your 3D printer.

#### LAYER HEIGHT

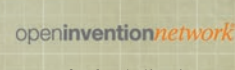
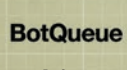
The thickness of each individual fused layer of the printed object. This information is determined during the slicing process and is contained in the G-Code.

#### ROCKTOPUS

Created by Kent Johnson, licensed under CC-BY-SA 4.0, derived from work by dietz1 and yeoldebrian. Share yours using #rocktopus!



Tool Head Detail: Front View



Blender

BotQueue

Cura

Debian

FreeCAD

GNU

Marlin

OctoPrint

Open Invention Network

OpenSCAD

Open Source Hardware

Printrun

RepRap

Slic3r

Ultimachine