

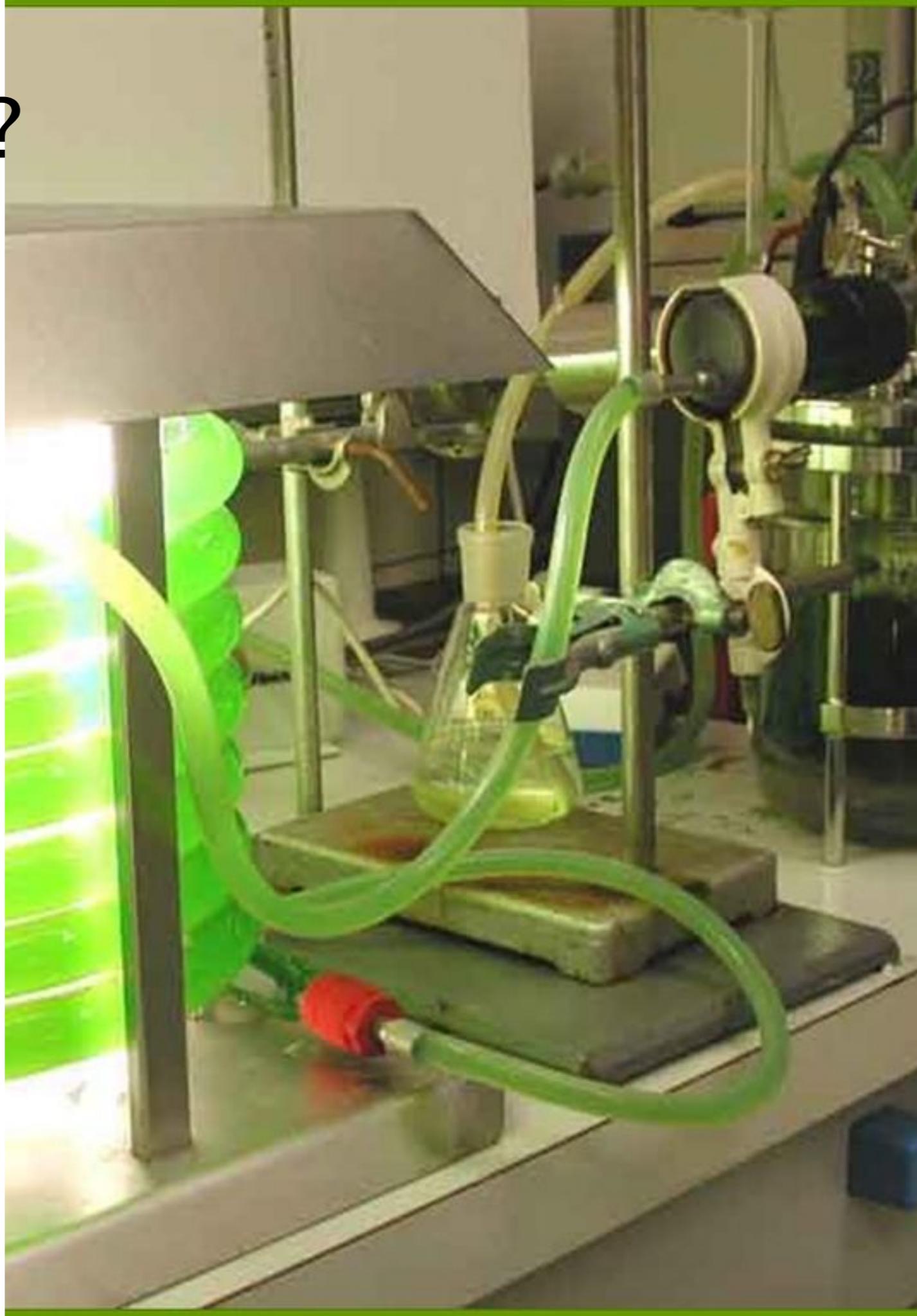
biohack academy
waag society

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 ▾

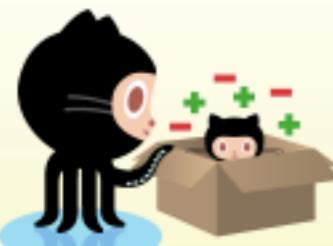
 News Feed

 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.

 defunkt ▾

[View 51 new broadcasts](#)



Announcing GitHub Enterprise 2.1.0

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

Your repositories 2

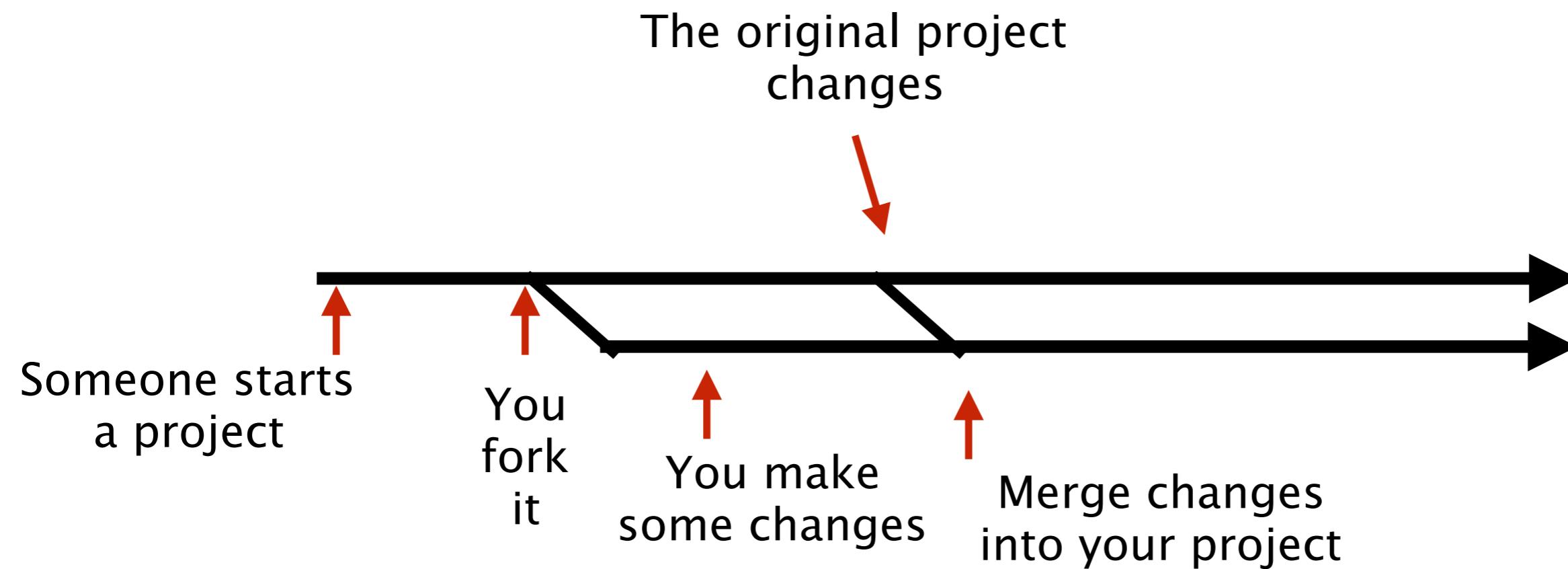
+ New repository

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

A screenshot of a web browser displaying the Jekyll Now website at www.jekyllnow.com. The page title is "Jekyll Now - Create a Jekyll Blog". The main content says "You're up and running!" and provides instructions for updating the _config.yml file. A code editor window shows the contents of _config.yml with placeholder values like "Barry Clark" and "Web Developer from Somewhere". Below the code editor, there's a note about the easiest way to... and a "Read More" link. At the bottom, there are social sharing icons for email, GitHub, RSS, and Twitter.

```
1 # This file contains configuration flags to customize your site
2 #
3 #
4 #
5 # Name of your site (displayed in the header)
6 name: Barry Clark
7 #
8 # Short bio or description (displayed in the header)
9 description: Web Developer from Somewhere
10 #
11 # URL of your avatar or profile pic (you could use your GitHub profile pic)
12 avatar: https://raw.githubusercontent.com/barryclark/jekyll-now/master/images/jekyll-logo.png
13 #
14 #
15 # Flags below are optional
16 #
17 #
18 # Your disqus username, entering this will enable commenting on posts
19 disqus:
~~~
```

Follow this guide to get started:

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



Markdown language

Jekyll recognises Markdown 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



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.



Join BioHack Academy group

Email your Github page to roland@waag.org

The screenshot shows a GitHub organization page for "BioHackAcademy". The top navigation bar includes links for "Explore", "Gist", "Blog", and "Help". The user "PieterVanBoheem..." is logged in. On the left, there's a search bar, a "Filters" dropdown, and a "Find a repository..." input field. A green button labeled "+ New repository" is visible. The main area features the organization's logo, its name "BioHackAcademy", and a gear icon. Below this is a repository card for "BioHackAcademy.github.io". The card includes the URL, a description ("Build a Jekyll blog in minutes, without touching the command line."), and stats: "CSS", "0 stars", and "2,798 forks". It also notes it was "forked from PieterVanBoheemen/PieterVanBoheemen.github.io" and was "Updated a minute ago". To the right of the repository card are two sections: "People" (listing "PieterVanBoheemen") and "Teams" (with a "Jump to a team" search bar). A large red overlay at the bottom contains the text: "In case you choose a different platform: send me the link as well!"

Search GitHub

Explore Gist Blog Help

PieterVanBoheem...

BioHackAcademy

Filters Find a repository... + New repository

BioHackAcademy.github.io

forked from PieterVanBoheemen/PieterVanBoheemen.github.io

Build a Jekyll blog in minutes, without touching the command line.

Updated a minute ago

css ★ 0 2,798

People 1 >

PieterVanBoheemen

Invite someone

Teams 1 >

Jump to a team

Owners 1 member · 1 repository

In case you choose a different platform:
send me the link as well!



Documentation sites

BHA4:

- <http://biohackacademy.github.io/bha4/participants/>

BHA3:

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

BHA2:

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

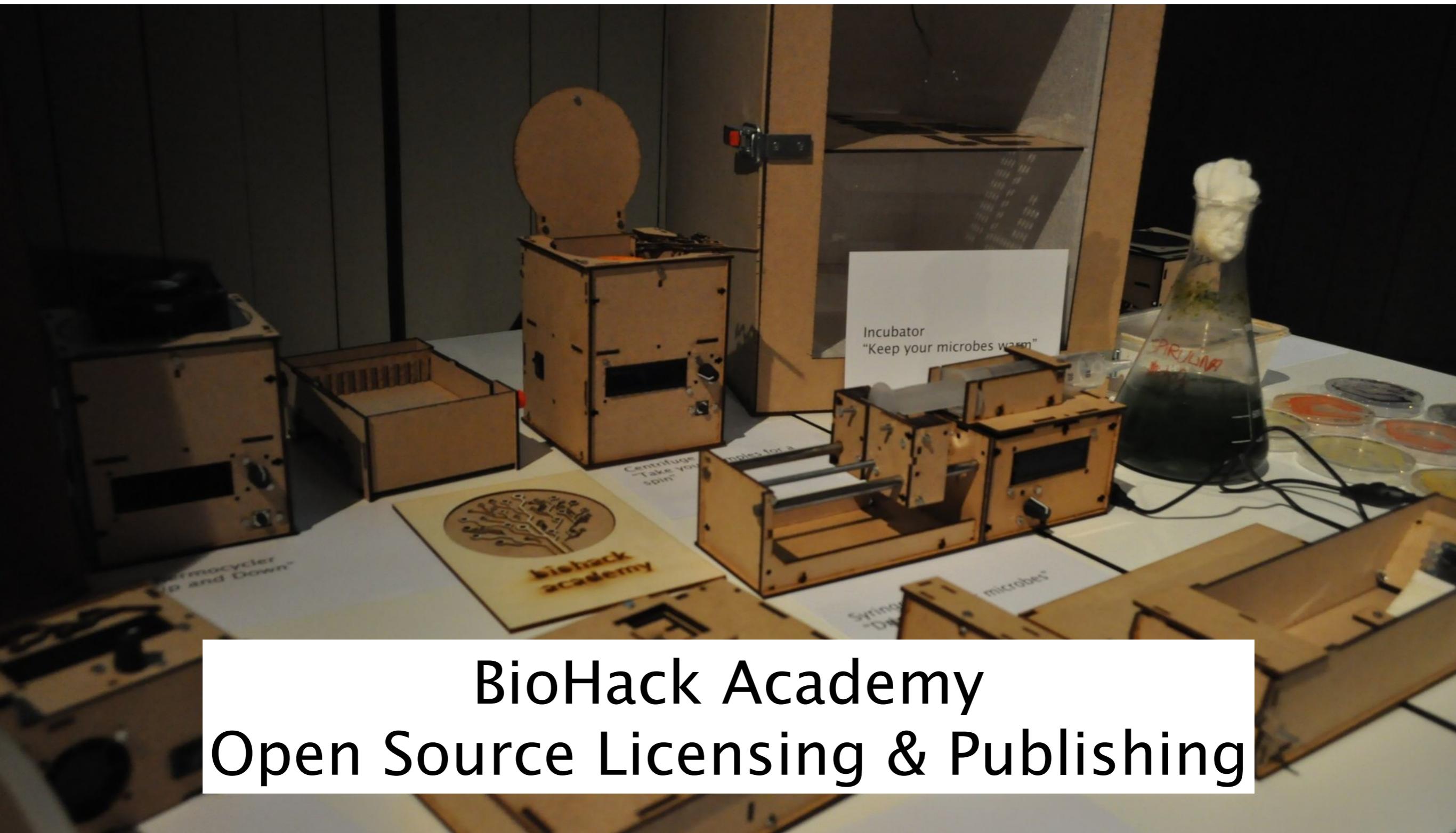
BHA1:

- <http://biohackacademy.github.io/biofactory/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 singing, 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 : be yours to hold it high !
If ye break faith with us who die
We shall not sleep, though poppies grow
In Flanders fields.

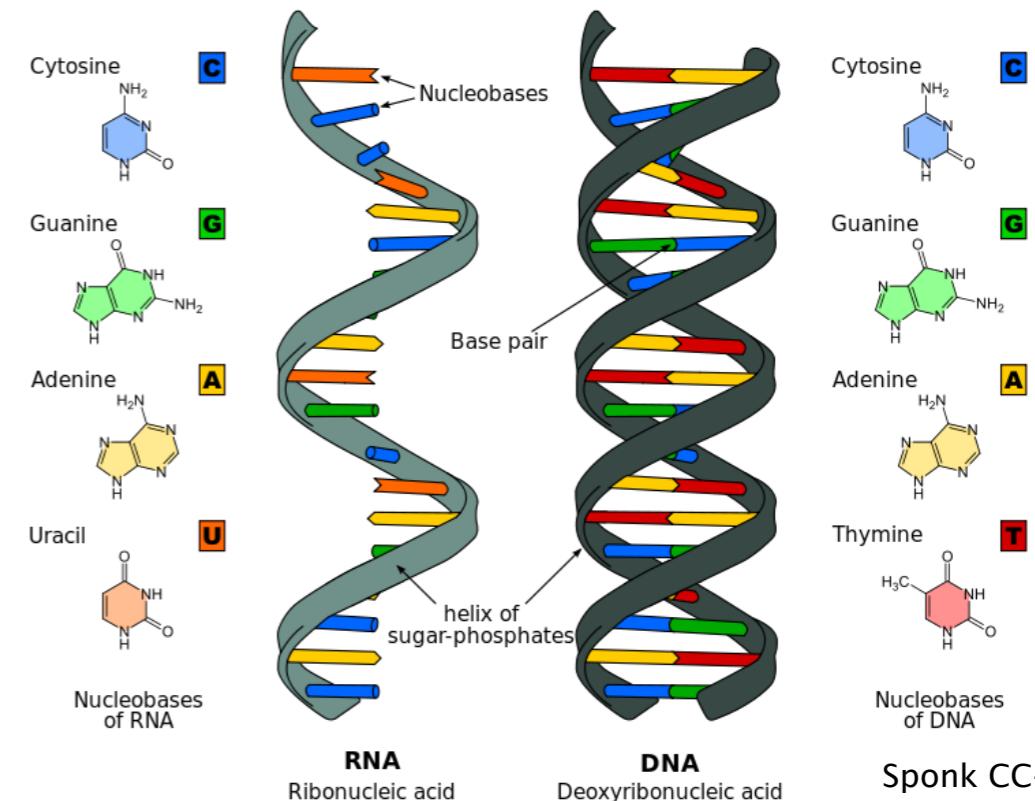
John McCrae

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

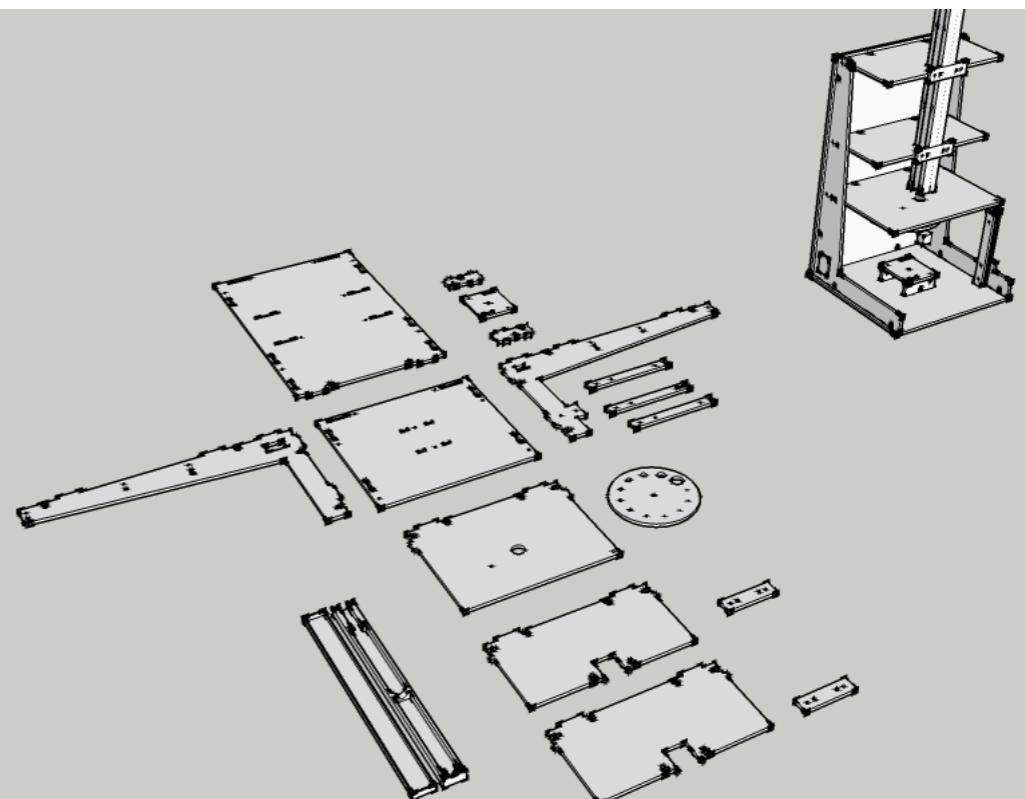
This example code is in the public domain.

*/

```
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



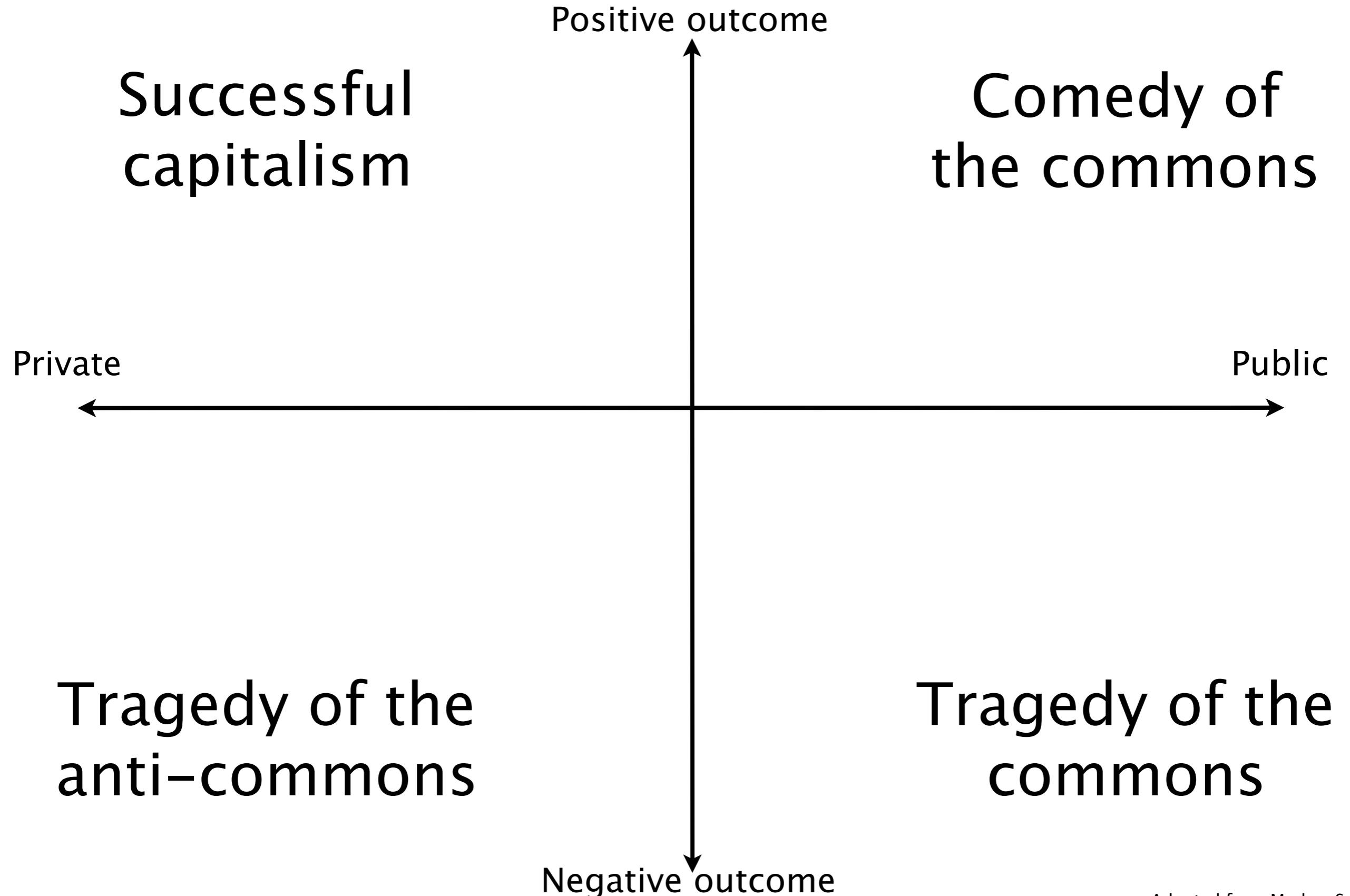
CAMBIA BiOS

- 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**