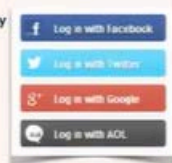


Web building Tools

FABLABS.IO PLATFORM

- **Online platform that maps the FabLab network world-wide**
- **Forums for engaging with the wider FabLab network**
- **Provides a centralised sign-in account for all our platforms (ie. GitLab)**

Similar to third-party
Sign-on buttons



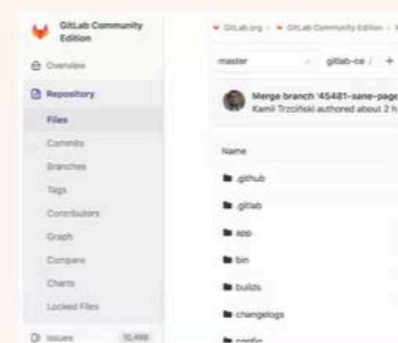
Fablabs.io is the Fab Lab network platform, which is used to map out all the labs around the world, and this also allows to have a single login account that everyone can use to log into all the other platforms. There is where we must type our username and password.



GITLAB PLATFORM

- **Similar to GitHub, Bitbucket**
- **Source code hosting your Git projects, plus:**
 - **Issues tracker**
 - **Collaboration tools (ie. Merge requests, Review apps, etc)**
 - **Website hosting (GitLab Pages)**
 - **CI pipeline for automatic project building/compiling**
- **We self-host our own version of Gitlab**
 - **We host all the Git repositories related to the academies**
 - **Where you will can edit YOUR documentation website**

gitlab.fabcloud.org



The Gitlab platform is a Git hosting service that hosts repositories, keeps track of all the changes we make to our code, and has a lot of tools that allow us to edit our websites inside the browser. So everything revolves around Gitlab for the documentation, and it is also hosting our websites.

The image shows a presentation slide for the NUEVAL platform. On the left, the logo 'NUEVAL' is displayed above the URL 'nueval.fabacademy.org'. Below this, a list of features is presented with blue arrow icons:

- > **A custom built platform created to track the students' weekly progress and evaluation**
- > **Login through your same fablabs.io account**
- > **Assessment and feedback will be carried out here**
- > **Feedback email notifications**
- > **Assessment criteria in the Handbook:**
 - > <http://fabricademy.fabcloud.io/handbook/assessment/criteria/>

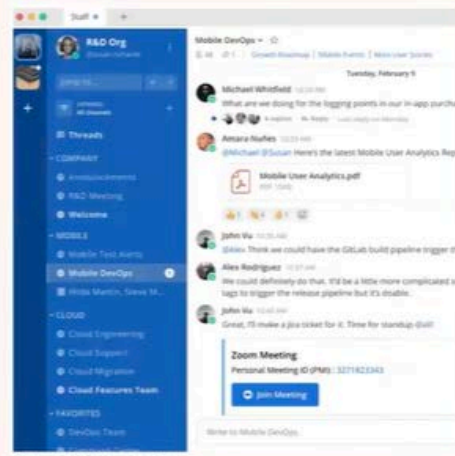
On the right side of the slide, a screenshot of the NUEVAL web interface is shown. The interface has a dark header with the year '2019'. The main content area is titled 'Local Assessment & Evaluation' and includes a table with columns for 'Local Evaluation', '2018-12-08', and 'Instructor Feedback'. The table lists various assessment criteria with progress bars indicating completion status. To the right of the table, there is a section for 'Final Project planning and pitch' which includes an 'OVERALL PROGRESS' circular gauge showing 0%, a 'PENDING' status, and a 'UNIT DESCRIPTION' section with a task description and learning outcomes.

The third critical tool is Nueval. It is used to weekly evaluate our work, and it is the way for our local and global evaluators to communicate with us.

MATTERMOST

chat.academany.org

- an open-source alternative to Slack and Microsoft Teams
- Fab Foundation have our own hosted version
 - Login through GitLab (this time)
- Provides a smart-phone app with push notification
- Users can be part of various channels to discuss topics
- Channels are organised into “teams”, where a user can be part of multiple teams



Example Mattermost team

Another tool is the chatting tool. It is Mattermost, where all communications from the fabricademy will take place. To log in Mattermost is through fablabs.io, as with the other tools.

Our website

WHAT IS A WEBSITE

- Website is written in HTML code
- Your browser reads the HTML to render the website
- Can use CSS code to add colors/font-sizes/layout
- Browser downloads any image URLs in your HTML
- Learn HTML: <https://www.w3schools.com/html/>

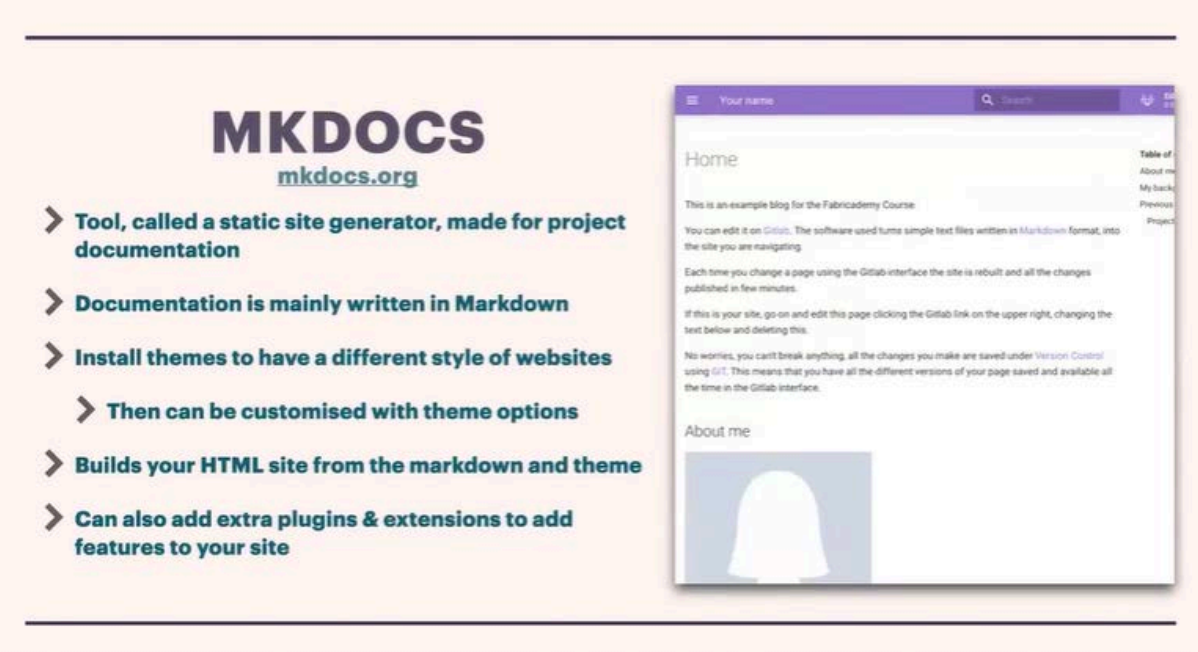
```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

Try demo of HTML with W3schools: https://www.w3schools.com/html/tryit.asp?filename=tryhtml_default

Our website is our communication tool. It is written in HTML code, which is then rendered by the browser. We can change the format of our website using different tools inside the git or change settings using CSS code to add colors, fonts, sizes, etc.



The image shows a presentation slide for MKDOCS. On the left, the MKDOCS logo is displayed with the URL mkdocs.org. Below the logo is a list of features, each preceded by a right-pointing chevron: 'Tool, called a static site generator, made for project documentation', 'Documentation is mainly written in Markdown', 'Install themes to have a different style of websites', 'Then can be customised with theme options', 'Builds your HTML site from the markdown and theme', and 'Can also add extra plugins & extensions to add features to your site'. On the right side of the slide is a screenshot of a website built with MKDOCS. The website has a purple header with a search bar and a user profile icon. The main content area is titled 'Home' and contains several paragraphs of text, including a welcome message and instructions on how to edit the site using GitHub. There is also an 'About me' section with a placeholder image. A sidebar on the right contains a 'Table of Contents' and links to 'About me', 'My back', 'Previous', and 'Project'.

When building our site, there is a framework tool called MK Docs. This tool is used to build our website; it writes HTML, so we do not have to deal with it from zero. There we can add text, images, insert a presentation, audio, video, etc.

To write in MK Docs, it is necessary to employ Markdown, which is a simplified way of describing content headings, bullet points, tables, font style, etc.

MKDOCS FOLDER STRUCTURE

mkdocs.yml	Mkdocs configuration file. For personalising your website & configuring extensions
docs/	Contains all your markdown documentation. All files to publish should be inside this folder
docs/index.md	This is your homepage. Edit this file with your profile and information
docs/images	This folder is meant to contain all images in your website. Be aware of the file size of uploads.
.gitlab-ci.yml	GitLab CI pipeline instructions for how to build and publish your project. Change at your discretion.

MK Docs has a folder structure to ease the work. The structure is similar to Windows Explorer, so any change we make in our site has to be directed to the folders and files in our project.

Once we make desired changes, it is necessary to renew the content of our repository, so we have to commit our work with the commit button to the main branch. After a few minutes, our site will be updated.

USING MARKDOWN FOR HTML

- A markup language which allows easy to read and write plain-text document
- Tools exist to convert markdown to valid HTML in a predictable manner

Research

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."

> "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim

Research

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."

Mark down is a style coding that allow you to define titles, paragraphs, quotes, lists, bolds, italics and all kind of formats. This is achieved by adding symbols arround your code.

LANGUAGE: MARKDOWN

HEADERS

```
# This is an <h1> tag
## This is an <h2> tag
##### This is an <h6> tag
```

EMPHASIS

```
*This text will be italic*
_This will also be italic_

**This text will be bold**
__This will also be bold__

*You **can** combine them*
```

LISTS

Unordered

- * Item 1
- * Item 2
- * Item 2a
- * Item 2b

Ordered

1. Item 1
 2. Item 2
 3. Item 3
- * Item 3a
 - * Item 3b

IMAGES

```
![[GitHub Logo]](/images/logo.png)
```

Format: ![Alt Text](url)

LINKS

```
http://github.com - automatic!
```

```
[GitHub](http://github.com)
```

See more info at: fabricademy.fabcloud.io/gitlab-documentation-tutorial/03-markdown/

This Markdown code can be found at
fabricademy.fabcloud.io/gitlab-documentation-tutorial/03-markdown/

