

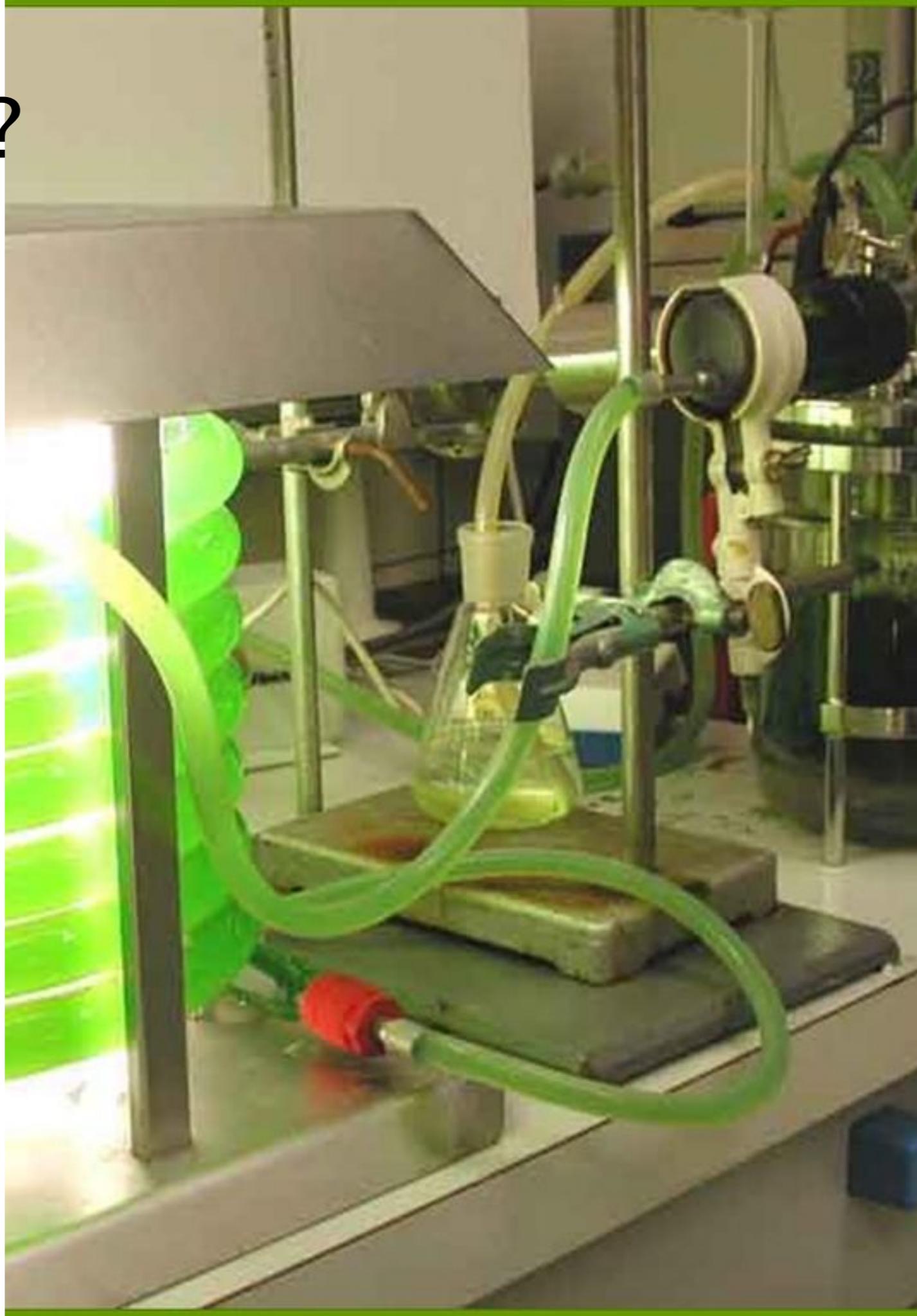
biohack academy
waag society

BioHack Academy
Documentation



Why document?

- Memory
- Structuring
- Sharing
- Improving
- Pride





Github

As easy as 1,2,3 & 4: Setup, create repo, fork repo and collaborate

Search GitHub Explore Gist Blog Help PieterVanBoheem... +

PieterVanBoheemen News Feed Pull Requests Issues

GitHub Bootcamp

1 Set up Git
A quick guide to help you get started with Git.

2 Create repositories
Repositories are where you'll work and collaborate on projects.

3 Fork repositories
Forking creates a new, unique project from an existing one.

4 Work together
Send pull requests, follow friends. Star and watch projects.

You've been added to the **waagsociety** organization!

Here are some quick tips for a first-time organization member.

- Use the switch context button in the upper left corner of this page to switch between your personal context (**PieterVanBoheemen**) and organizations you are a member of.
- After you switch contexts you'll see an organization-focused dashboard that lists out organization repositories and activities.



Announcing GitHub Enterprise 2.1.0

LDAP Sync, support for OpenStack KVM, instance monitoring, and more.

[View 51 new broadcasts](#)

Your repositories 2

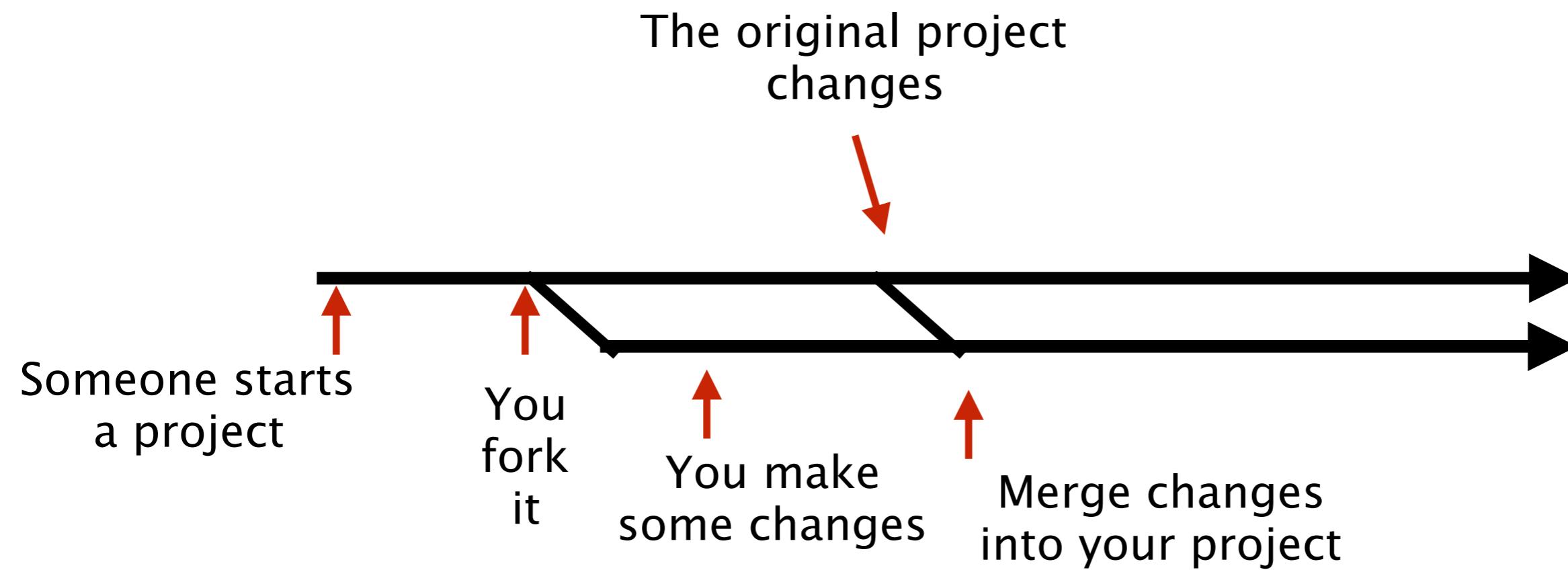
+ New repository

Find a repository...



Features of Github

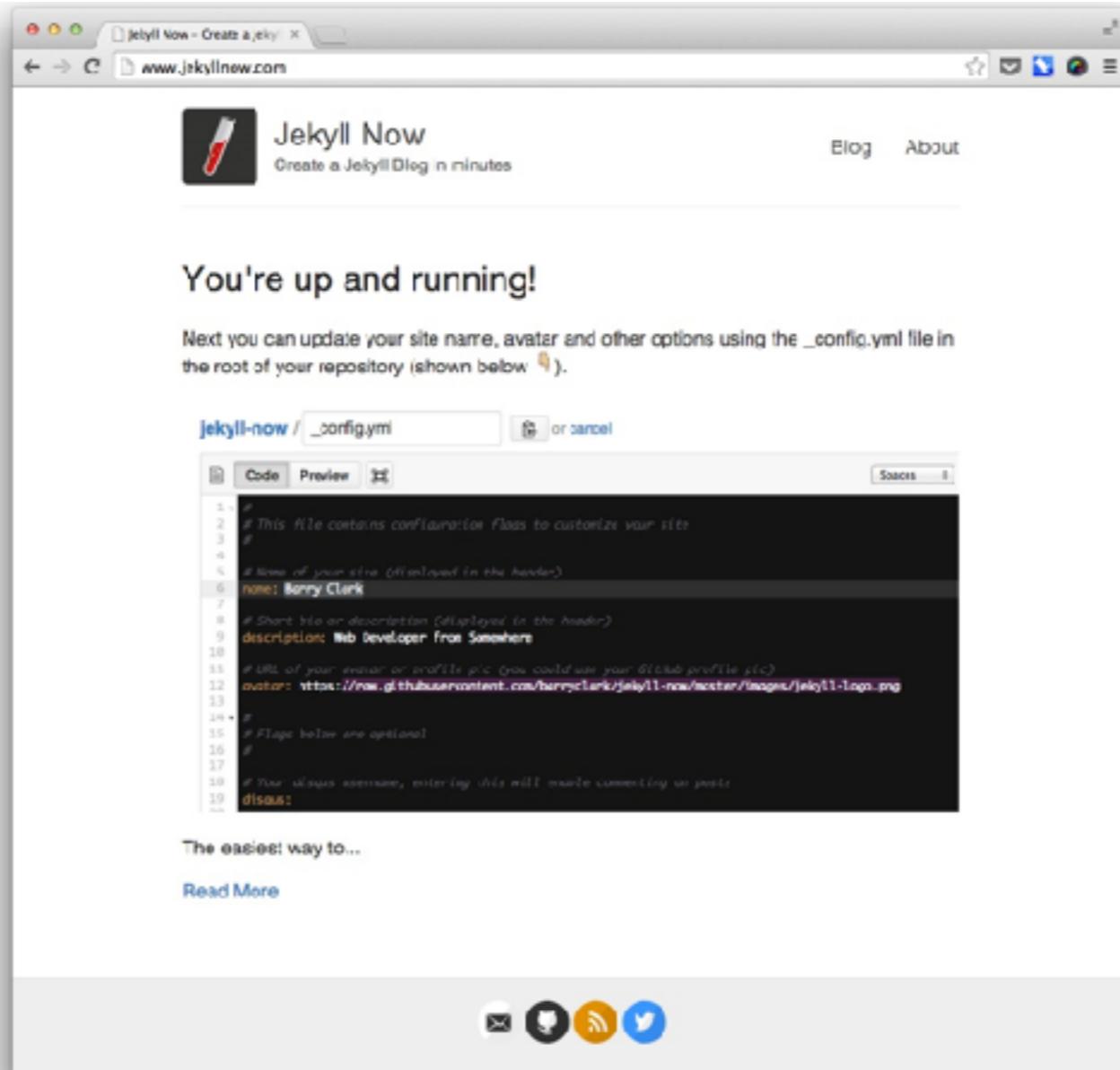
- Collaboration
- Version tracking
- Issue tracking
- Forking





Creating a Jekyll Github page

Jekyll allows you to create a „blog” type website on Github quickly



Follow this guide to get started:

[https://github.com/BioHackAcademy/
BHA_DocumentationSite](https://github.com/BioHackAcademy/BHA_DocumentationSite)



Mark down language

Jekyll recognizes Mark Down language that you can use to layout your text

Mou

![Mou icon](http://mouapp.com/Mou_128.png)

Overview

Mou, the missing Markdown editor for *web developers*.

Syntax

Strong and Emphasize

strong or **strong** (Cmd + B)

emphasize or **emphasize** (Cmd + I)

**Sometimes I want a lot of text to be bold.
Like, seriously, a LOT of text**

Blockquotes

> Right angle brackets > are used for block quotes.

Links and Email

An email <example@example.com> link.

Simple inline link <<http://chenluois.com>>, another inline link [Smaller](<http://smallerapp.com>), one more inline link with title [Resize](<http://resizesafari.com> "a Safari extension").

A [reference style][id] link. Input id, then anywhere in the doc, define the link with corresponding id:

Mou



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“

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Join BioHack Academy group

Email your Github name to pieter@waag.org

Screenshot of a GitHub profile page for the BioHackAcademy organization.

The top navigation bar includes: Search GitHub, Explore, Gist, Blog, Help, and a user profile for PieterVanBoheem... with a dropdown menu.

The main header shows the organization name **BioHackAcademy** with a gear icon for settings.

On the left, there are filters, a search bar ("Find a repository..."), and a green button for "+ New repository".

The repository listing shows one item:

- BioHackAcademy.github.io**: CSS, 0 stars, 2,798 forks. Forked from PieterVanBoheemen/PieterVanBoheemen.github.io.
- Description: Build a Jekyll blog in minutes, without touching the command line.
- Last updated: Updated a minute ago.

On the right, there are sections for **People** (listing PieterVanBoheemen) and **Teams** (listing "Jump to a team").

A large red overlay at the bottom contains the text: "In case you choose a different platform: send me the link as well!"



Documentation sites

BHA3:

- <http://biohackacademy.github.io/bha3/participants/documentation/>

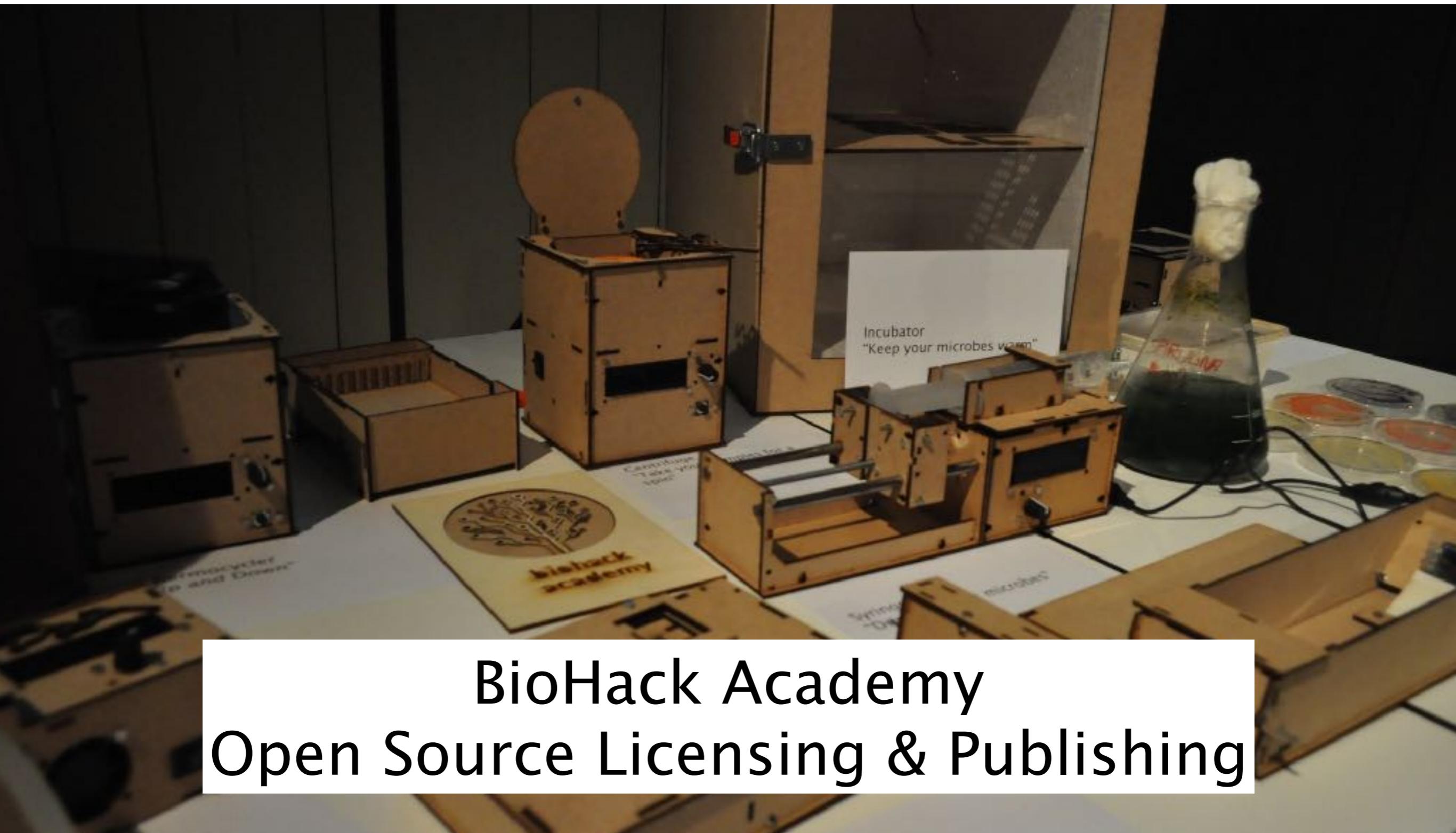
Previous editions:

- <http://biohackacademy.github.io/biofactory/participants/documentation/>
- <http://biohackacademy.github.io/bha2/participants/documentation/>



waag society

institute for art, science and technology



BioHack Academy
Open Source Licensing & Publishing



Intellectual Property

In Flanders Fields

In Flanders fields the poppies grow
Between the crosses, row on row,
That mark our place : and in the sky
The larks still bravely singin', fly
Scarce heard amid the guns below.

We are the Dead. Short days ago
We lived, felt dawn, saw sunset glow,
Lived, and were loved, and now we lie
In Flanders fields.

Take up our quarrel with the foe :
To you from failing hands we throw
The torch : beginn' to hold it high !
If ye break faith with us who die
We shall not sleep, though poppies grow
In Flanders fields.

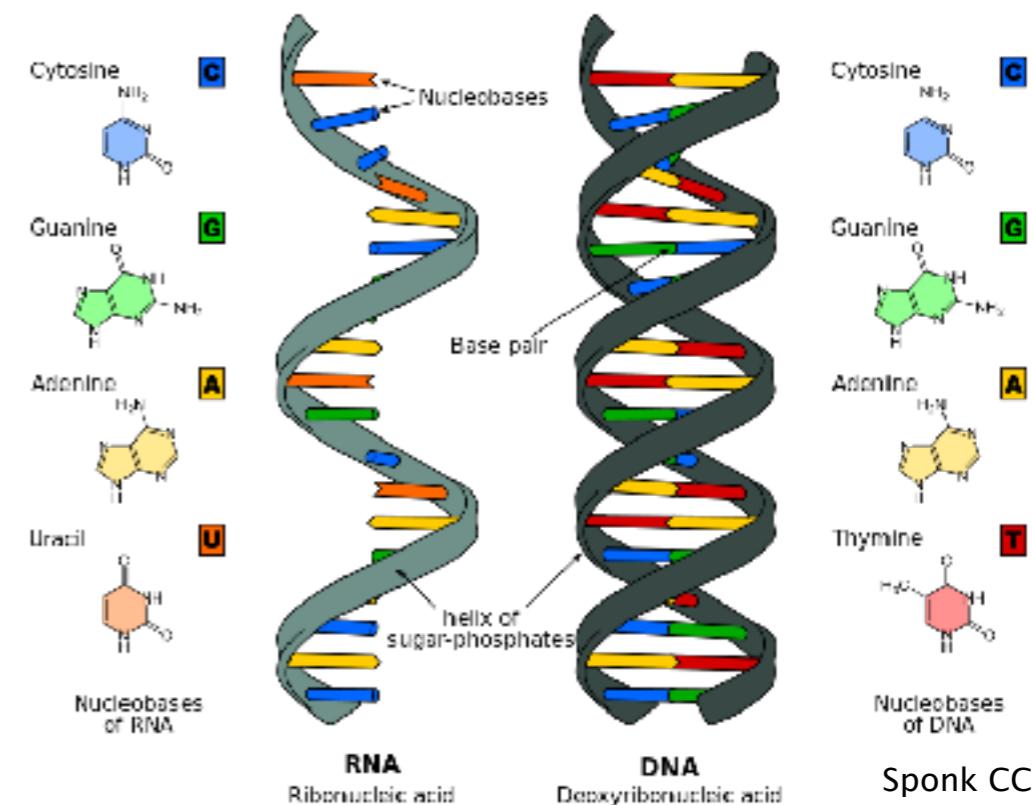
John McCrae

Turns on an LED on for one second, then off for one second, repeat

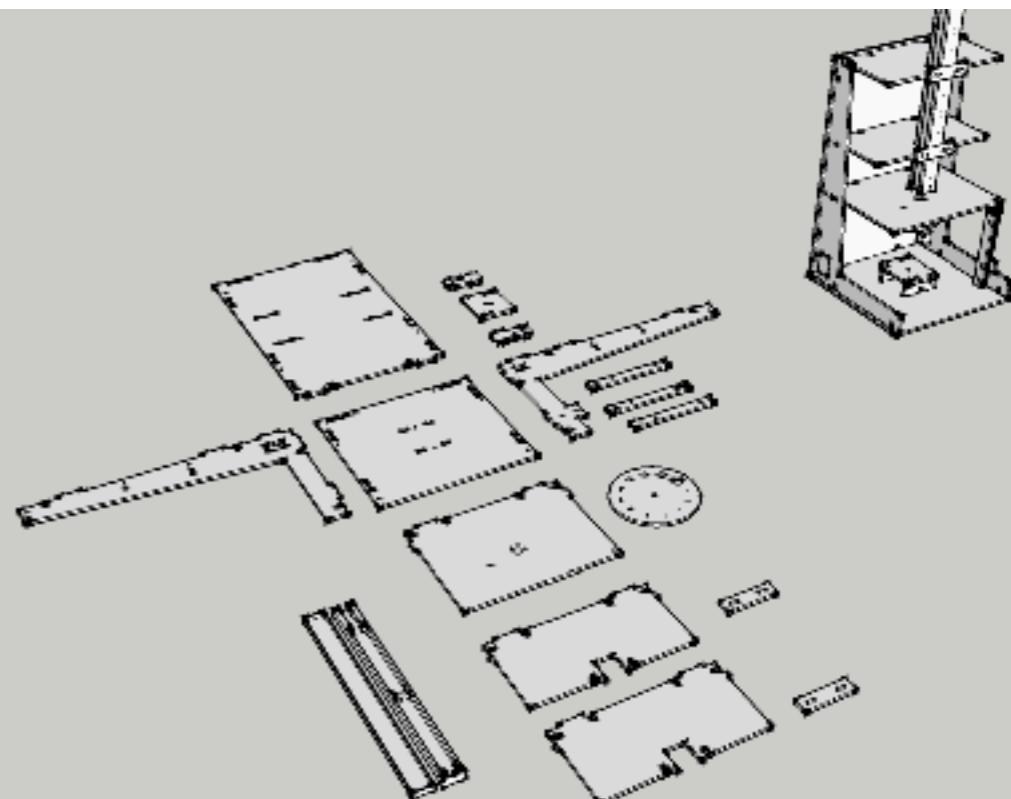
This example code is in the public domain.

*/

```
void setup() {  
  // initialize the digital pin as an output.  
  // Pin 13 has an LED connected on most Arduino boards:  
  pinMode(13, OUTPUT);  
  
}  
  
void loop() {  
  digitalWrite(13, HIGH);    // set the LED on  
  delay(1000);              // wait for a second  
  digitalWrite(13, LOW);     // set the LED off  
  delay(1000);              // wait for a second  
}
```



Spong CC-BY-SA 3.0





The age of conquest





Public Domain

- Free for everyone
- No rights reserved





Creative Commons

- SA: Share Alike
- BY: Attribution
- NC: Non commercial
- ND: No Derivatives
- Versions





GPL

GNU Public License

Right to:

- Copy
- Modify
- Distribute
- Sell
 - along with GPL

License has to be included in code

Viral clause





MIT

Minimal type

Right to:

- Use
- Copy
- Modify
- Sell
- Distribute

Attach the license

Viral clause





BioBricks Public Agreement

- DNA is not code
- Biology is not software
- Contract based
- Contribution
- No viral clause
- No share alike



BioBrick™
PUBLIC
AGREEMENT



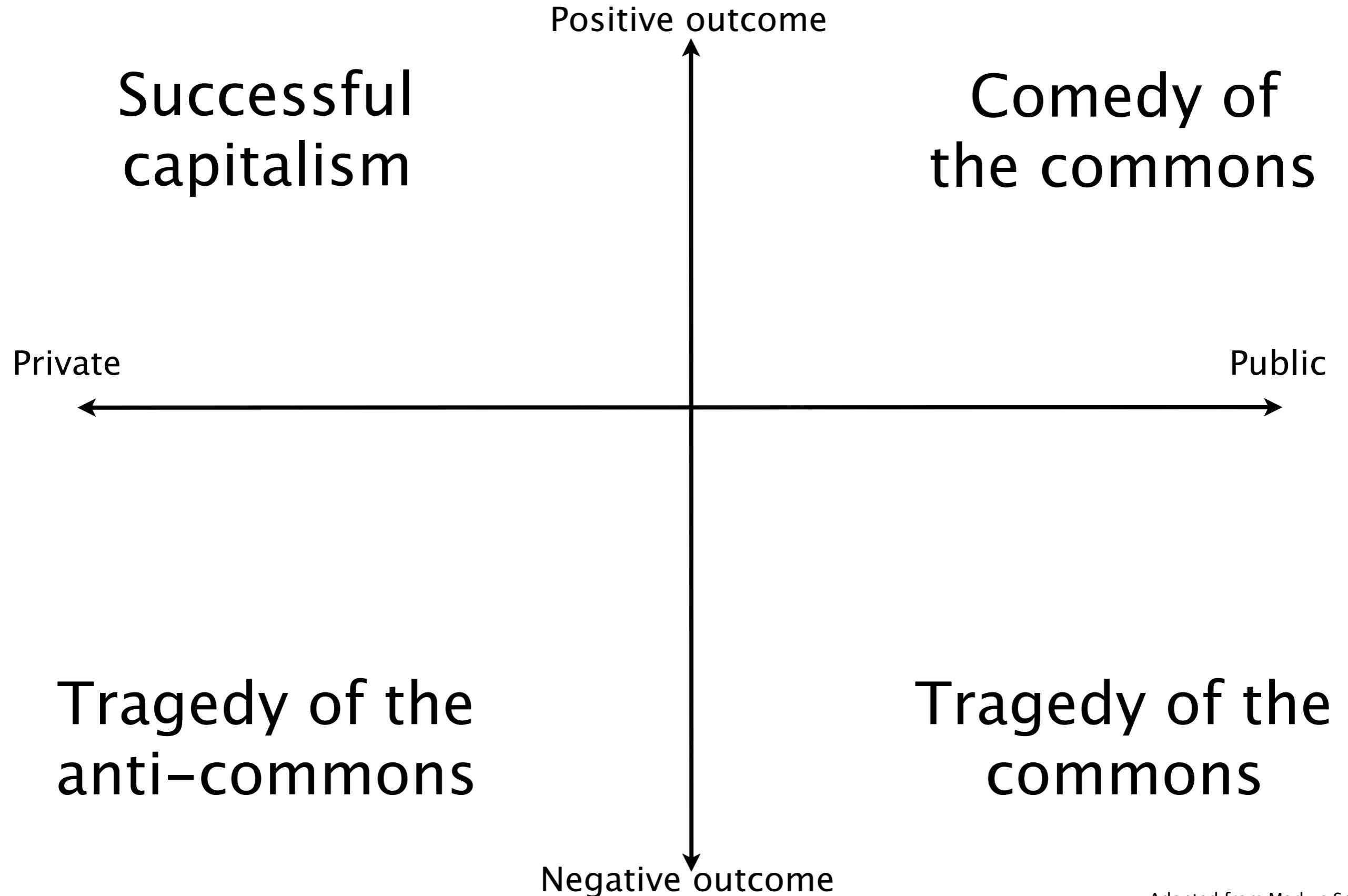
CAMBIA BiOS

- Open access to private patents
- Improvements open to CAMBIA

BiOS



Do we need a commons?





How to make money in/despite of the commons?





Why pharma is not open source?

- Difficult to invent around compound
- Culture





Biocommons

Picture by Pixelache





Biological Enclosures

Private Enclosure

WTO,
IP Rights

Public Enclosure

Prior Informed Consent,
Access Benefit Sharing,
Mutually Agreed Terms

Increased Costs
Increased Regulatory Burden

Difficult Access to Resources
Lack of Research

Bio Piracy



Additional resources

- Software licences
 - <https://opensource.org/licenses/category>



**some
rights
reserved**