



Documentation

BioHack Academy 2022

Maarten Smith

While the lawyers first and
 next are not as relevant as
 perhaps either the business

Indebtedness

Case: A girl with an anxiety disorder is preparing herself for a party with unknown people. She's asking an affil. which will they think? Will they think she's a loser?

Effect of folding

Van Dyke (2001) - affd
a. subscale forecast.

The affordance

The affords

should be removed and the

The

The imaging with

Load Deflection

Why document?

- Memory
- Structuring thoughts
- Sharing (with a community)
- Improving
- Pride



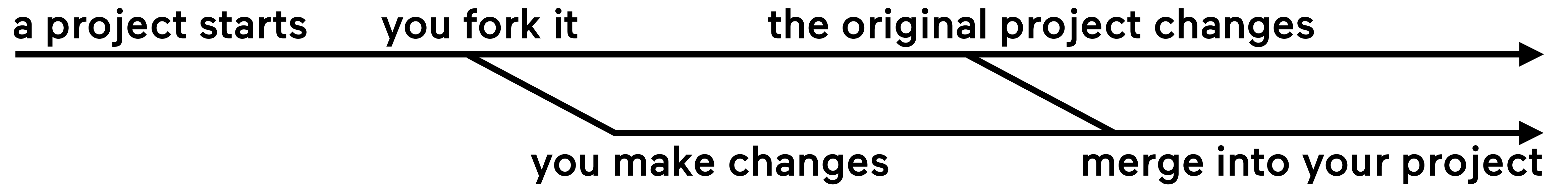
git

- **Version Control System (VCS)**
- **Tracking changes in files**
- **Developing source code collaboratively**
- **Free and Open Source**

GitHub

- Online platform that works with git
- Repository hosting
- Browse code
- Issues
- Not Open Source, free for some things

GitHub



▼  ivoormeeuw.github.io	Today at 15:15	65,6 MB	Folder
 about.md	24 February 2022 at 14:15	2 KB	Markdo...cument
>  _site	24 February 2022 at 14:10	21,6 MB	Folder
>  _posts	24 February 2022 at 12:59	430 bytes	Folder
>  _includes	24 February 2022 at 12:54	36 KB	Folder
>  images	14 February 2022 at 16:06	21,6 MB	Folder
>  _layouts	14 February 2022 at 16:06	2 KB	Folder
>  _scss	14 February 2022 at 16:06	6 KB	Folder
 _config.yml	23 December 2021 at 16:06	2 KB	YAML Document
 style.scss	23 December 2021 at 16:01	4 KB	Sublime...cument
 index.html	20 December 2021 at 20:25	402 bytes	HTML text
 feed.xml	20 December 2021 at 20:25	789 bytes	XML Document
 README.md	20 December 2021 at 20:25	5 KB	Markdo...cument
 LICENSE	20 December 2021 at 20:25	1 KB	Document
 404.md	20 December 2021 at 20:25	336 bytes	Markdo...cument



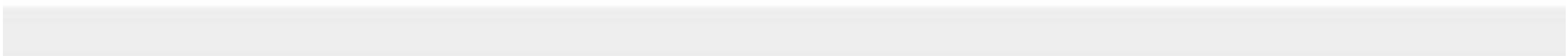








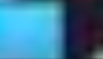








Maarten's BHA documentation site

blog

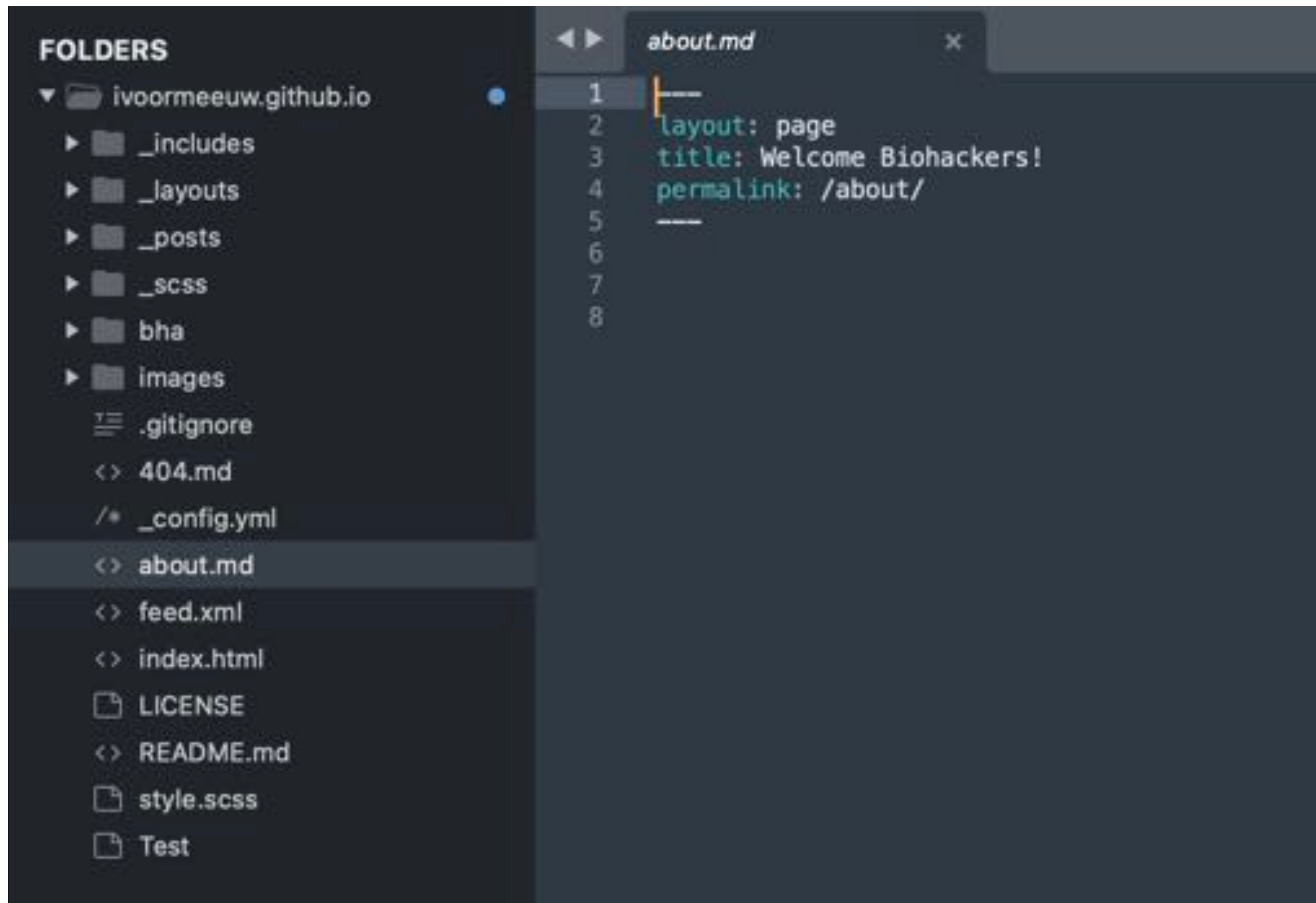
[Blog](#)

[About](#)



✓  ivormeeuw.github.io	Today at 15:15	65,6 MB	Folder
 about.md	24 February 2022 at 14:15	2 KB	Markdo...cument
>  _site	24 February 2022 at 14:10	21,6 MB	Folder
>  _posts	24 February 2022 at 12:59	430 bytes	Folder
>  _includes	24 February 2022 at 12:54	36 KB	Folder
>  images	14 February 2022 at 16:06	21,6 MB	Folder
>  _layouts	14 February 2022 at 16:06	2 KB	Folder
>  _scss	14 February 2022 at 16:06	6 KB	Folder
 _config.yml	23 December 2021 at 16:06	2 KB	YAML Document
 style.scss	23 December 2021 at 16:01	4 KB	Sublime...cument
 index.html	20 December 2021 at 20:25	402 bytes	HTML text
 feed.xml	20 December 2021 at 20:25	789 bytes	XML Document
 README.md	20 December 2021 at 20:25	5 KB	Markdo...cument
 LICENSE	20 December 2021 at 20:25	1 KB	Document
 404.md	20 December 2021 at 20:25	336 bytes	Markdo...cument





FOLDERS

▼ ivoormeeuw.github.io

▶ _includes

▶ _layouts

▶ _posts

▶ _scss

▶ bha

▶ images

.gitignore

<> 404.md

/ * _config.yml

<> about.md

<> feed.xml

<> index.html

LICENSE

<> README.md

style.scss

Test

<> ▶

about.md

•

1

2

layout: page

3

title: Welcome Biohackers!

4

permalink: /about/

5

6

7


8

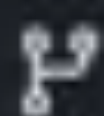
Hello!


9

10

This is Maarten's documentation site.

 Current Repository
ivoormeeuw.github.io

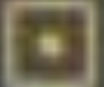
 Current Branch
master


 Push origin
Last fetched 3 minutes ago 1 ↑

Changes 1

History

1 changed file

about.md 

 @@ -5,3 +5,6 @@ permalink: /about/


55


66

77

8+## Hello!


9+

10+This is Maarten's documentation site. 



Changed about page

Description



Commit to master



Maarten's BHA documentation test

blog

[Blog](#)


[About](#)


Welcome Biohackers!


Hello!

This is Maarten's documentation site.



Current Repository
ivoormeeuw.github.io

Current Branch
master

Fetch origin
Last fetched just now

Changes 1


History

☒

1 changed file

☒

about.md



about.md

↑

.....

7

7

8

8

9

9

10


10

@@ -7,4 +7,4 @@ permalink: /about/

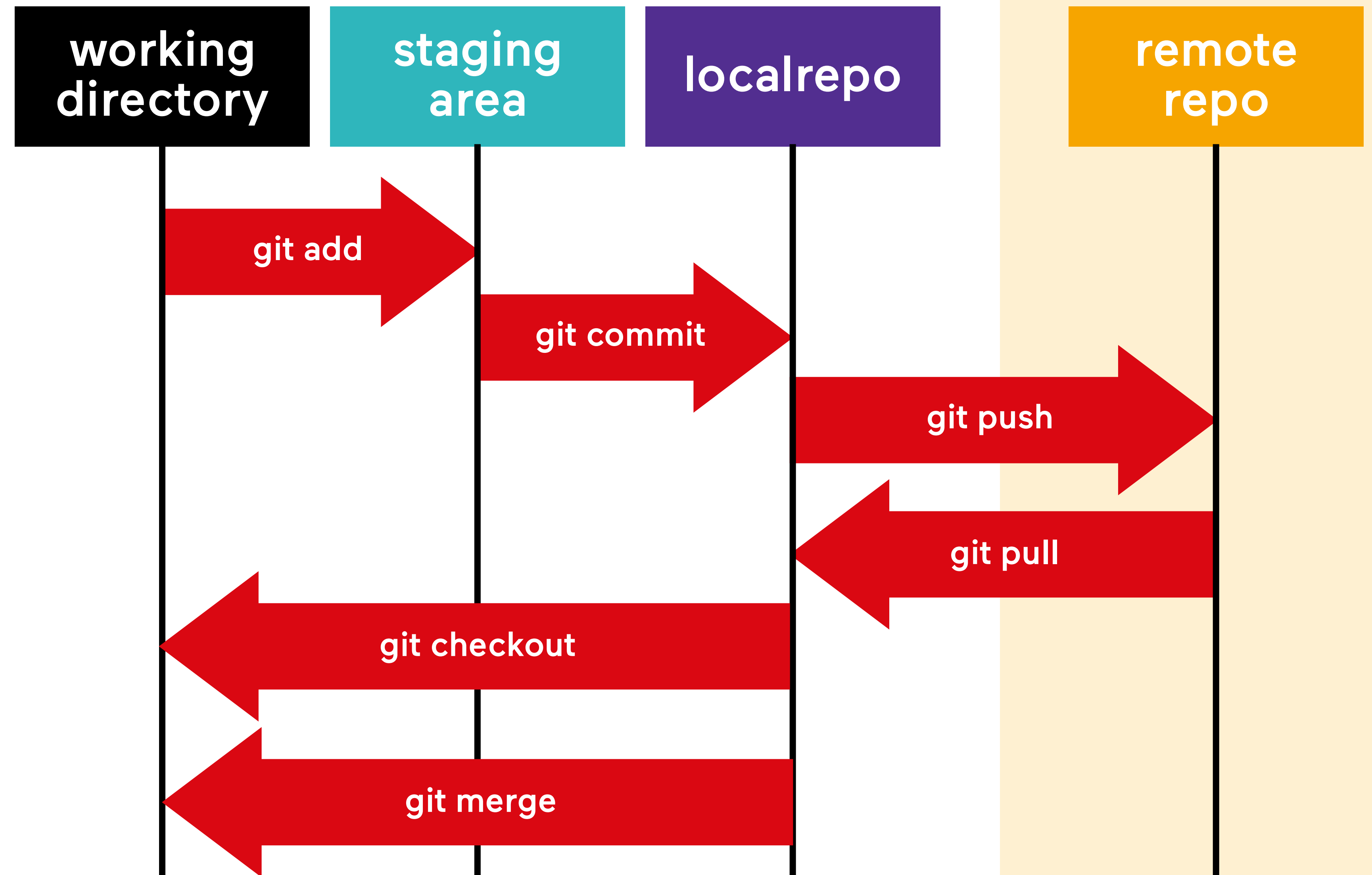
Hello!

-This is Maarten's documentation site. @@

+This is Kas's documentation site. @@

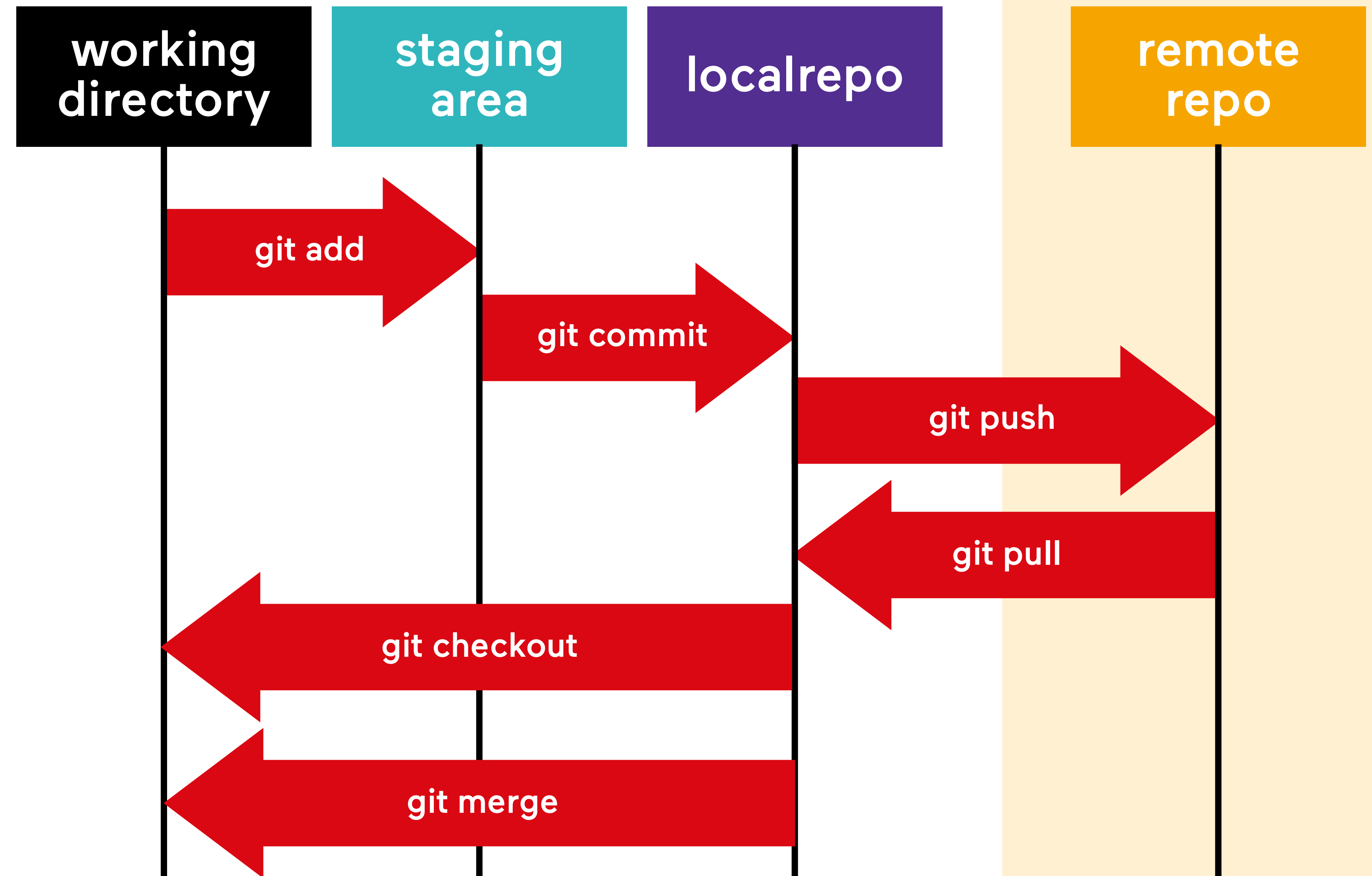
waag
technology & society

Basic git commands



Basic git commands

git status



Creating a Jekyll Github page



Jekyll Now

Create a Jekyll Blog in minutes

Blog

About

GitHub Repo

Introducing Jekyll Now

Jekyll is a static site generator that's perfect for GitHub hosted blogs.

Jekyll Now makes it easier to create a Jekyll blog, by eliminating a lot of the up front setup.

Guide to get started: https://github.com/BioHackAcademy/BHA_DocumentationSite



waag
technology & society

Creating a Jekyll Github page



Jekyll Now

Create a Jekyll Blog in minutes

Blog

About

GitHub Repo

- jekyllrb.com
- jekyll build
- jekyll serve

Introducing Jekyll Now

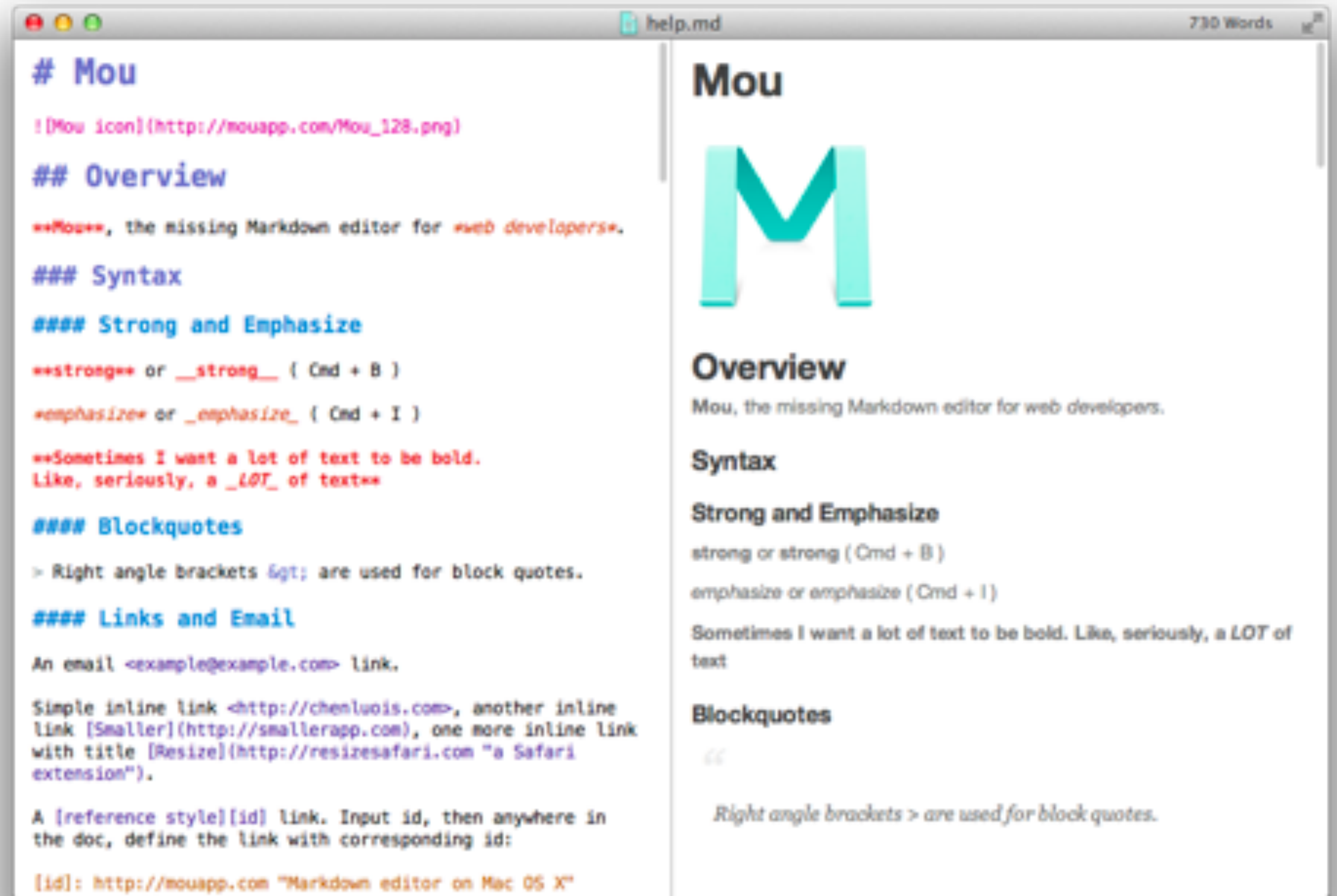
Jekyll is a static site generator that's perfect for GitHub hosted blogs.

Jekyll Now makes it easier to create a Jekyll blog, by eliminating a lot of the up front setup.

Guide to get started: https://github.com/BioHackAcademy/BHA_DocumentationSite



Markdown



imagemagick

<https://imagemagick.org/>

```
convert image.jpg -resize 1024x768 output_file.jpg
```

```
convert image.jpg -quality 75 output_file.jpg
```



Examples from other participants

- <http://biohackacademy.github.io/bha7/previous-editions/>
- <http://biohackacademy.github.io/bha6/participants/>
- <https://fabacademy.org/2022/people.html>



22 Feb, 2022 #3018 #milling #pcb #modsxproject

Week4: Electronics Production

Introduction Think Make Milling PCBs in Fablab Amsterdam The Roland MDX-20 and mods workflow Milling PCBs at home
Learnings from Waag and ...



Hugo is another static site generator that delivers clean sites that have their themes embedded in the repository, making the themes tweakable. Hugo can be installed with homebrew:

```
brew install hugo-extended
```

Setting up a hugo site is as easy as:

```
hugo new site documentation
```

in your repository directory. This generates a lot of folders so I decided to keep the documentation separate in the documentation folder in the repository.

Hugo doesn't work without a theme, so you can install themes by linking them as a git submodule. I chose the *hookworm* theme for its clean looks.

I first installed mkdocs using brew:

```
brew install mkdocs
```

mkdocs will compile the md files in the 'docs' folder in the git repository. This is done using the command:

```
mkdocs serve
```

which did not work out of the box:

```
(base) bpijls@Bass-MacBook-Pro bas-pijls % mkdocs serve
INFO      - Building documentation...
ERROR     - Config value: 'theme'. Error: Unrecognised theme name: 'material'.
           The available installed themes are: mkdocs, readthedocs
ERROR     - Config value: 'plugins'. Error: The "git-revision-date-localized"
           plugin is not installed
Aborted with 2 Configuration Errors!
```

The plugin error could be resolved by using the command:

```
pip3 install mkdocs-git-revision-date-localized-plugin
```

found [here](#)

Tasks for the week

- Make a GitHub documentation page (or other platform if you prefer)
- e-mail your GitHub page to kas@waag.org
- Experiment, setup your workflow
- Make an about page, upload a photo
- Make a first post

Small break?

ଶ୍ରୁତି

• ସ୍ୱାସ୍ଥ୍ୟ,
• ଶକ୍ତି, ଶକ୍ତି, ଶକ୍ତି, ଶକ୍ତି.
• ଶକ୍ତି ସ୍ୱାସ୍ଥ୍ୟ
• ଶକ୍ତି ଶକ୍ତି ମ.
• ଶକ୍ତି ଶକ୍ତି ଶକ୍ତି
• ଶକ୍ତି ଶକ୍ତି ଶକ୍ତି.
• ଶକ୍ତି ଶକ୍ତି - ଶକ୍ତି
• ଶକ୍ତି ଶକ୍ତି ଶକ୍ତି.
• ଶକ୍ତି ଶକ୍ତି ଶକ୍ତି
• ଶକ୍ତି, ଶକ୍ତି, ଶକ୍ତି ଶକ୍ତି.
• ଶକ୍ତି, ଶକ୍ତି, ଶକ୍ତି.
• ଶକ୍ତି ଶକ୍ତି ଶକ୍ତି.



```
// Pin Definitions
#define SERVO1_PIN 10
#define SERVO2_PIN 11
#define LASER_PIN 3
#define SERVO1_PIN 3
#define SERVO2_PIN 4

// Global variables and defines
// object initialization
VarSpeedServo servo1;
VarSpeedServo servo2;
SERVO1 SERVO1_PIN, SERVO2_PIN;

bool laserState = 0;
bool autoplayState = 0;

const int servoSpeed = 10;
const int engineIntervalDelta = 50;
const int manuallyServoMinStep = 5;
const int manuallyServoMaxStep = 20;
const int minIntervalSize = 10;

// Change these parameters to define the range
int servoMin = 50;
int servoMax = 100;
int servoMin = 20;
int servoMax = 50;
```

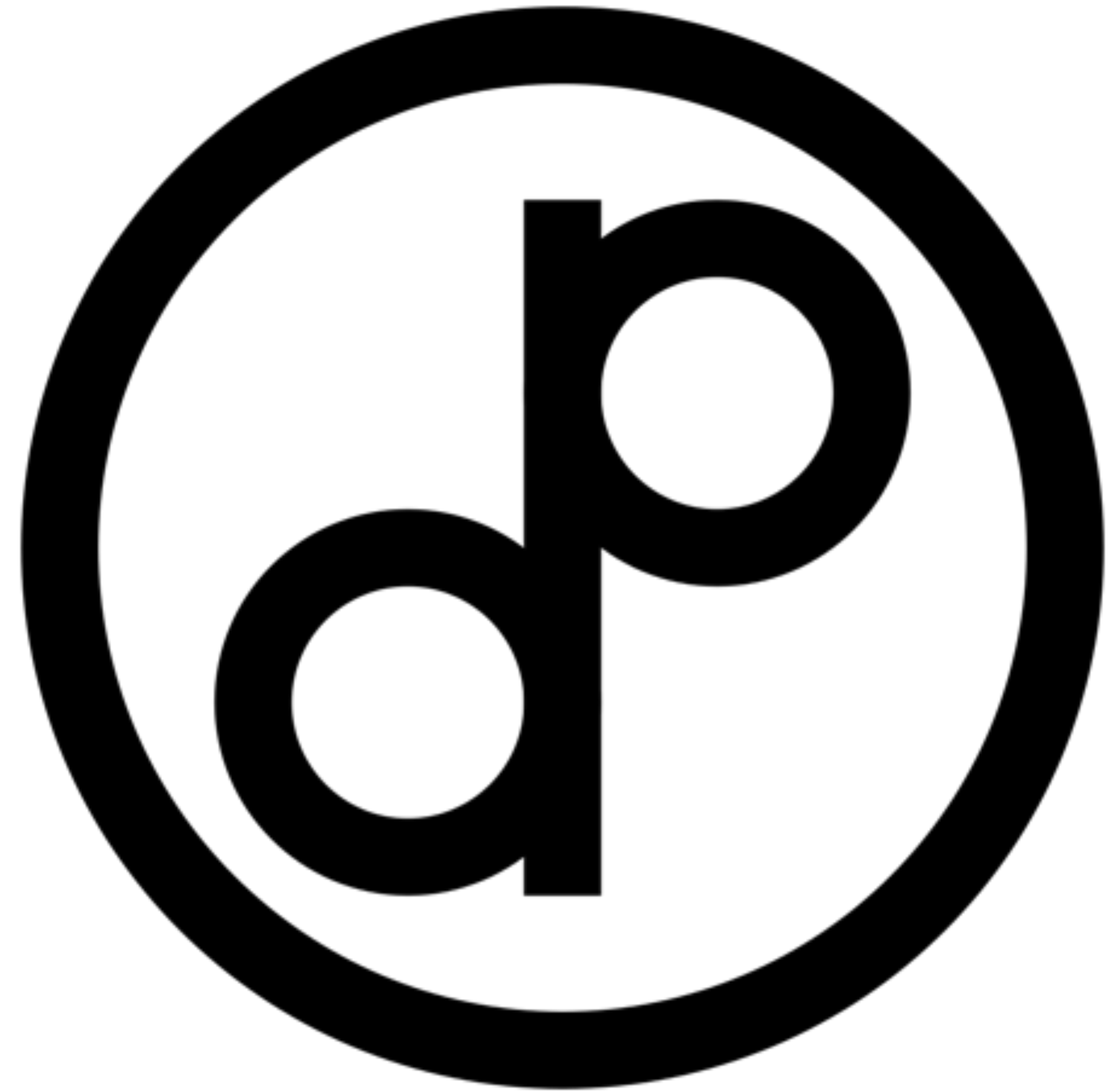


Public Domain

- Free for everyone
- No rights reserved

Public Domain

- Free for everyone
- No rights reserved



Creative Commons

- SA: Share Alike
- BY: Attribution
- NC: Non-Commercial
- ND: No derivatives



General Public License

- GNU Public License
- Right to: copy, modify, distribute, sell (along with GPL)
- License has to be included in the code
- Viral clause



Minimal Type License

- Right to: copy, modify, distribute, sell (along with GPL)
- License has to be included in the code
- Viral clause



BioBrick Public Agreement

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



BioBrickTM
PUBLIC
AGREEMENT



Bio piracy

Additional resources

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

Without the lavender, that red
might not appear as relevant at
perhaps rather the business

Indebtedness

Case: A girl with an anxiety disorder is preparing herself for a party with unknown people. She's asking an affil. which will they think? Will they think she's a loser?

Effect of folding

Van Dyke (2001) - affd
a. subscale forecast.

The affordance

The affords

should be removed and the

The

The imaging with

Load deflection

What is documentation?
What is good documentation?