



jeremyblum.com



sciguy14



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OPEN SOURCE

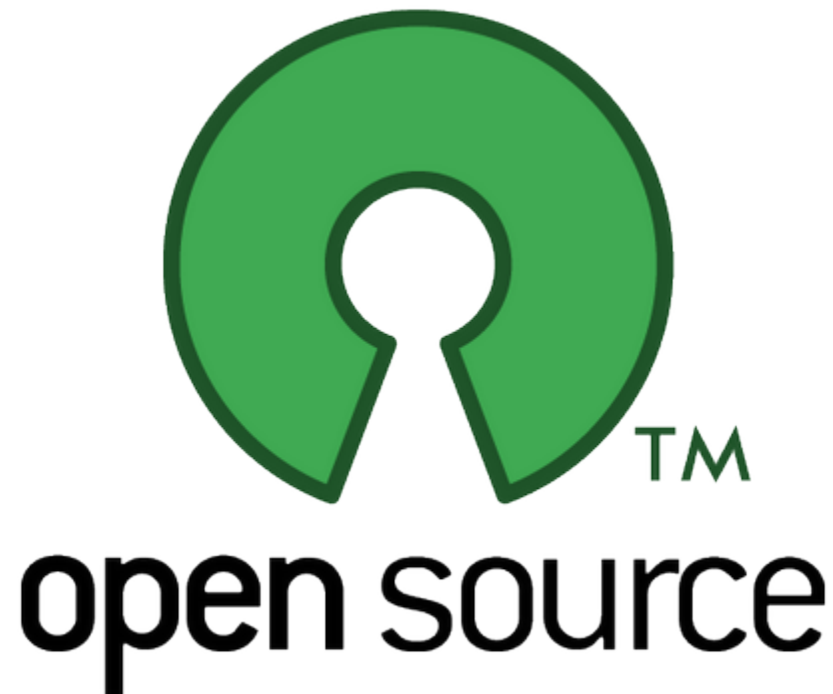
JEREMY E. BLUM

**CORNELL ELECTRICAL AND COMPUTER ENGINEERING '12
FREELANCE BLOGGER, MAKER, "TUTORIALIZER"
SUMMER FELLOW AT MAKERBOT INDUSTRIES**

What is Open Source?

Access to the information necessary to make the final product.

Ex) source code (not hex), schematics, parts lists, idea sketches, etc



Open Source Hardware

Brand new concept with new needs

Leaders: Sparkfun, Adafruit, Buglabs, Makerbot, Arduino, MIT Media Lab, Hackerspaces



open hardware



Open
Hardware
Summit
2010

Protecting Yourself

Even when released open source, a project is
STILL YOURS

With proper licensing, you maintain intellectual
property rights (within limits)

Not true of Public Domain Releases

Available Licenses



- Most Widely Used
- © Derivatives must reuse license (+ Share Alike and reciprocity)
- Free(dom) Software
 - 0: The freedom to run the program for any purpose.
 - 1: The freedom to study how the program works, and change it to make it do what you wish.
 - 2: The freedom to redistribute copies so you can help your neighbor.
 - 3: The freedom to improve the program, and release your improvements (and modified versions in general) to the public, so that the whole community benefits.

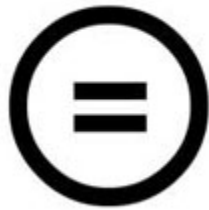
Available Licenses



FreeBSD®

- Permissive Free Software
- Redistributions of source code must retain copyright notice, this list of conditions and disclaimer
- Redistributions in binary form must reproduce the copyright notice, this list of conditions and disclaimer in the documentation and/or other materials provided with the distribution.
- Used by companies like Apple, Juniper Routers

Available Licenses



- Variable Licenses with options and supporting legal code
 - Attribution
 - No Derivatives
 - Share-Alike
 - No Commercial Use

Available Licenses



- No intellectual property rights
- Derivative works flourish
- There are 430 movies based on Shakespeare books

What I Use



- Complex Projects
- Original Ideas
- Novel Algorithms
- Any Derivative CC works



- Supporting Tutorial Materials
- Smaller Projects
- Code Snippets



open hardware

- Printed Circuit Board Designs
- Schematics
- CAD Files

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