

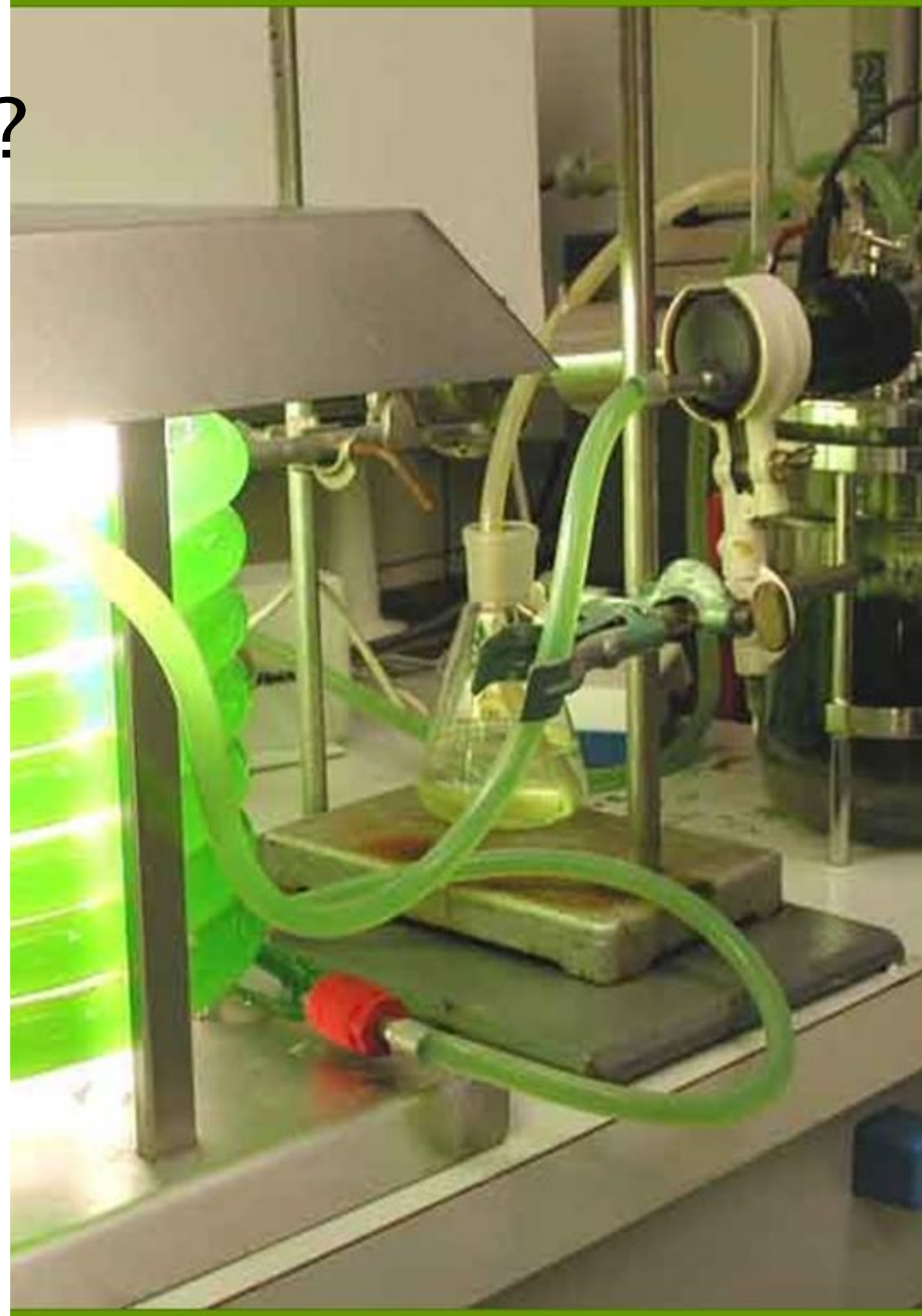
**biohack academy**  
**waag society**

**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

Explore Gist Blog Help

PieterVanBoheem... + [notifications] [settings] [share]

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 ▾

Announcing GitHub Enterprise 2.1.0

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

View 51 new broadcasts

Your repositories 2

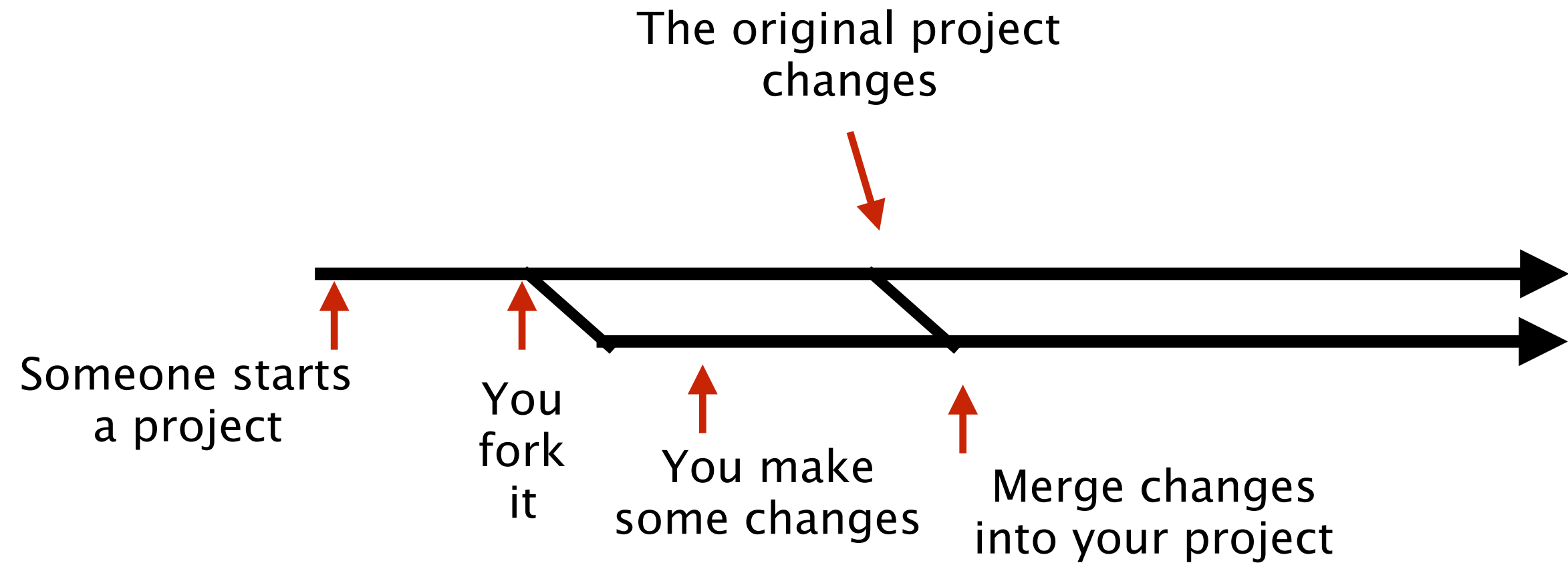
+ New repository

Find a repository...



# Features of Github

- Collaboration
- Version tracking
- Issue tracking
- Forking

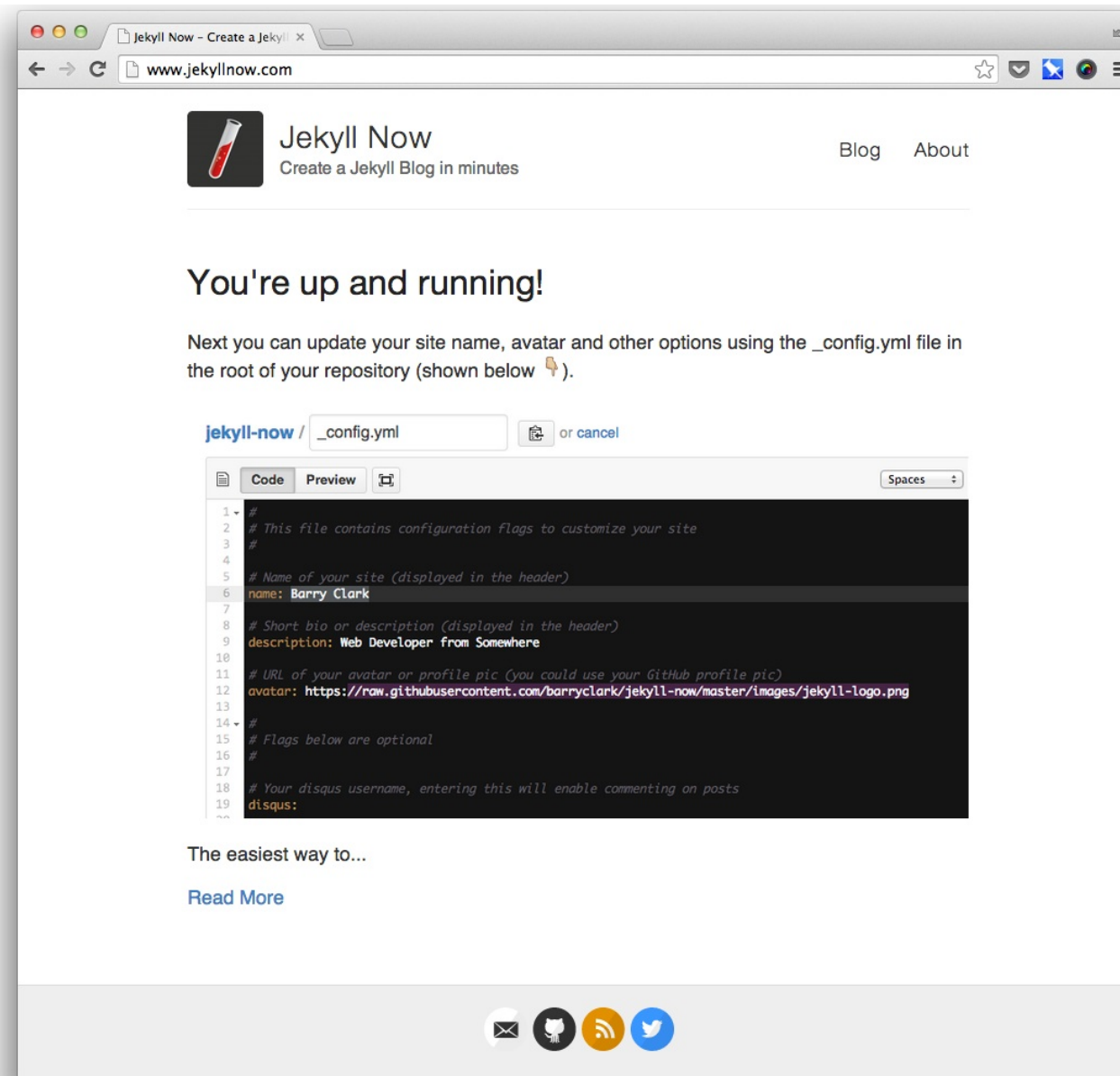






# Creating a Jekyll Github page

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)



# 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 &gt; 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

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### Blockquotes

“

*Right angle brackets > are used for block quotes.*



# Join BioHack Academy group

Email your Github page to [roland@waag.org](mailto:roland@waag.org)

The screenshot shows the GitHub interface for the repository 'BioHackAcademy'. At the top, there is a search bar and navigation links for 'Explore', 'Gist', 'Blog', and 'Help'. The repository name 'BioHackAcademy' is prominently displayed with its logo. Below the name, there is a search bar for repositories and a green '+ New repository' button. The repository description reads: 'BioHackAcademy.github.io', 'CSS', '0 stars', and '2,798 forks'. It is noted as being forked from 'PieterVanBoheemen/PieterVanBoheemen.github.io' and describes building a Jekyll blog without touching the command line. The page is updated 'a minute ago'. On the right side, there are sections for 'People' (listing PieterVanBoheemen) and 'Teams'.

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:

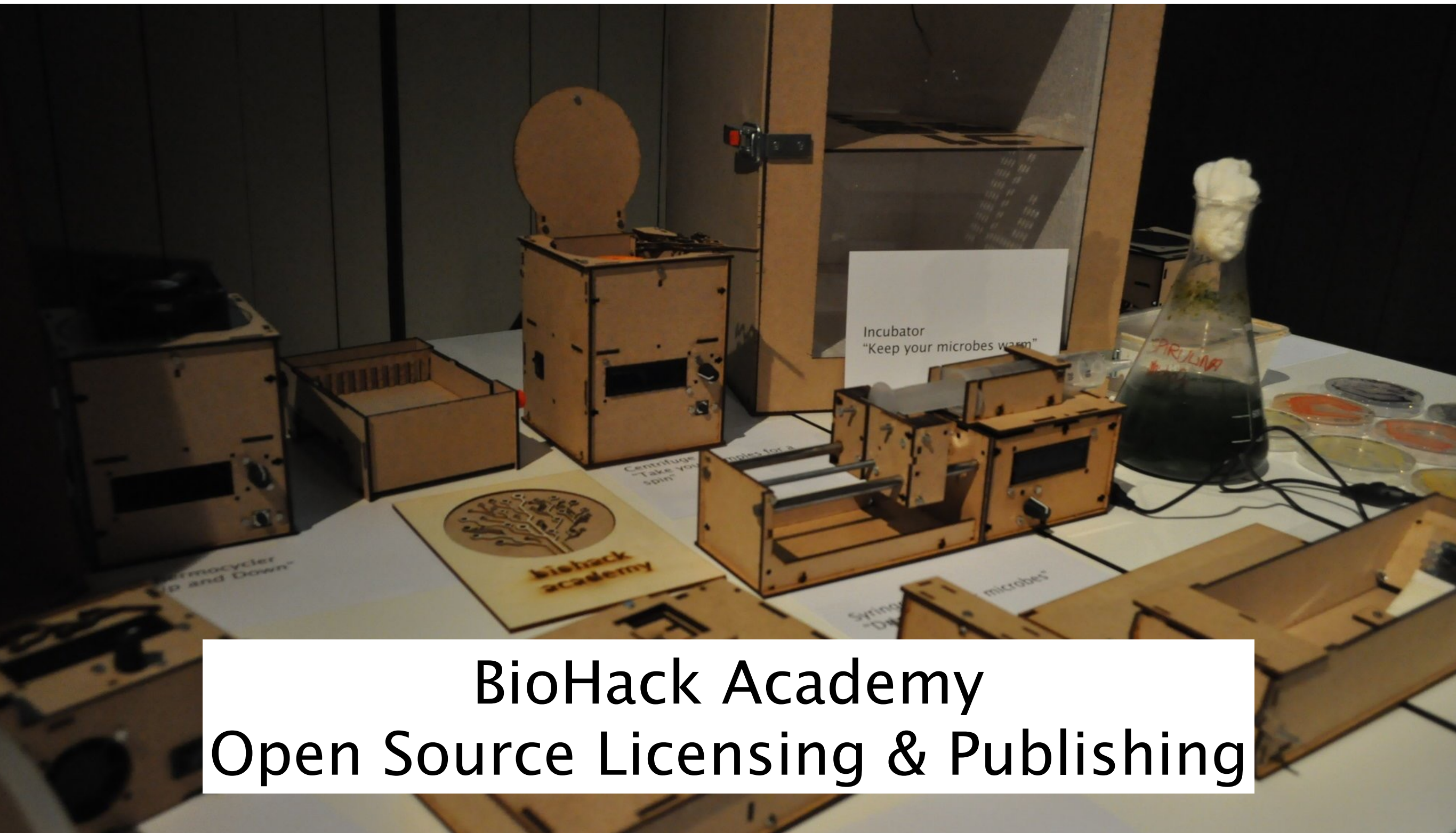
- <http://biohackacademy.github.io/biofactory/participants/documentation/>





**waag society**

institute for art, science and technology



# BioHack Academy Open Source Licensing & Publishing



# Intellectual Property

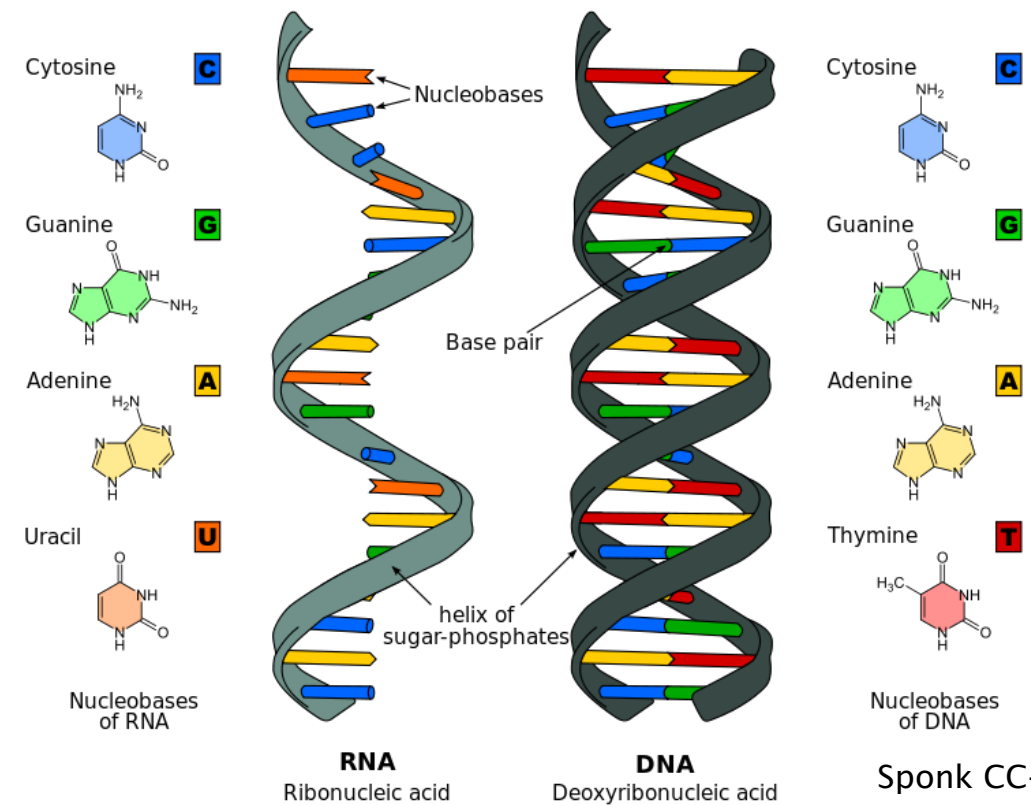
*In Flanders Fields*

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,  
Loved, 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



Sponk CC-BY-SA 3.0

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

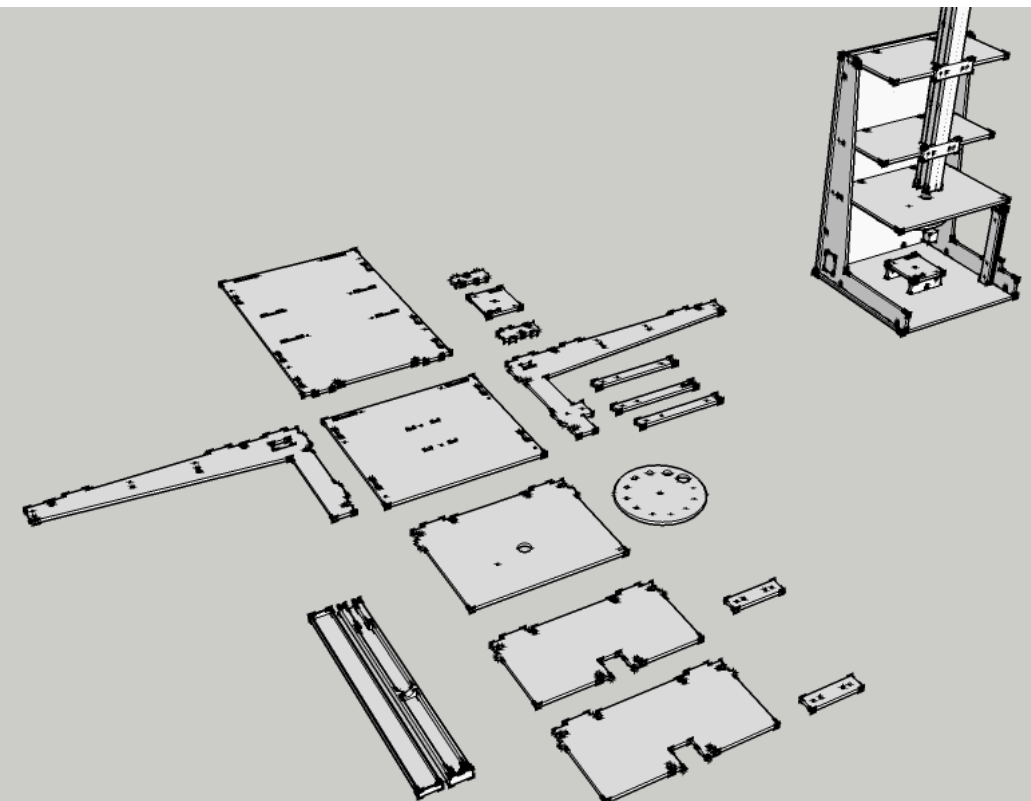
This example code is in the public domain.

```

*/
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
}

```







# 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<sup>TM</sup>  
PUBLIC  
AGREEMENT





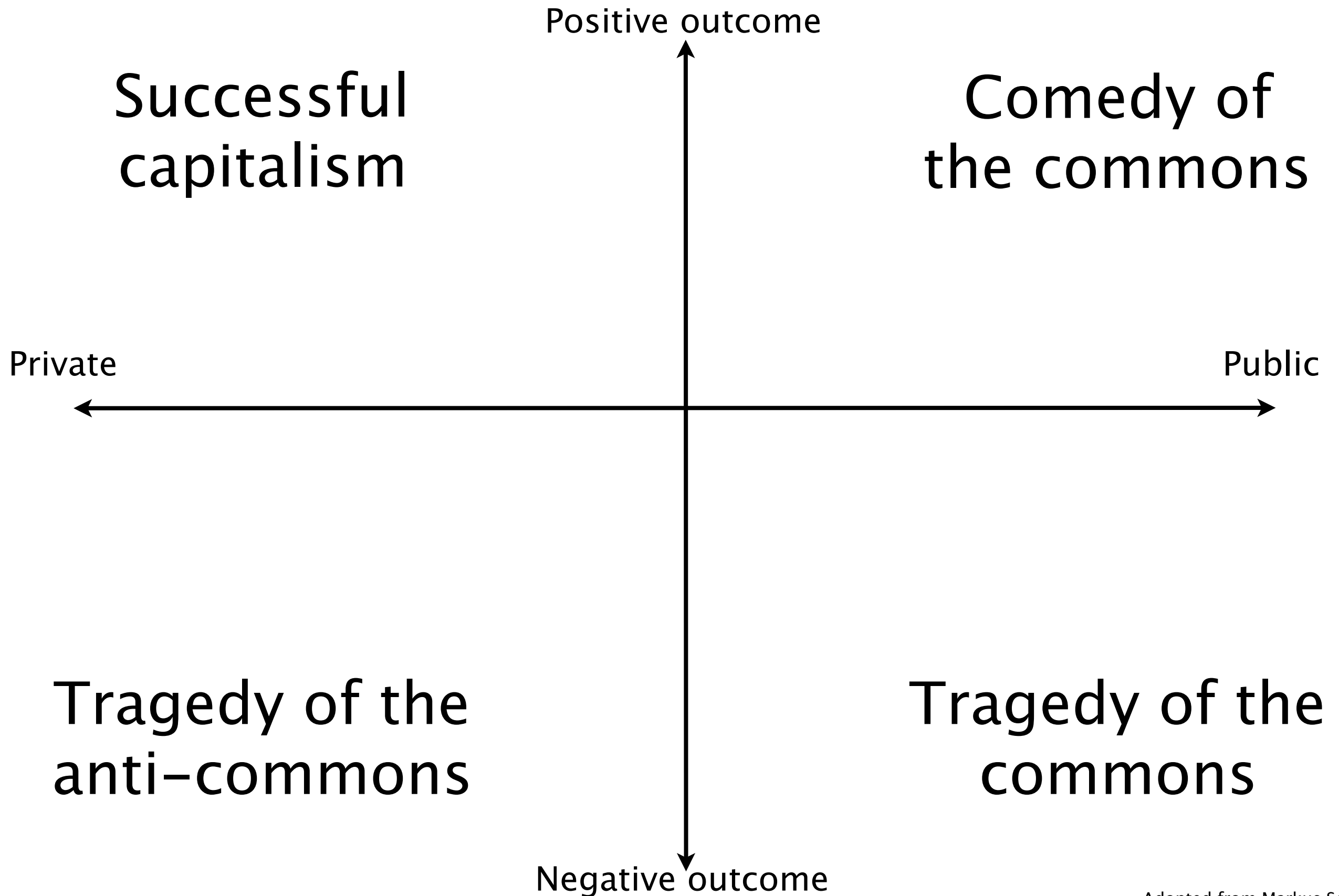
# CAMBIA BIOS

- 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

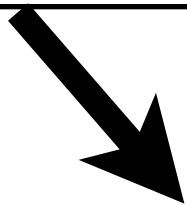




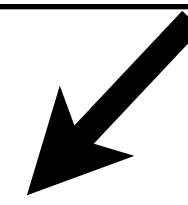


# Biological Enclosures

<b>Private Enclosure</b>	<b>Public Enclosure</b>
WTO, IP Rights	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**