



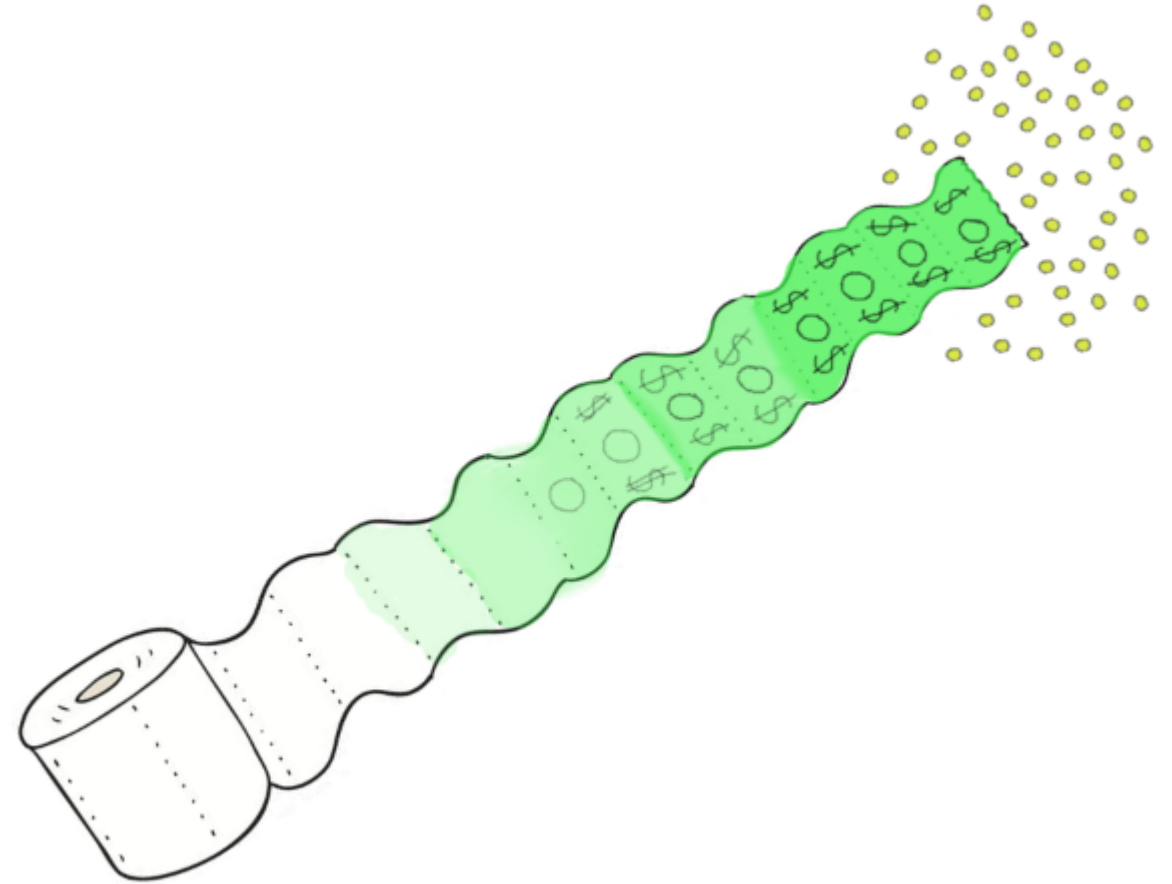
PHUSE EU Connect 2020

From Rags To Riches – Improving Your User Manuals



Dominik Habel

PHUSE Paper AD02 / November 2020





Agenda

- // **Motivation**
- // **Step 1: Markdown**
- // **Step 2: Gitlab**
- // **Step 3: Building the Pipeline**
- // **Conclusion**



Motivation



Motivation



User Manual?



Motivation

User Manual for Application XYZ

..|

Motivation

- How to manage **Layout** and Content **Structure**?
- How to cope with the usual **Word Struggles**?
- **Where** to put it?
- How to **collaborate**?
- How to track **changes**?





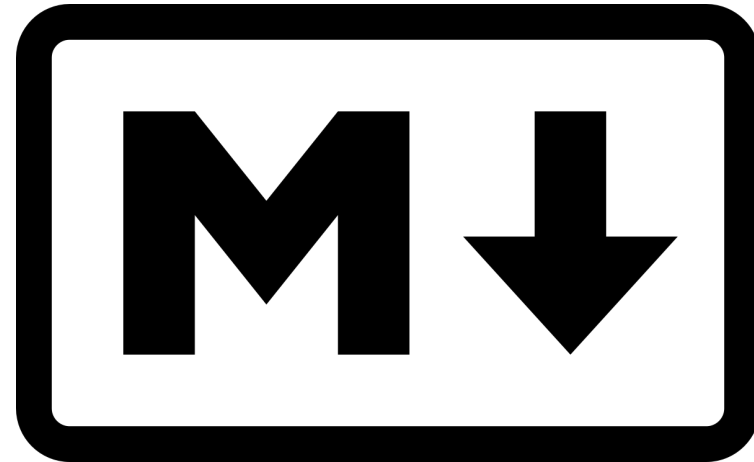
Step 1: Markdown



Step 1: Markdown

- Word Alternatives do not solve any problems
- HTML, LaTeX too complicated

Markdown



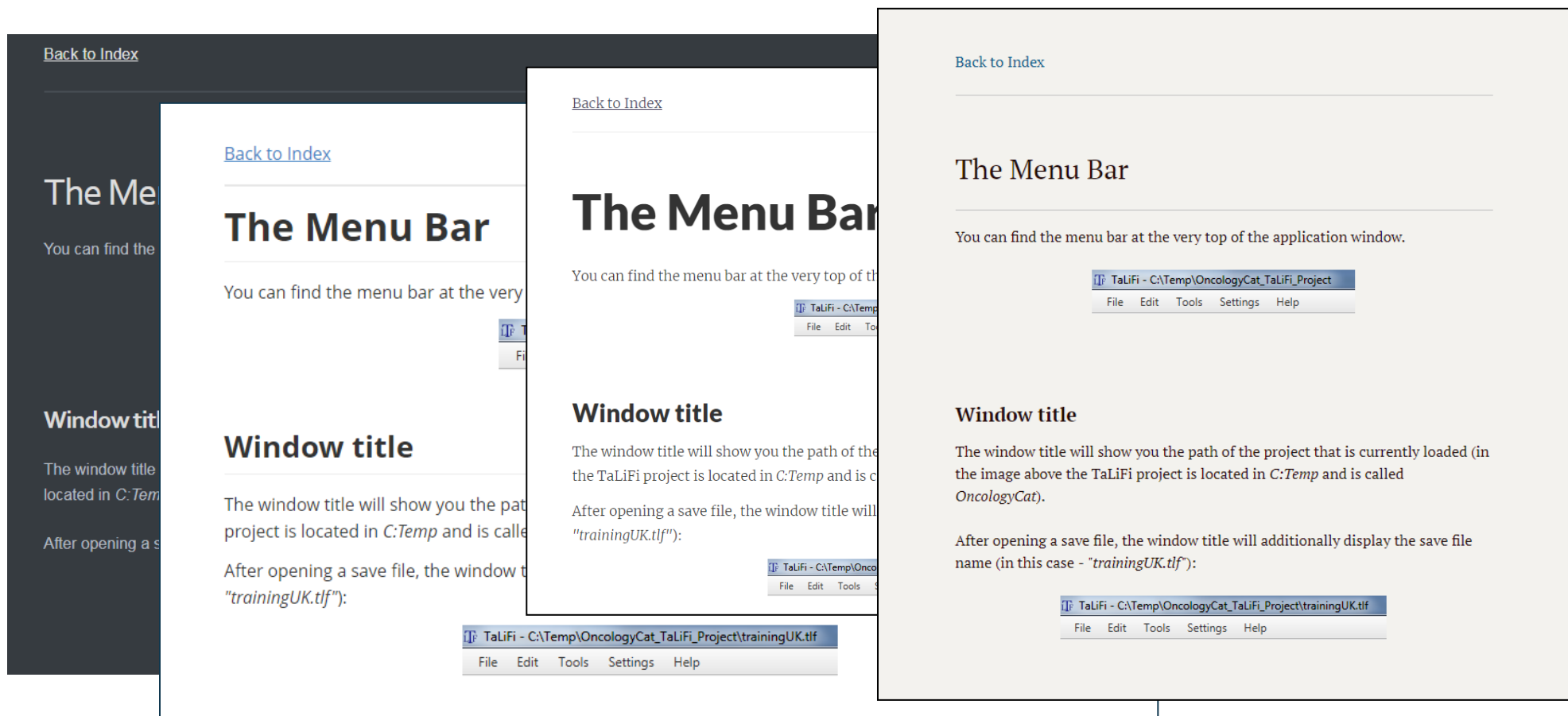


Step 1: Markdown

```
1 # Tool - Introduction
2
3 
4
5
6 This is the template index page!
7
8 * 1st List Item
9 * 2nd List Item
10 * 3rd List Item
11
12
13 [To Start.md](start.md)
14
15 Have fun with Markdown! :)
```

- Simple
- Easy to learn
- Powerful due to HTML “integration”

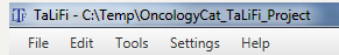
Step 1: Markdown



[Back to Index](#)

The Menu Bar

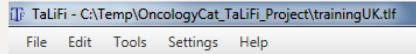
You can find the menu bar at the very top of the application window.



Window title

The window title will show you the path of the project that is currently loaded (in the image above the TaLiFi project is located in *C:Temp* and is called *OncologyCat*).

After opening a save file, the window title will additionally display the save file name (in this case - "trainingUK.tif"):





Step 1: Markdown

- **Typora**

- Develop Markdown Pages
- Export them to HTML Documents

- **Java**

- With some simple Markdown Converter Library ([txtmark](#))
- Used a HTML Template
- Converted all Markdown Files at once

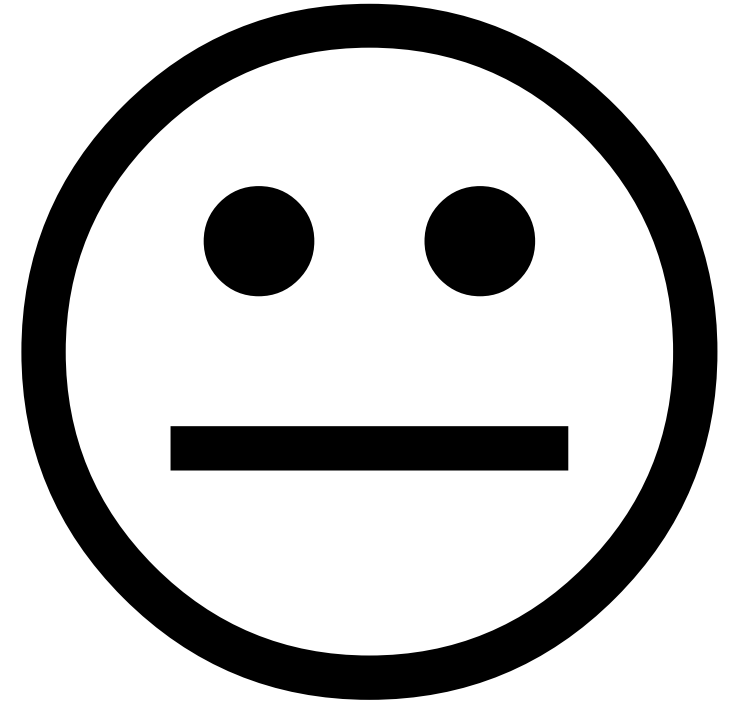
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Step 2: Gitlab



Step 2: Gitlab

Git is the final piece of this puzzle!

- We're still missing:
 - A Place to store the manual
 - Collaboration
 - A way of Tracking changes



Step 2: Gitlab

Collaboration

Take advantage of Git Features, like

- User Management
- Access Management
- Issues
- Branches
- Merge Requests



Step 2: Gitlab

Change Tracking

Markdown Files are Flat Files!

master

playground / docs / index.md

26 Aug, 2020 1 commit

Update index.md
Dominik Habel authored 3 hours ago

21 Aug, 2020 1 commit

Update docs/start.md, docs/index.md, mkdocs.yml files
Dominik Habel authored 5 days ago

28 May, 2020 1 commit

Initial push
Dominik Habel authored 2 months ago

```
... @@ -5,6 +5,11 @@  
5  
6 This is the template index page!  
7  
8 + * 1st List Item  
9 + * 2nd List Item  
10 + * 3rd List Item  
11 +  
12 +  
13 [To Start.md](start.md)  
14  
15 Have fun with Markdown! :)
```



The screenshot shows the GitHub web editor interface. At the top, there are 'Write' and 'Preview' tabs. Below the tabs is a file browser showing 'docs/index.md' is selected. To the right of the file browser is a toolbar with various formatting icons: Bold (B), Italic (I), Quote (”), Code (</>), Link (🔗), List (☰), Table (📊), and a 'Soft wrap' button. The main editor area displays a Markdown file with the following content:
1 Tool - Introduction
2
3
4
5
6 This is the template index page!
7
8 * 1st List Item
9 * 2nd List Item
10 * 3rd List Item
11
12
13 [To Start.md](start.md)
14
15 Have fun with Markdown! :)
16



Step 2: Gitlab

We have access to an internally hosted Gitlab Instance!

**Gitlab
Pages**

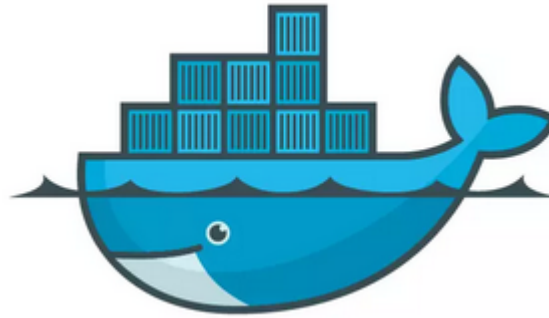
**Gitlab CI / CD
+
Shared Runners**

Step 2: Gitlab

Gitlab CI / CD + Shared Runners



changes are
committed to the
master branch



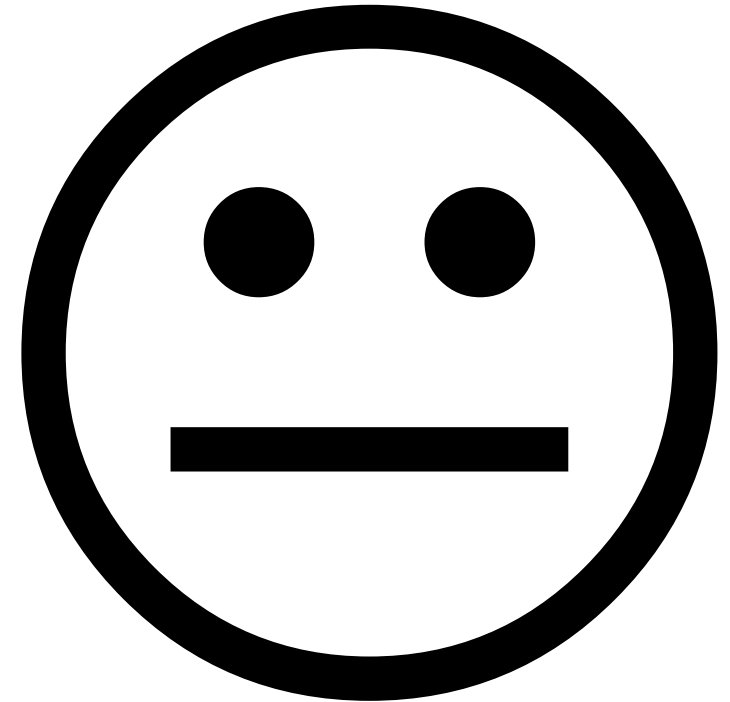
Gitlab Pipeline creates
website out of
Markdown files



Users access
manual via
Website

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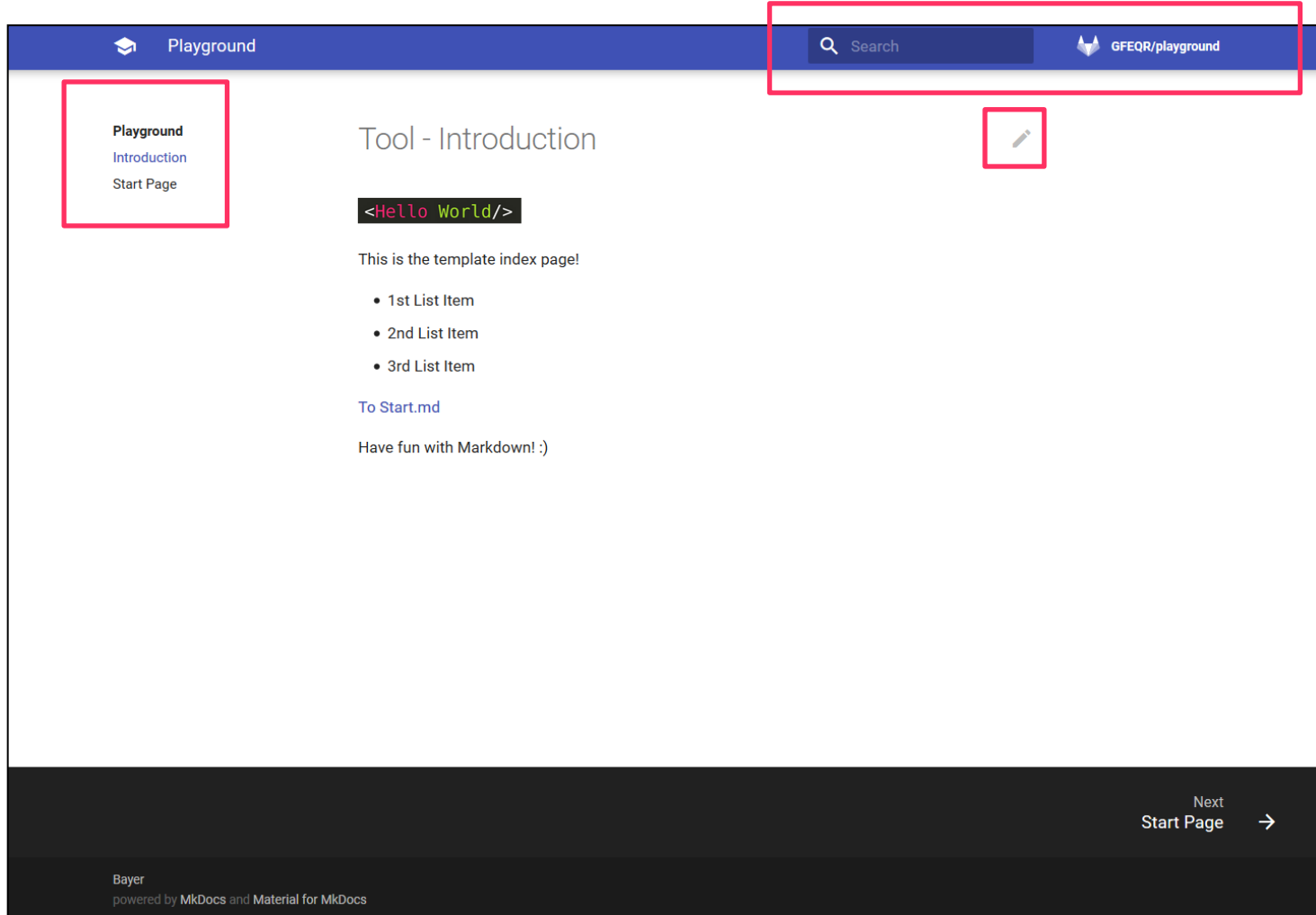


Step 3: Building the Pipeline



Step 3: Building the Pipeline

Markdown Converter



MkDocs

+

**Material
Theme**



Step 3: Building the Pipeline

.gitlab-ci.yml

```
.gitlab-ci.yml 406 Bytes
1 # Example Pipeline for Docs and build
2 # will be integrated into central pipeline templates
3
4 stages:
5   - mkdocs
6   - build
7
8
9 # Create MKDOCS if changes on docs
10 pages:
11   image: "ddcdtr.bayer.cnb/gitlab/mkdocs-by"
12   stage: mkdocs
13   variables:
14     GIT_SSL_NO_VERIFY: "true"
15   tags:
16     - latest
17   script:
18     - mkdocs build
19     - mv site public
20   artifacts:
21     paths:
22       - public
23
24 only:
25   - master
```

mkdocs-by = Alpine + Python + PIP



Step 3: Building the Pipeline

mkdocs.yml

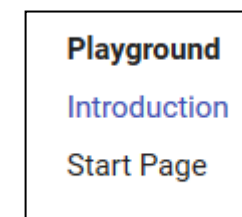
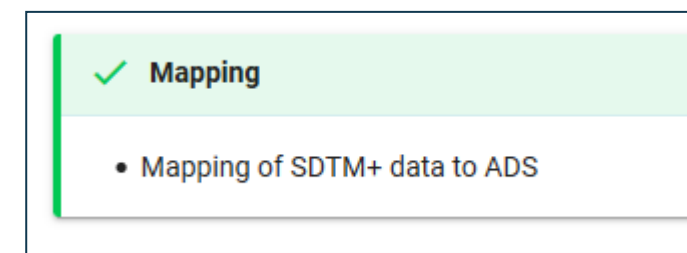
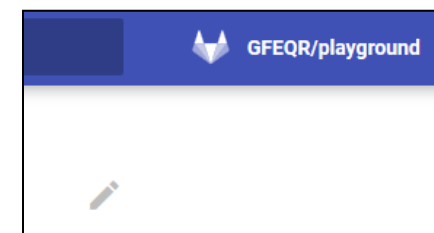
```
mkdocs.yml 817 Bytes
1 # Project information
2 site_name: Playground
3 site_description: Playground
4 site_author: Dominik Habel
5 site_url: https://GFEQR.pages-gitlab.intranet.cnb/playground/
6 copyright: Bayer
7
8 # Repository
9 repo_name: GFEQR/playground
10 repo_url: https://by-gitlab.de.bayer.cnb/GFEQR/playground
11 edit_uri: edit/master/docs
12
13 # Configuration
14 theme:
15   name: material
16
17 # Extensions
18 markdown_extensions:
19   - admonition
20   - codehilite
21   - footnotes
22   - extra
23   - pymdownx.magiclink
24   - pymdownx.caret
25   - pymdownx.tilde
26   - pymdownx.superfences:
27     custom_fences:
28       - name: mermaid
29         class: mermaid
30         format: !!python/name:pymdownx.superfences.fence_div_format
31
32 # Page tree
33 nav:
34   - Introduction: index.md
35   - Start Page: start.md
36
37 extra_css:
38   - assets/css/style.css
39 extra_javascript:
40   - assets/js/mermaid.min.js
```

Website Info

Git Repo Info

Specify Extensions

Navigation Pane





Step 3: Building the Pipeline

Status	Pipeline	Triggerer	Commit	Stages		
passed	#184945 latest		master 38666ea1 Update index.md		00:00:29 2 days ago	
passed	#183890		master 2c72a8d9 Update docs/start.md, docs/inde...		00:00:28 1 week ago	
passed	#183884		master 7e87c6a6 Adjusted Template to my own Pr...		00:00:41 1 week ago	
failed	#183876		master 78c84196 Update .gitlab-ci.yml, mkdocs.ym...		00:00:42 3 months ago	



Conclusion

Conclusion

- Template Repository for new projects to use
- Migration over time (new version or new tool)
- Training is relatively easy
- Unified design and accessibility





Thank you!



Contact:

dominik-habel@web.de (private)

dominik.habel@bayer.com (business)

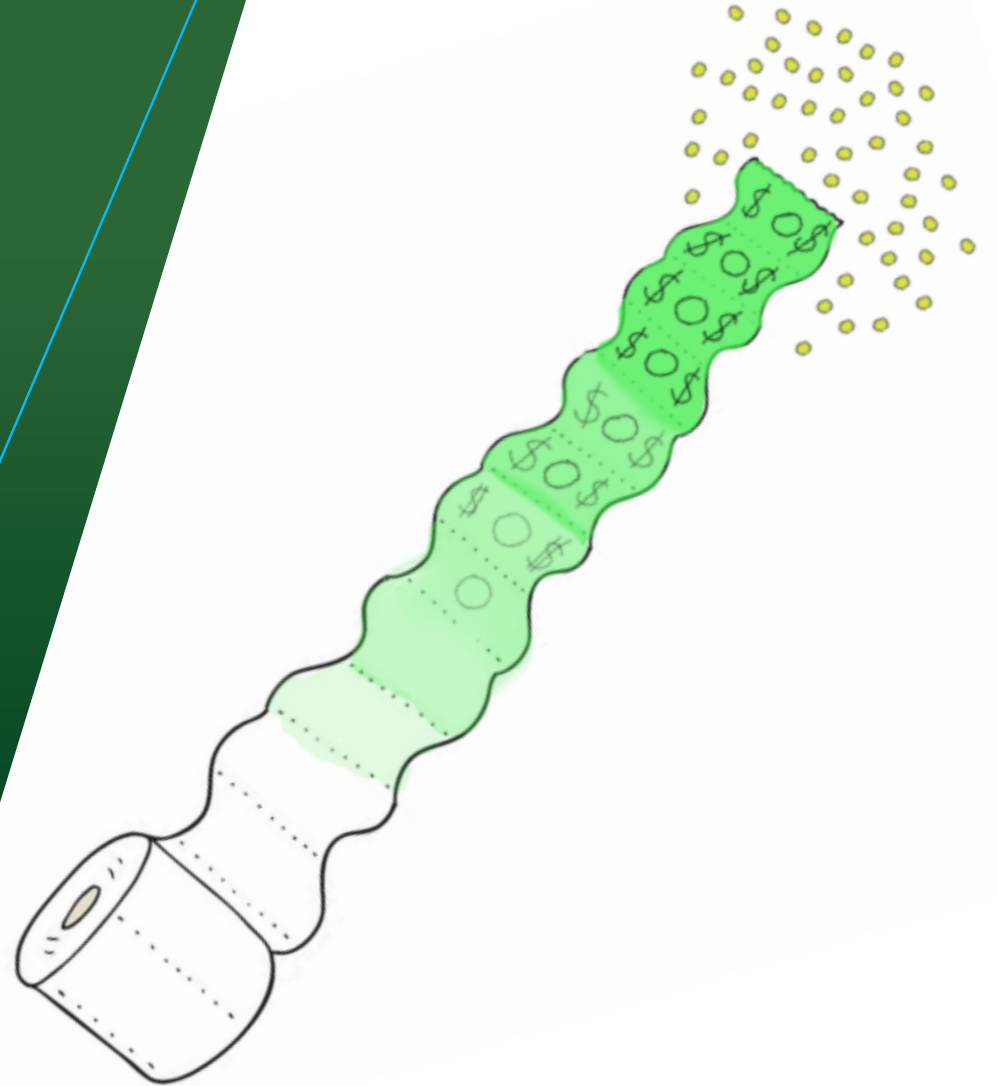
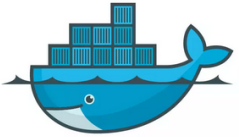


Image Attributions



<https://upload.wikimedia.org/wikipedia/commons/thumb/4/48/Markdown-mark.svg/1200px-Markdown-mark.svg.png>



https://upload.wikimedia.org/wikipedia/commons/thumb/4/4e/Docker_%28container_engine%29_logo.svg/1280px-Docker_%28container_engine%29_logo.svg.png



<https://cdn.thenewstack.io/media/2017/02/7b0a9829-gitlab.png>

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