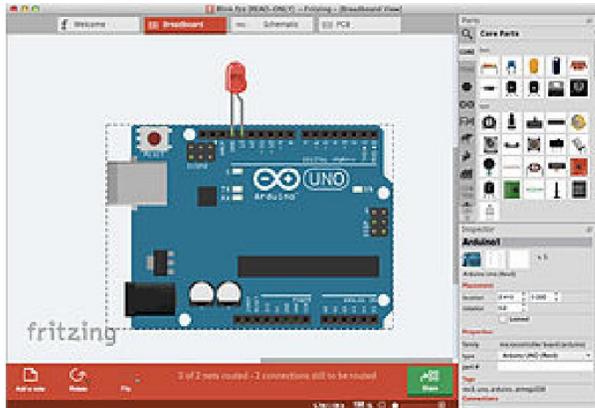


Fritzing

Fritzing Software



Fritzing's breadboard view

Developer(s) Interaction Design Lab Potsdam

Stable release 0.9.4 / December 1, 2019; 2 months ago

- github.com/fritzing/fritzing-app

Repository

Operating system [Mac OS X](#), [Unix](#), [Windows](#)

Type [EDA](#)

License [GPLv3](#) (software)
[CC BY-SA](#) (component images)^[1]

Website www.fritzing.org

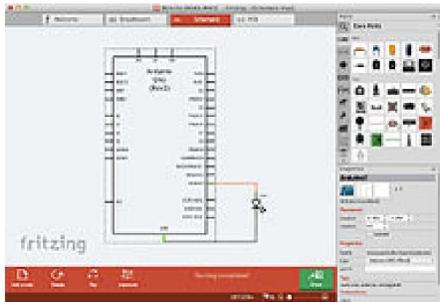
Fritzing is an [open-source](#) initiative^[2] to develop amateur or hobby [CAD software](#) for the [design of electronics hardware](#), to support designers and artists ready to move from experimenting with a prototype to building a more permanent circuit. It was developed at the [University of Applied Sciences Potsdam](#).^[3]



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Goals

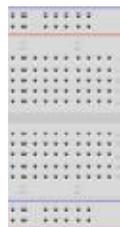
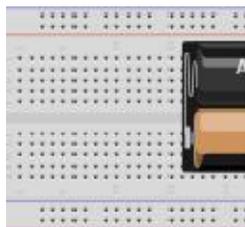


Fritzing's schematic view

The software is created in the spirit of the [Processing](#) programming language and the [Arduino](#) microcontroller^[4] and allows a designer, artist, researcher, or hobbyist to document their Arduino-based prototype and create a [PCB](#) layout for manufacturing. The associated website helps users share and discuss drafts and experiences as well as to reduce manufacturing costs.

Fritzing can be seen as an [electronic design automation](#) (EDA) tool for non-engineers: the input metaphor is inspired by the environment of designers (the [breadboard](#)-based prototype), while the output is focused on accessible means of production. As of December 2, 2014 Fritzing has made a code view option, where one can modify code and upload it directly to an Arduino device.^[5]

Component images are distributed under [CC-BY-SA](#), which will also be the license for any generated breadboard views.



Breadboard view of a simple circuit, drawn with Fritzing.



Circuit diagram of the same circuit.

Developer

The Fritzing source code is written in [C++](#) using the [Qt](#)-framework. The source code can be downloaded and edited via the [GitHub](#) repositories. The source is split in two main repositories: Fritzing-App and Fritzing-Parts.

Maker

Fritzing allows for easy creation of [printed circuit boards](#). FritzingFab enables users to order PCBs with designs made on the Fritzing software.

Additionally, the [website](#) contains a [forum](#) where users can share and comment on each other's designs.

See also

-  [Electronics portal](#)
- [Comparison of EDA software](#)
- [List of free and open source software packages](#)
- [List of free electronics circuit simulators](#)