Best Practice for Open Training Materials

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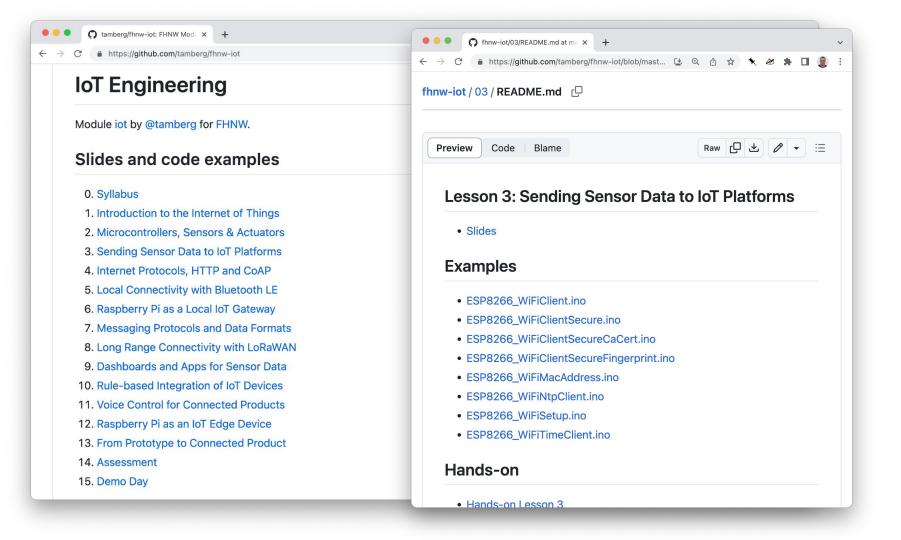
Keep it simple

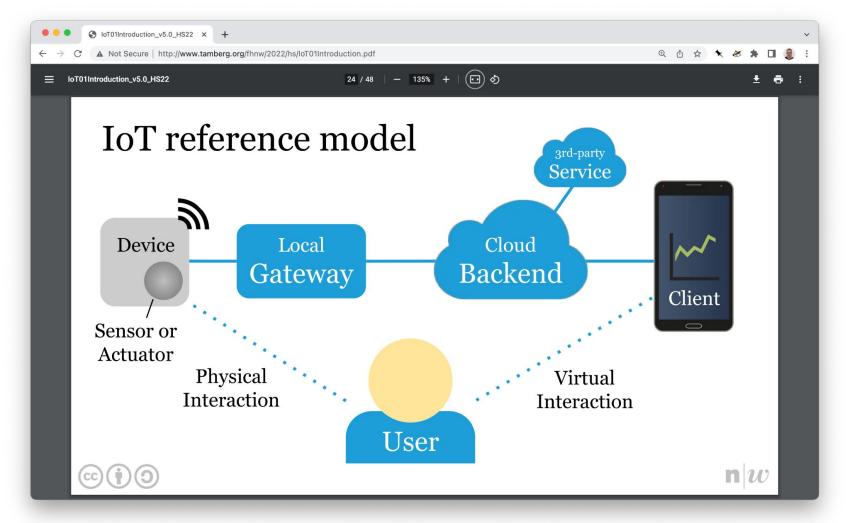
Github repo as a single point of entry.

Slides per topic / lesson, links into repo.

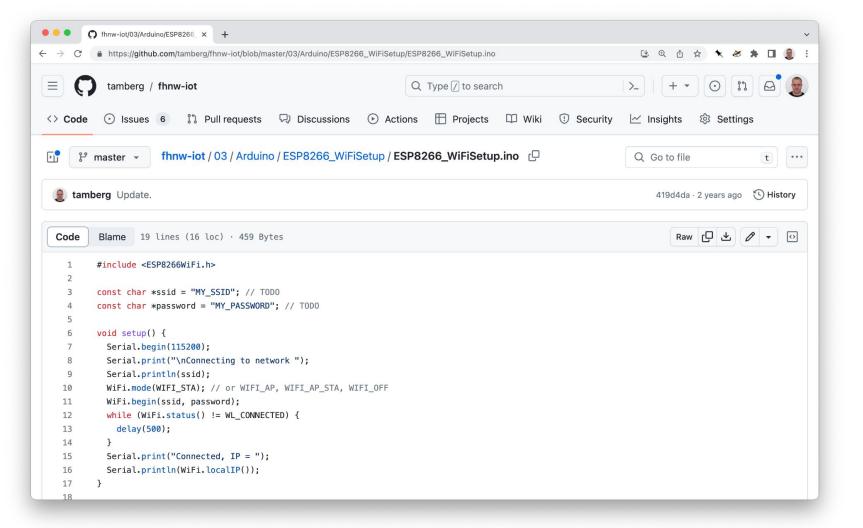
Provide short, focused, working examples.

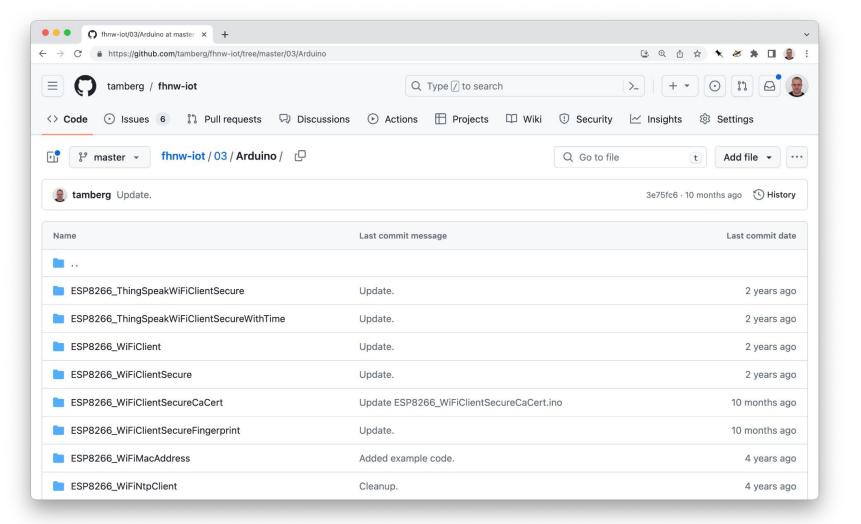
Simple to get started, possible to learn more.





```
▲ Not Secure http://www.tamberg.org/fhnw/2022/hs/loT03SensorDataPlatforms.pdf
                         7 / 36 | - 135% + | 🕞 🔕
IoT03SensorDataPlatforms_v5.0_HS22
  ESP8266 Wi-Fi setup
                                                       .1110
   #include <ESP8266WiFi.h>
   void setup() {
     Serial.begin(115200); // for debug output
     WiFi.mode(WIFI_STA); // _AP|_AP_STA|_OFF
     WiFi.begin("MY_SSID", "MY_PASSWORD"); // TODO
     while (WiFi.status() != WL_CONNECTED) {
       delay(500);
     Serial.println(WiFi.localIP());
```





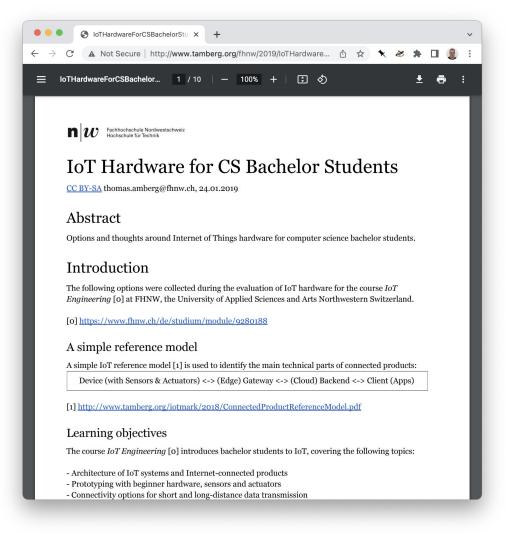
Provide support

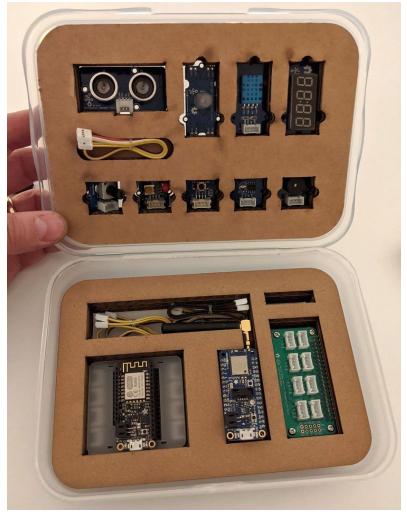
Hardware kit with MCU, basic sensors, actuators.

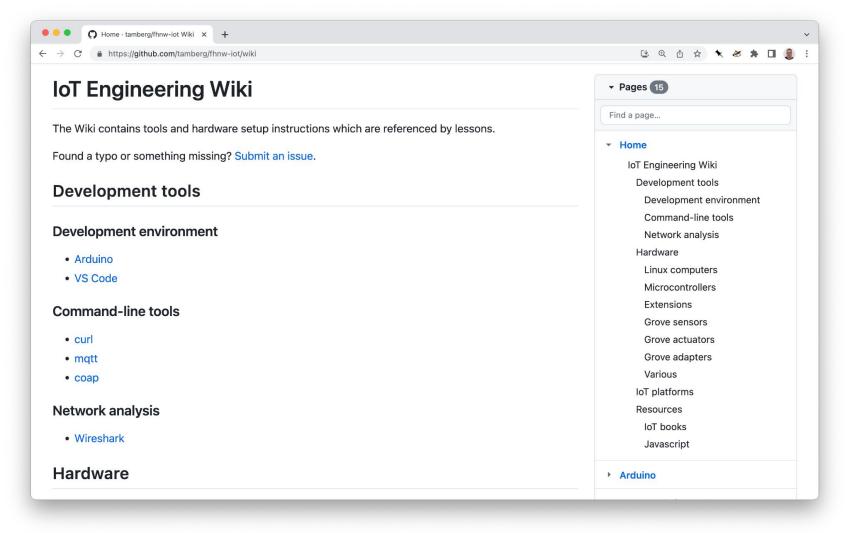
Curated Github Wiki for details and troubleshooting.

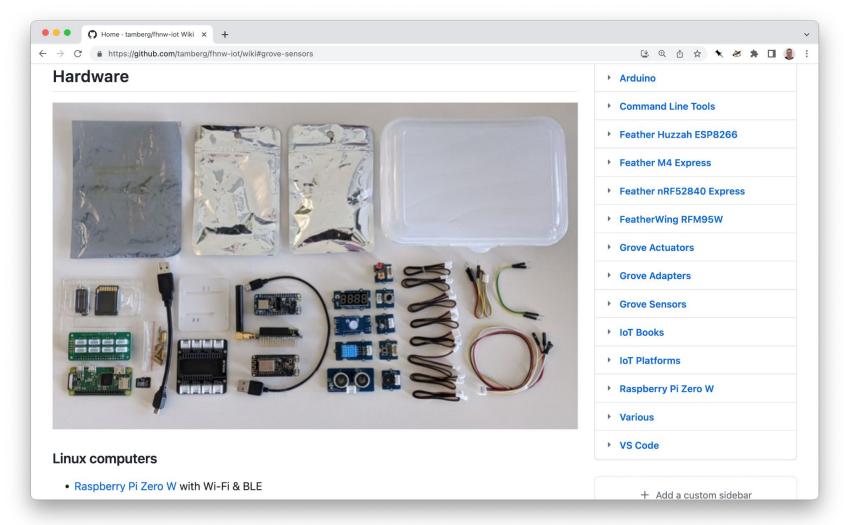
Github issues to report bugs, typos, specific fixes, etc.

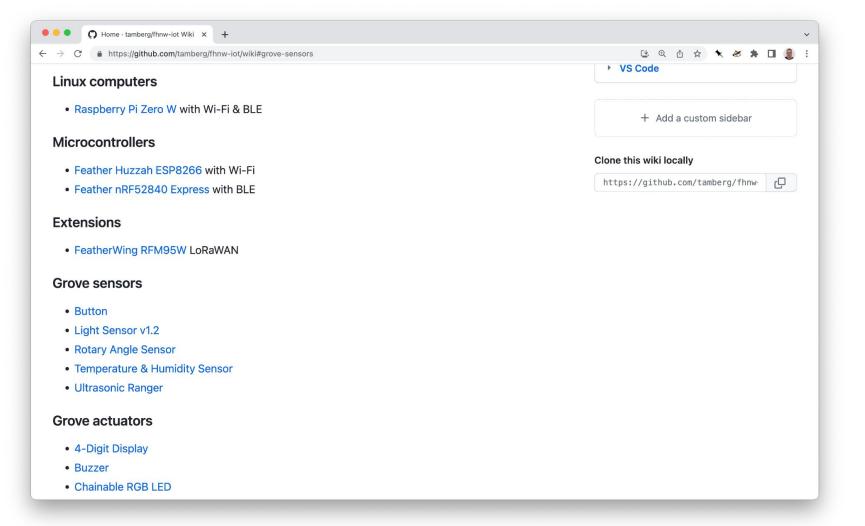
Github Classroom for individual, private copies of a repo.

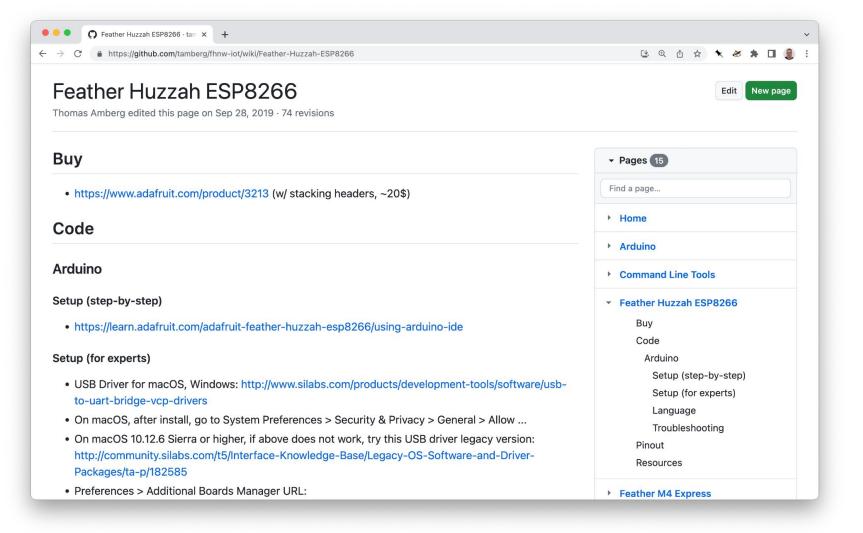


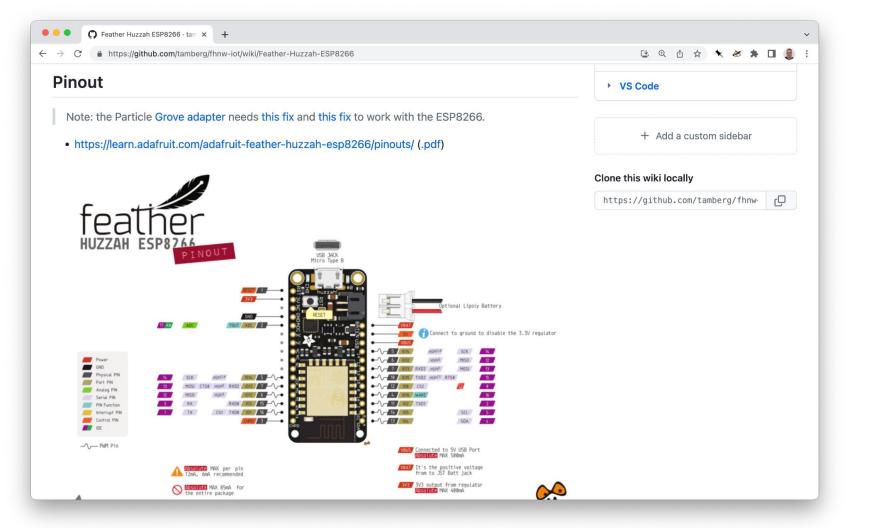


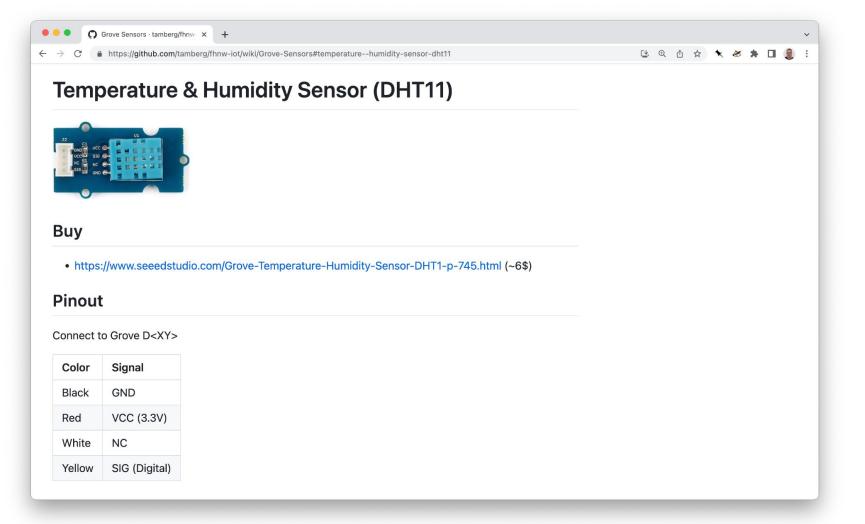


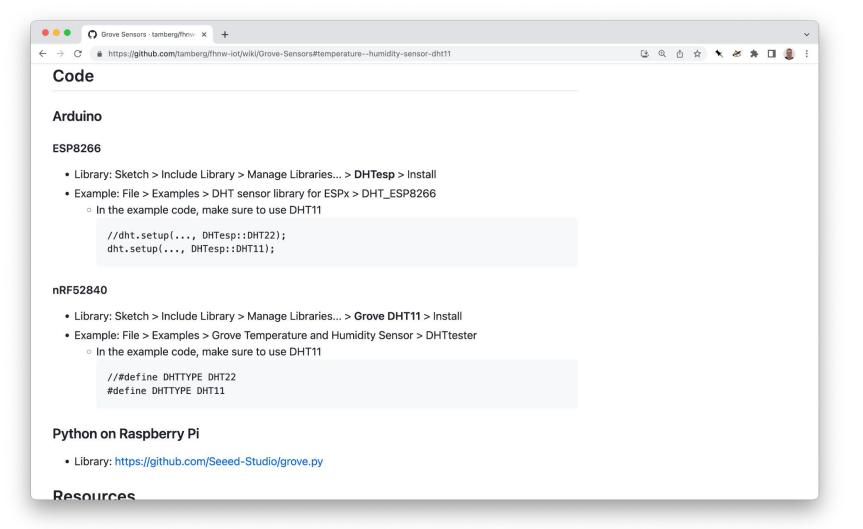


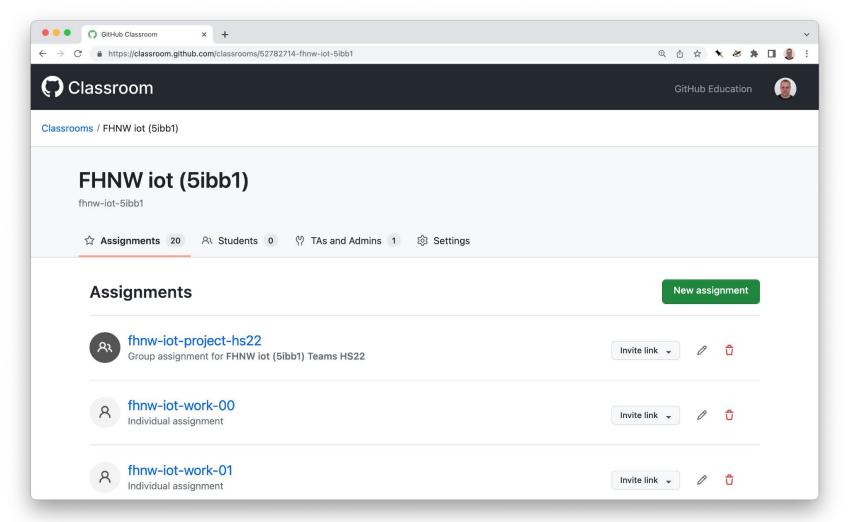


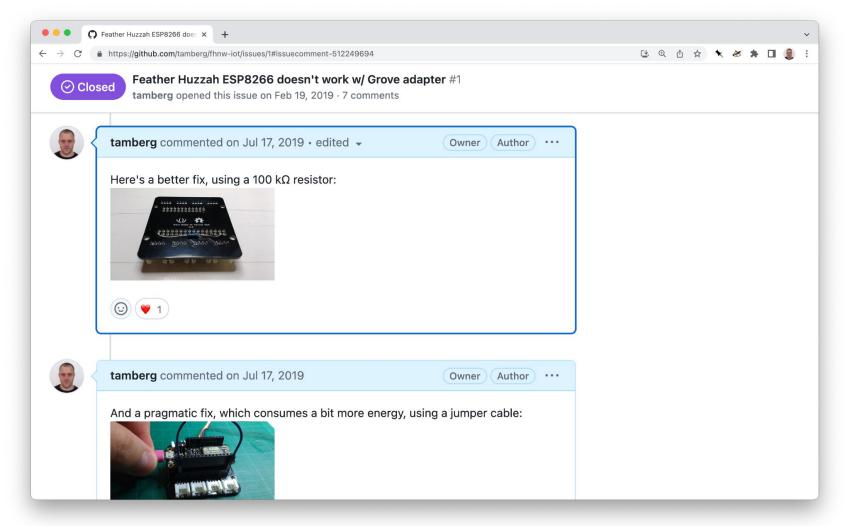














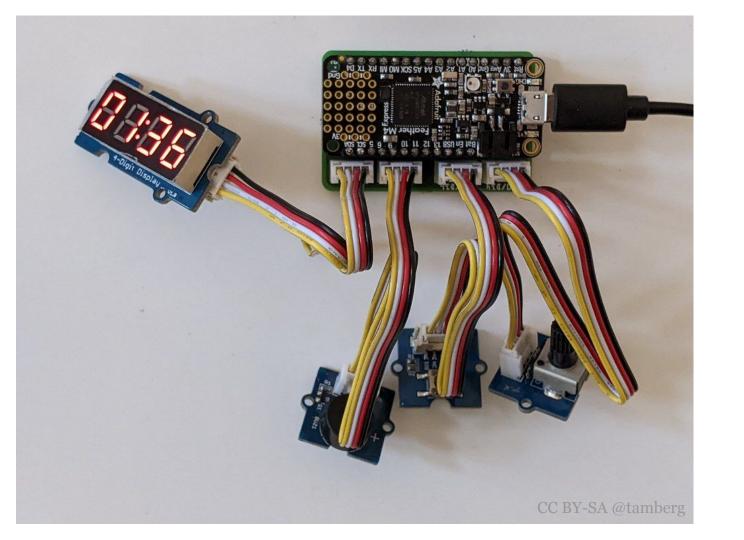
Take pictures

Reduce clutter.

Use good lighting.

Show how it works.

Always take one more.

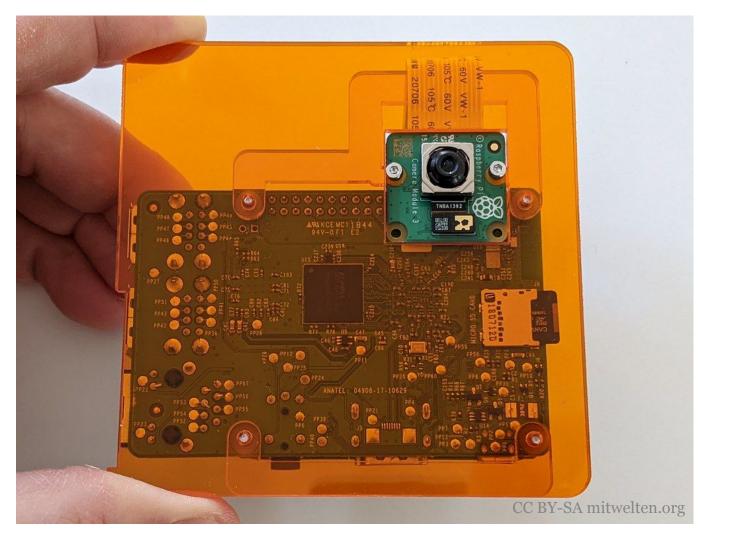












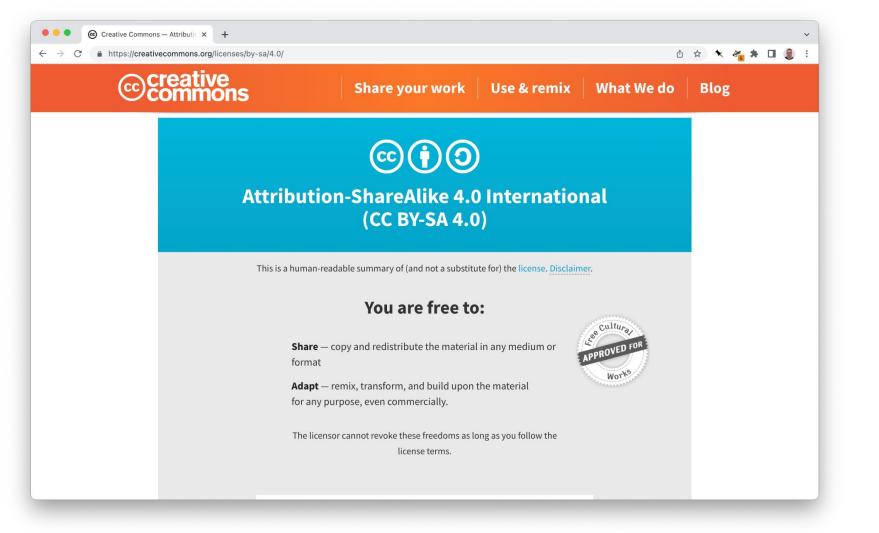
Enable reuse

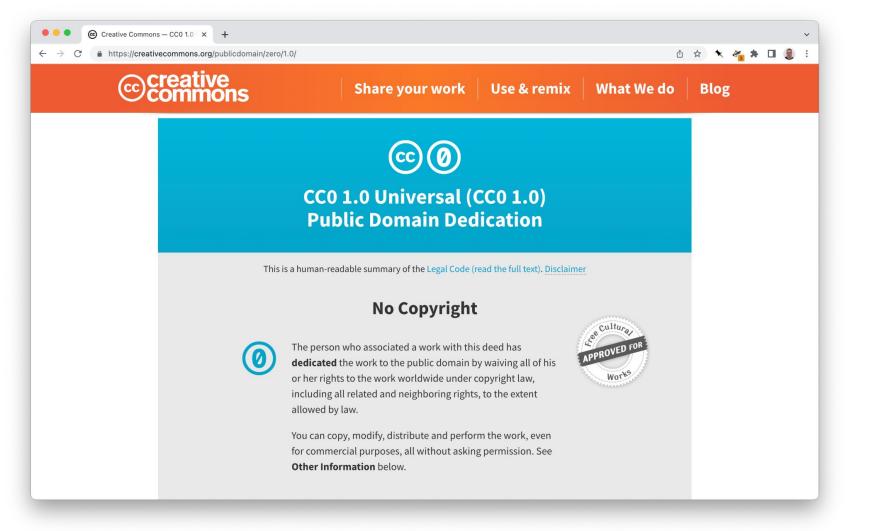
CCo 1.0 for example code.

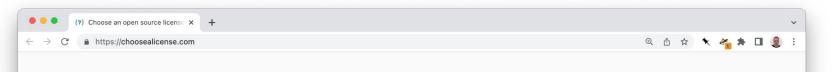
MIT license for student projects, libraries.

CC BY-SA 4.0 for slides, pictures, designs, hardware, etc.

Use open source tools, e.g. Fritzing for layouts, OpenScad for designs.







Choose an open source license

An open source license protects contributors and users. Businesses and savvy developers won't touch a project without this protection.

Which of the following best describes your situation?



I need to work in a community.

Use the license preferred by the community you're contributing to or depending on. Your project will fit right in.

If you have a dependency that doesn't have a license, ask its maintainers to add a license.



I want it simple and permissive.

The MIT License is short and to the point. It lets people do almost anything they want with your project, like making and distributing closed source versions.

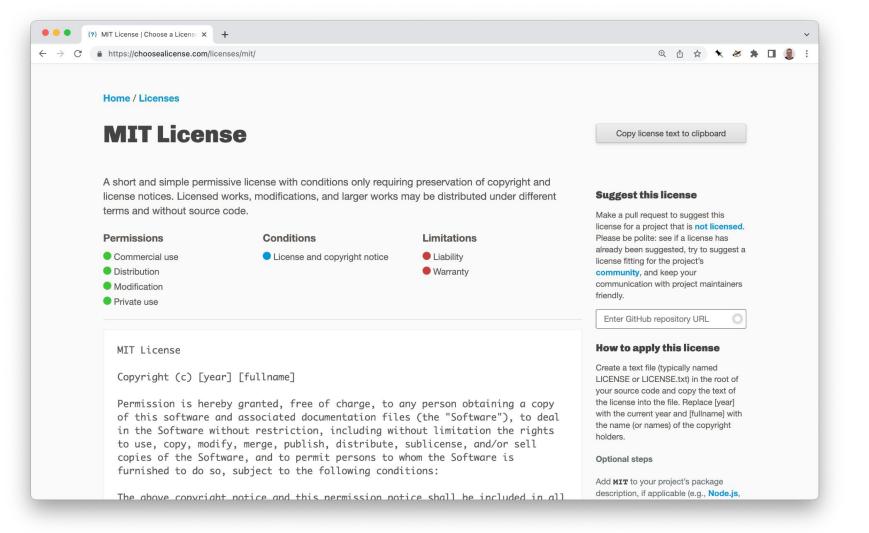
Babel, .NET, and Rails use the MIT License.

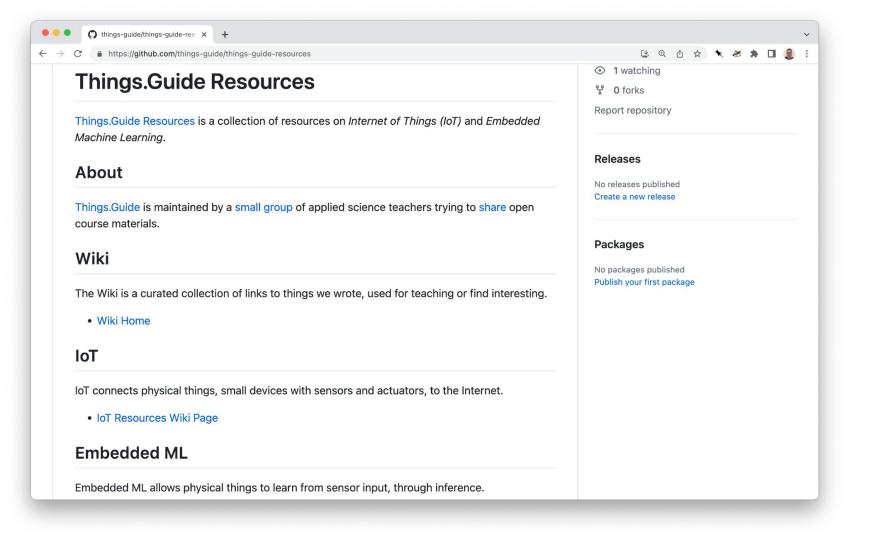


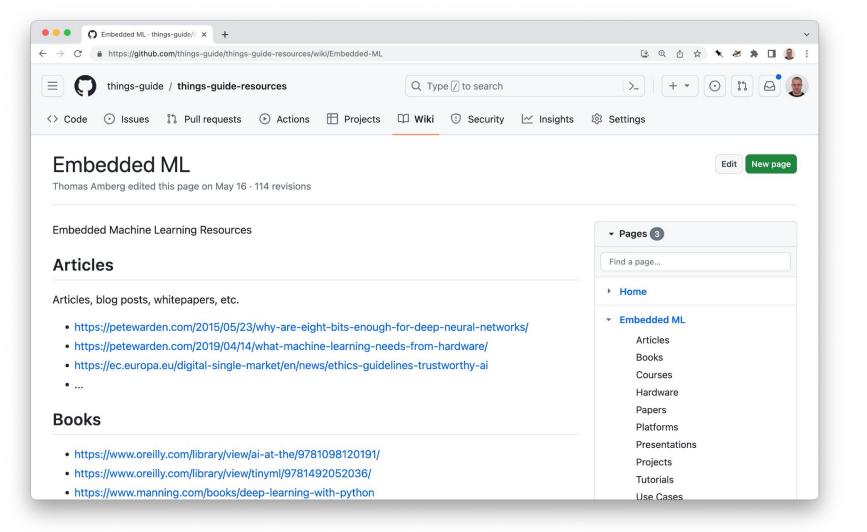
I care about sharing improvements.

The **GNU GPLv3** also lets people do almost anything they want with your project, *except* distributing closed source versions.

Ansible, Bash, and GIMP use the GNU GPLv3.







Thanks.

https://github.com/tamberg/fhnw-iot

https://twitter.com/tamberg

https://things.guide

