#### Advice and Free Tools for Drawing Circuit Schematics

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### **General Advice**

Making nice circuit diagrams is a bit of an art form. These <u>very helpful guidelines</u> comes by way of the legendary Horowitz and Hill. Also, see this wonderful list (engineering rant?) on <u>stackexchange</u> about how to make good schematics

### Schematic Editor Tools—some with PCB layout

<u>Schemeit</u>: (http://www.digikey.com/us/en/mkt/scheme-it.html)

-html based, very easy to use

-sign-in to digikey account (free) in order to save drawings as pdfs

-universal favorite of circuits alumni

## EagleCAD (https://www.autodesk.com/products/eagle/free-download)

-professional level schematics and PCB layout (used in the 'real world') -massive library of parts

-a learning curve to climb, fairly easy to learn (great tutorial from Sparkfun here)

# <u>**CircuitLab</u>**: (https://www.circuitlab.com)</u>

- html based schematics
- includes circuit simulator
- sign-up for free account to save/download drawings

## <u>Schematics.com</u> (www.schematics.com)

-web-based interface, easy to use

- -can save and share designs, and export good quality .png
- -have to sign up/sign in with google/fb/etc.

<u>KiCAD</u>: (kicad.org) new open-source kid on the block. Schematic editor and PCB layout both available. Becoming more popular and common as bugs are ironed out.