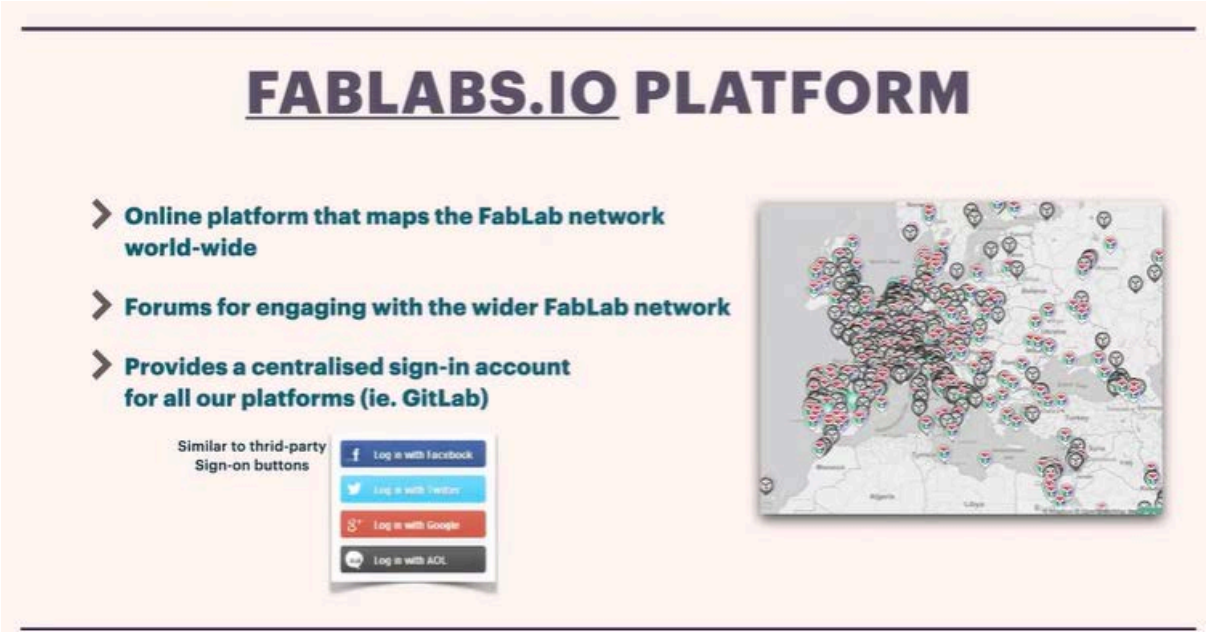
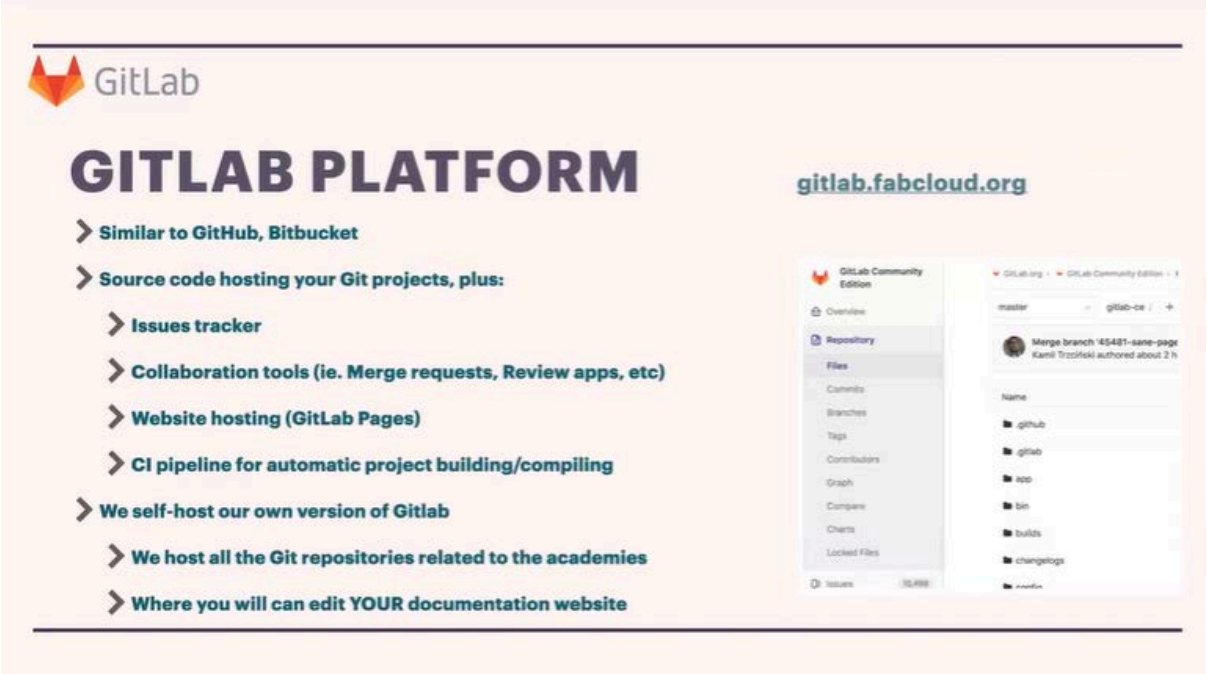
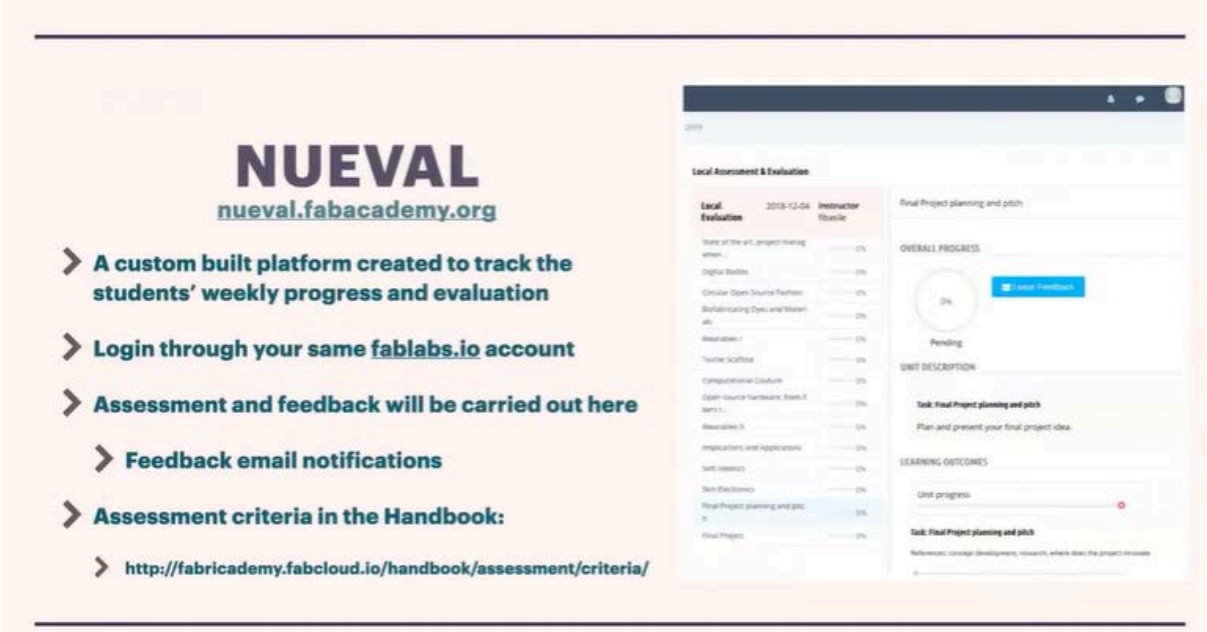
Web building Tools



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.



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.

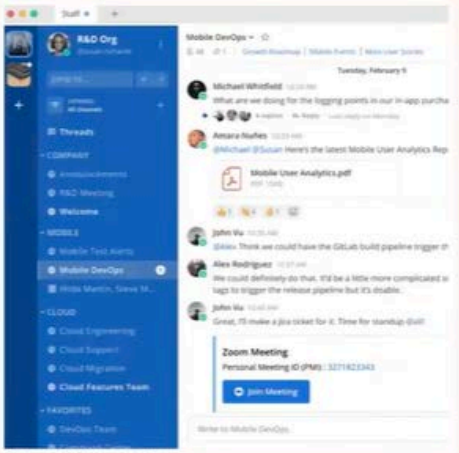


The third critical tool is Nueval. It is used to weekly evaluate our work, and it is the way for our local and global evaluators to communicate with us.

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/

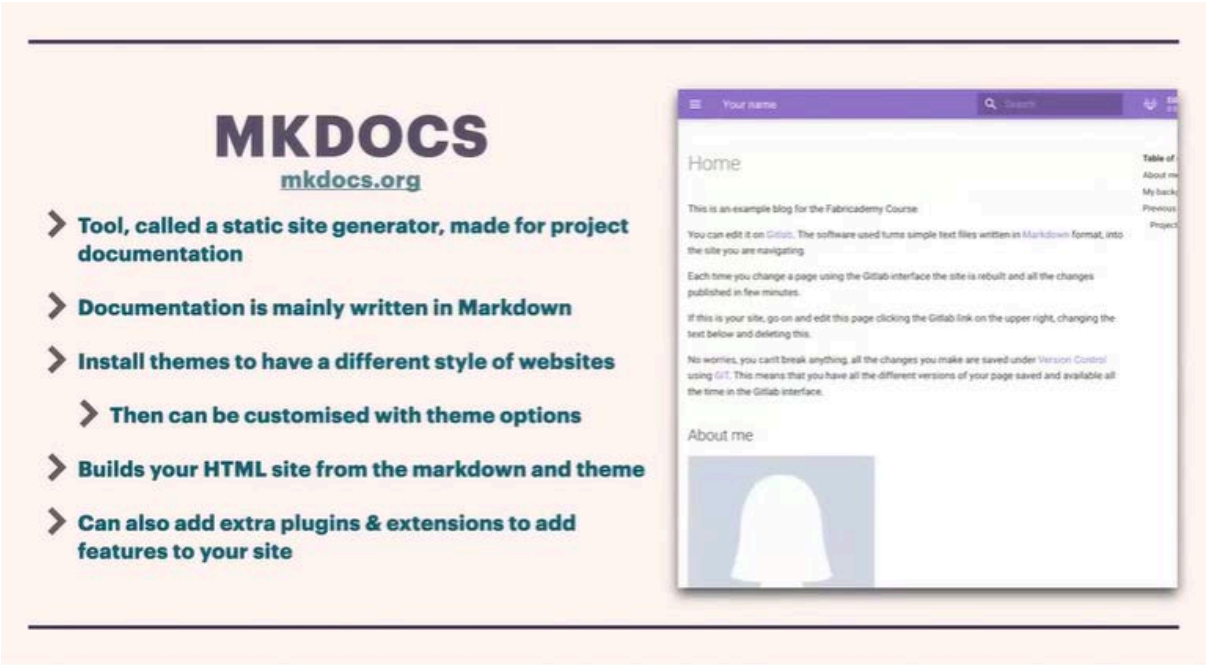
```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

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

</body>
</html>
```

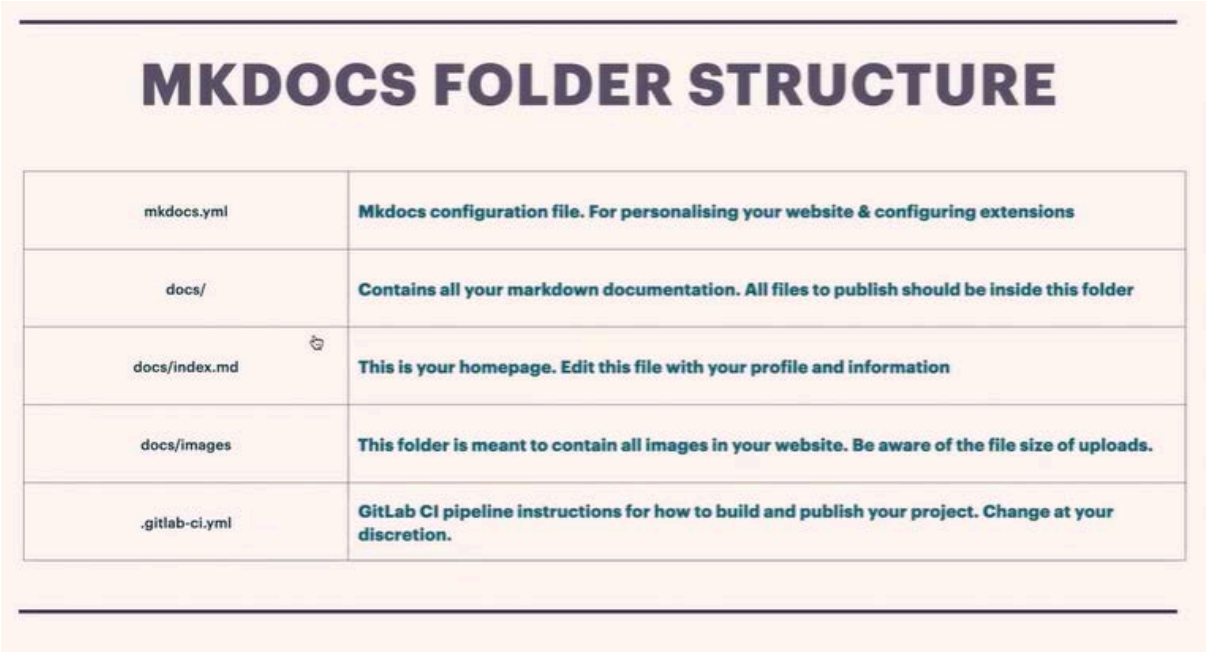
Try demo of HTML with W3schools: https://www.w3schools.com/html/tryit.asp?filename=tryhtml_default

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.



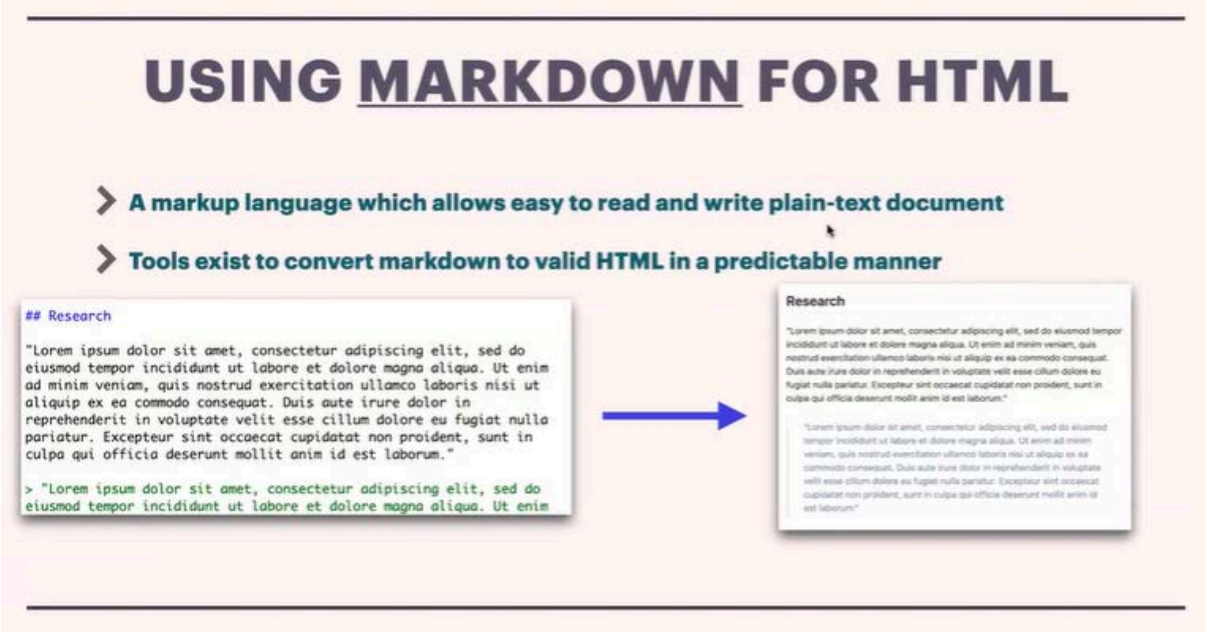
When building our site, there is a framework tool called MK Docs. This tool is used to build our website; it writes HTML, so we do not have to deal with it from zero. There we can add text, images, insert a presentation, audio, video, etc.

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.

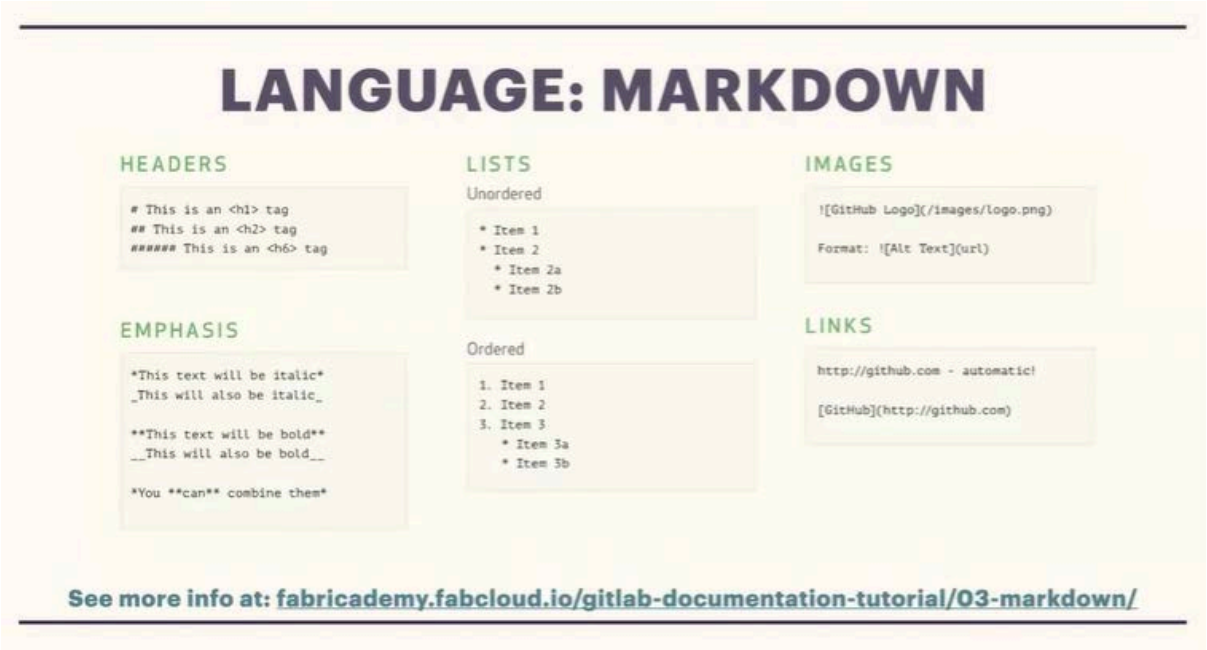


MK Docs has a folder structure to ease the work. The structure is similar to Windows Explorer, so any change we make in our site has to be directed to the folders and files in our project.

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.



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.



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