

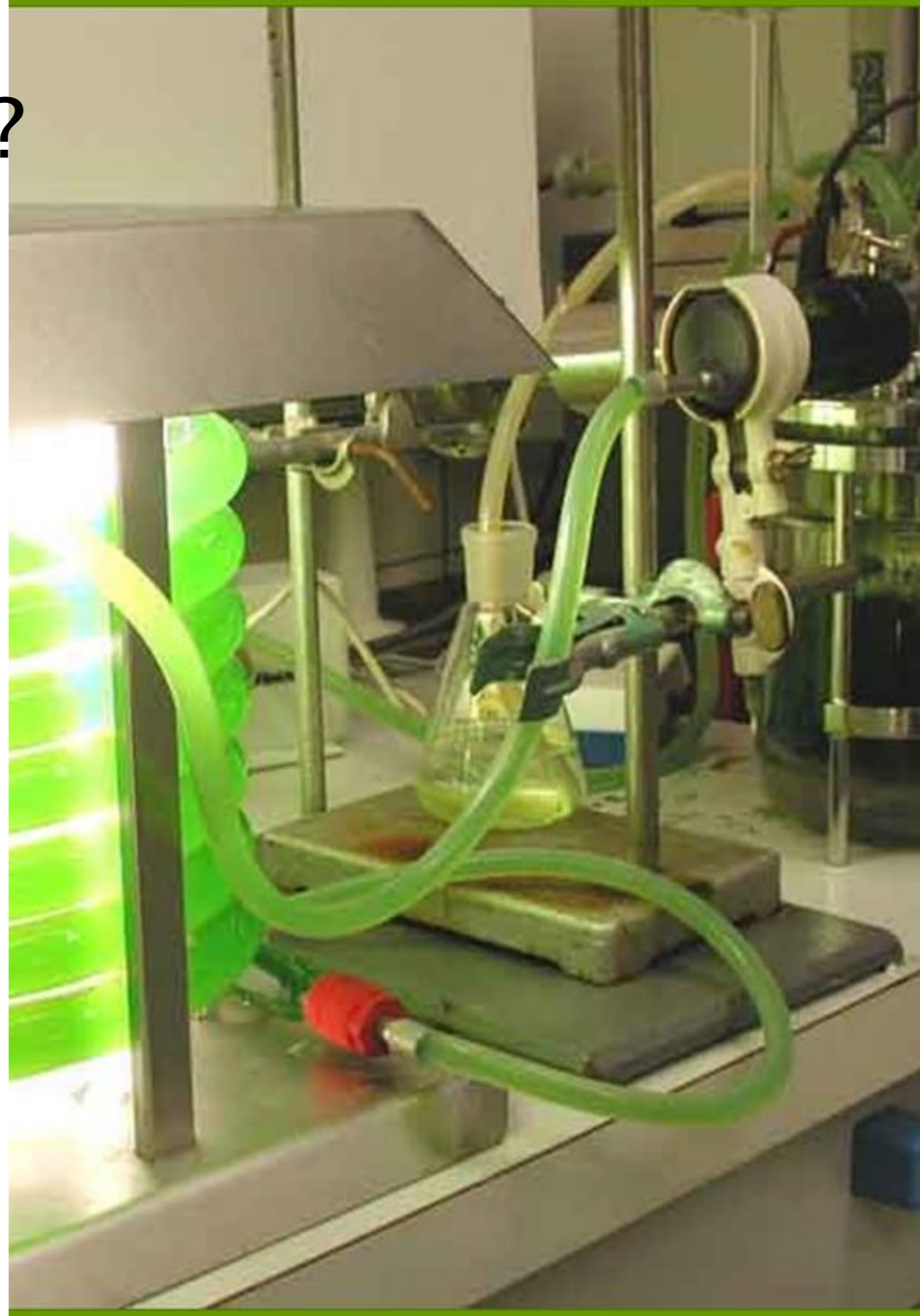
biohack academy
waag society

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... +

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](#)

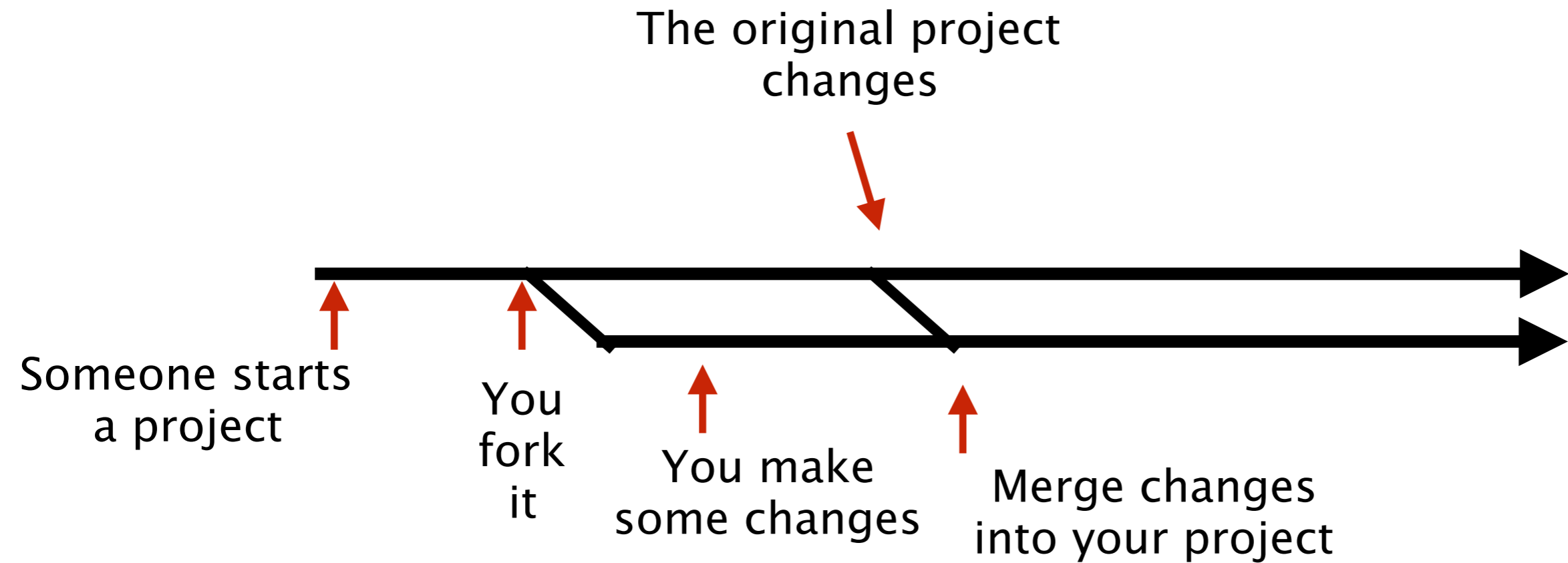
Your repositories 2 [+ New repository](#)

Find a repository...



Features of Github

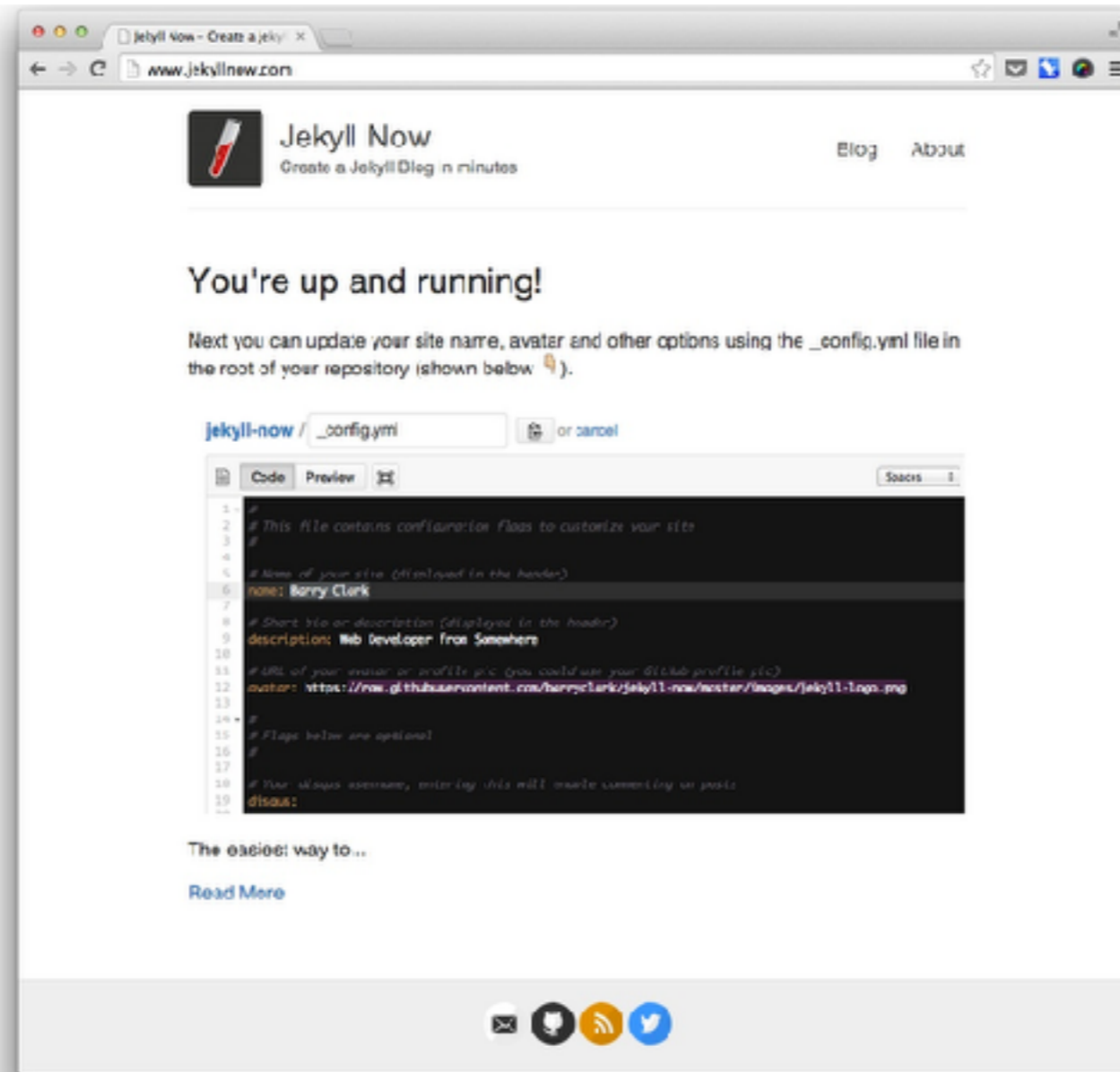
- Collaboration
- Version tracking
- Issue tracking
- Forking





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

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 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 displayed with a gear icon for settings. Below the name, there is a search bar for repositories and a green button labeled `+ New repository`. The repository description is `BioHackAcademy.github.io`, which is a fork of `PieterVanBoheemen/PieterVanBoheemen.github.io`. The description reads: "Build a Jekyll blog in minutes, without touching the command line." It also shows that the repository was updated a minute ago. On the right side, there is a sidebar with sections for "People" (listing `PieterVanBoheemen` and an "Invite someone" button) and "Teams" (with a search bar for teams). The "Owners" section shows "1 member · 1 repository".

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



Documentation sites

BHA5:

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

BHA4:

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

BHA3:

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

BHA2:

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

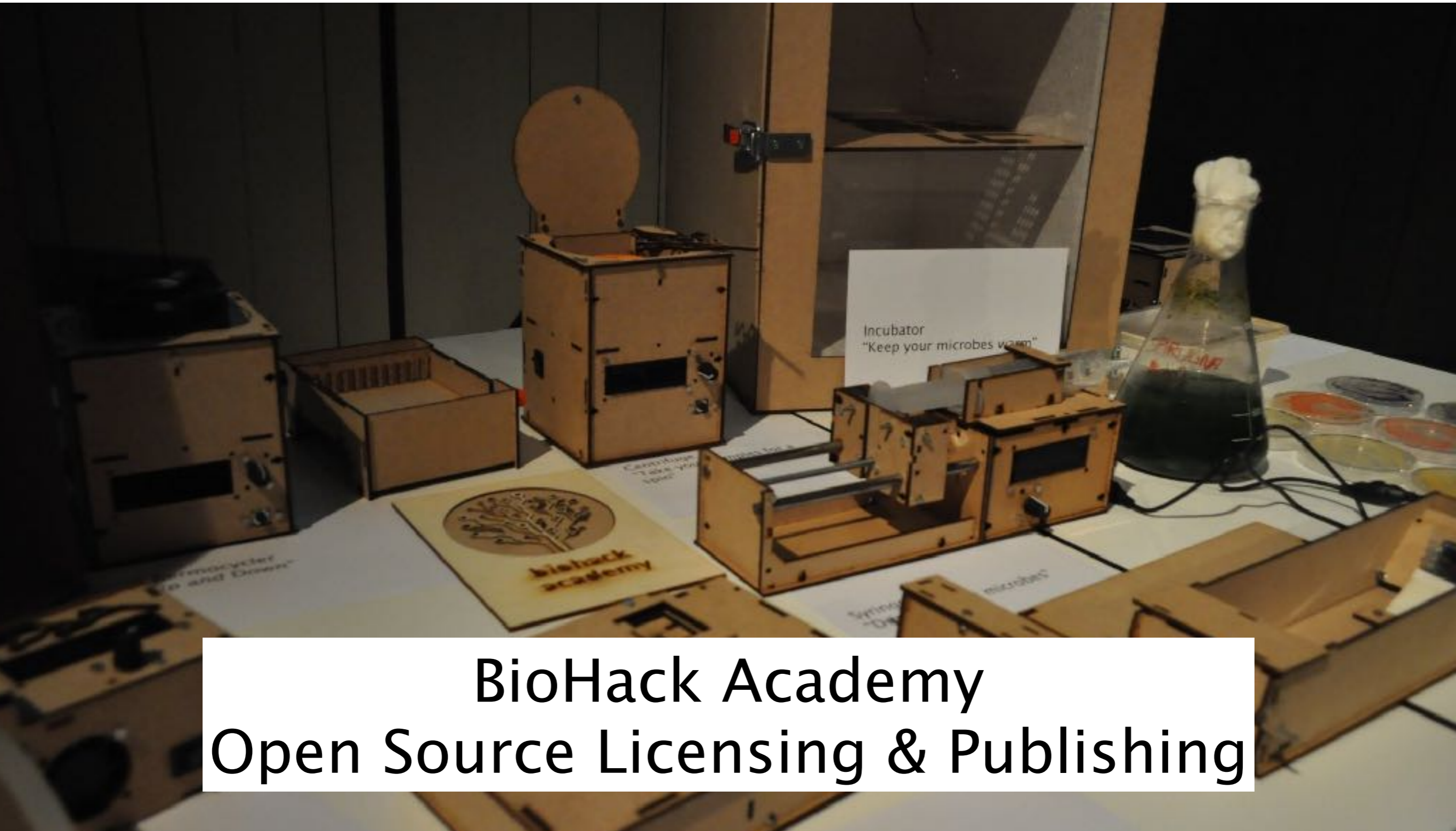
BHA1:

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



waag society

institute for art, science and technology



BioHack Academy Open Source Licensing & Publishing



Intellectual Property

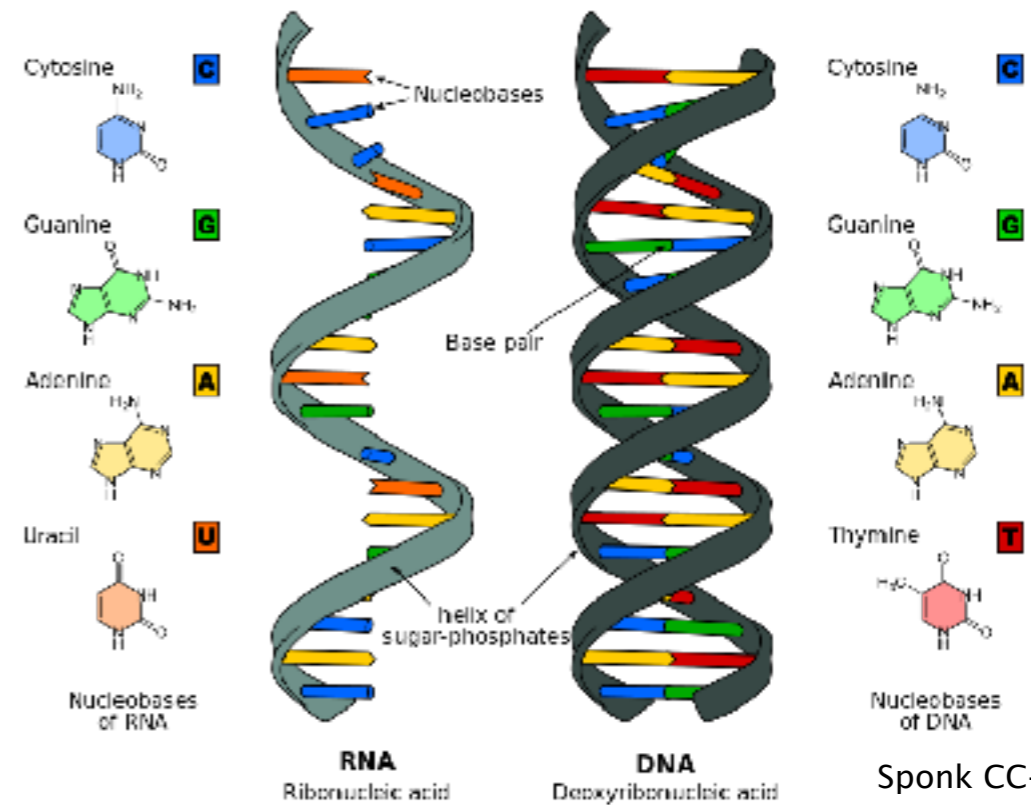
In Flanders Fields

In Flanders fields the poppies grow
Between the crosses, row on row
That mark our place; and in the sky
The larks still bravely sing, the
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, repeats

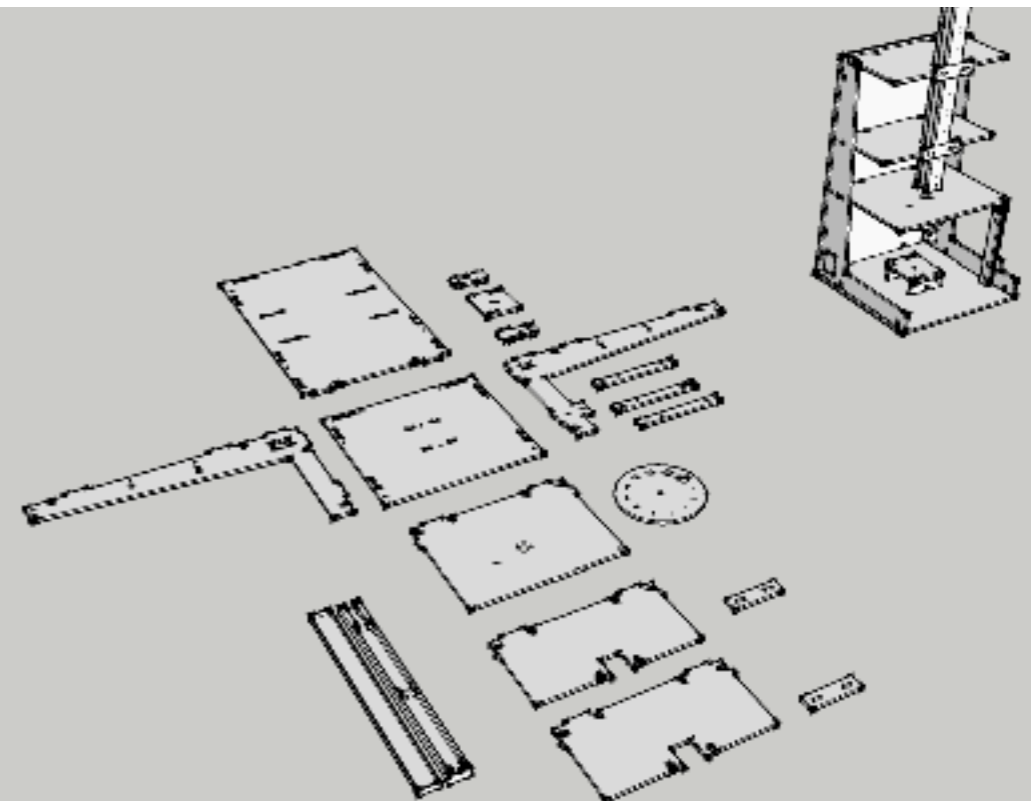
This example code is in the public domain.

```

*/
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



BioBrickTM
PUBLIC
AGREEMENT



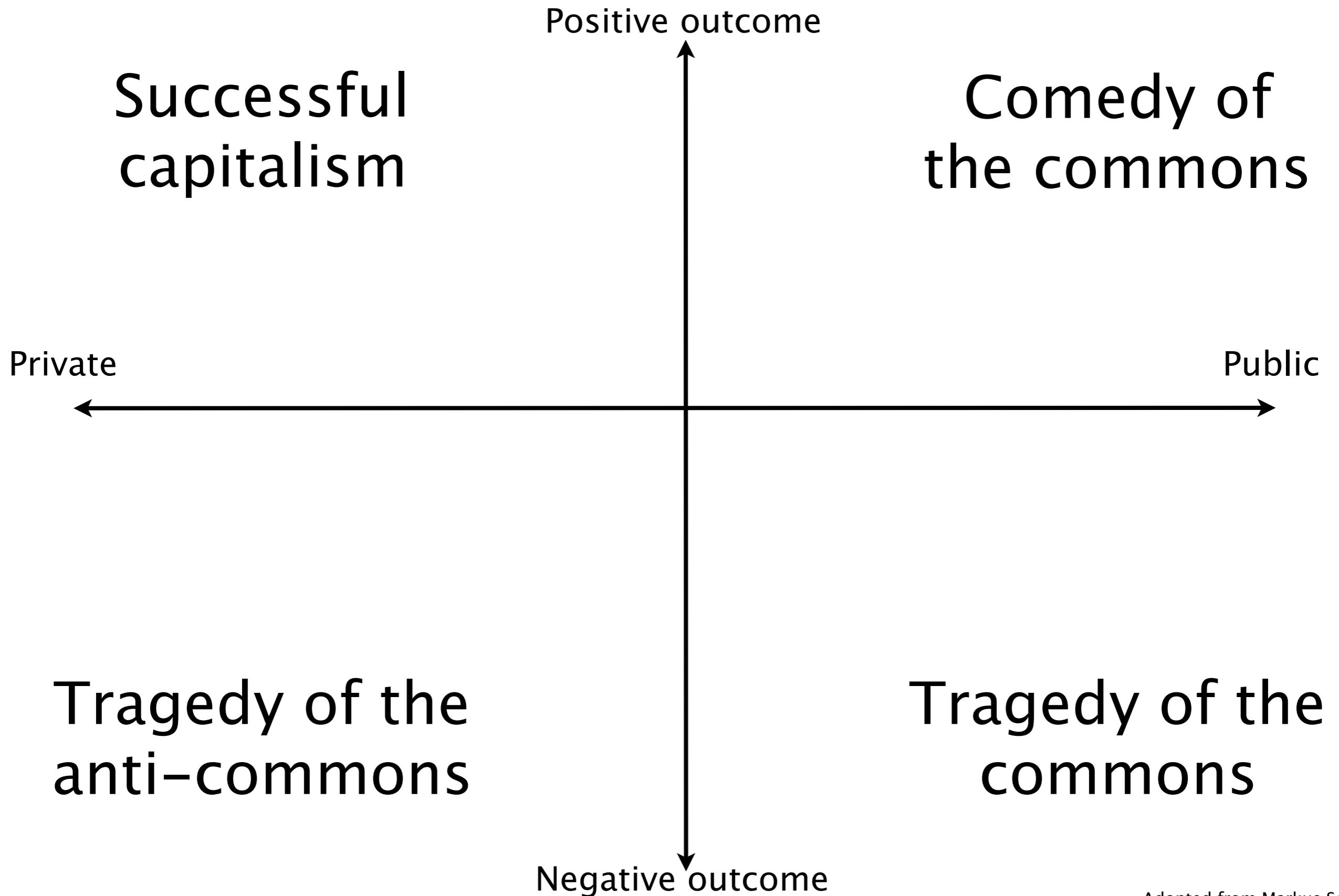
CAMBIA BIOS

- 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

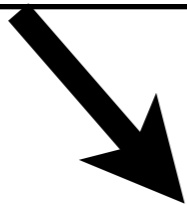
Picture by Pixelache



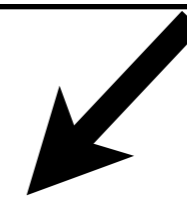


Biological Enclosures

Private Enclosure	Public Enclosure
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**