

- Skills for the European
- Open Science
- Commons

## Zenodo Publishing

WP2 T3



# Learning Objectives



Describe the automated workflows for publishing the learning materials on Zenodo

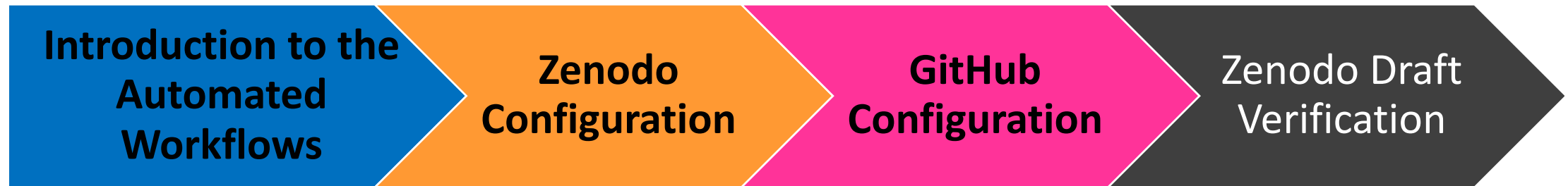


Author new version releases of the learning materials



Examine draft publications on Zenodo

# Agenda



# Introduction to the Automated Workflows

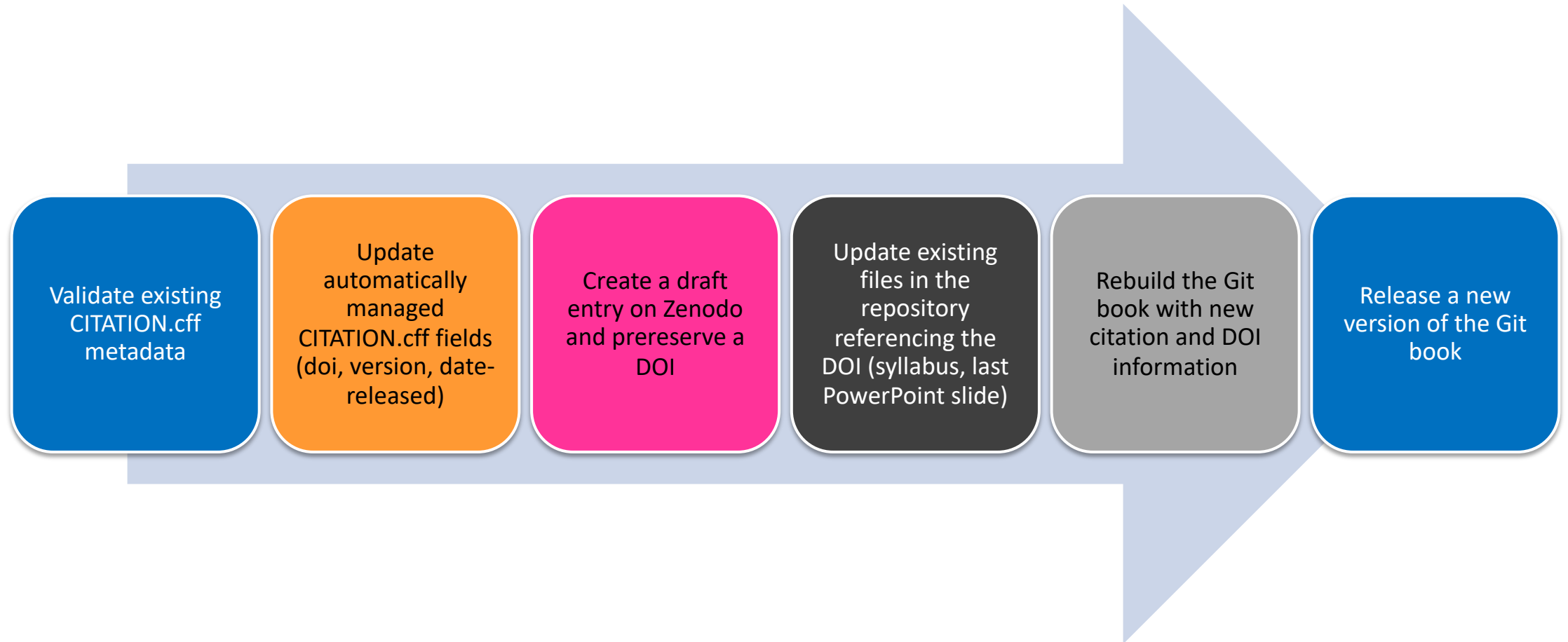


Image by [Sean Harrington](#) from [Pixabay](#)

- Automated Workflows = a set of actions executed automatically upon a given event (e.g., new commit)
  - Free feature provided by GitHub
- The [templates](#) repository has various workflows predefined and ready to be used by any forks
  - Not enabled by default on new forks (security precaution)
- **Goal:** Make the publishing process as automated as possible, eliminating time consuming actions which are prone to errors

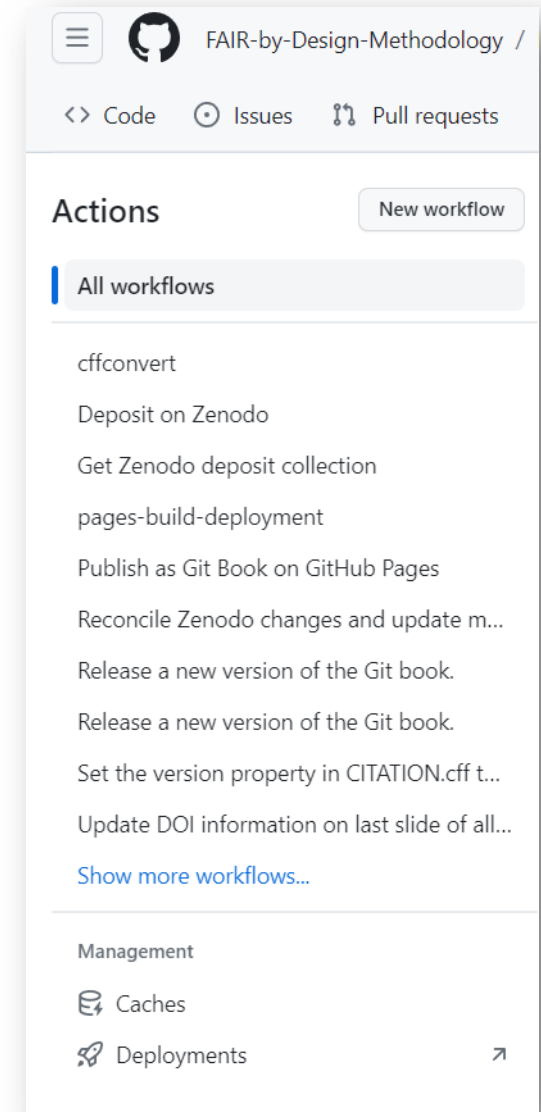
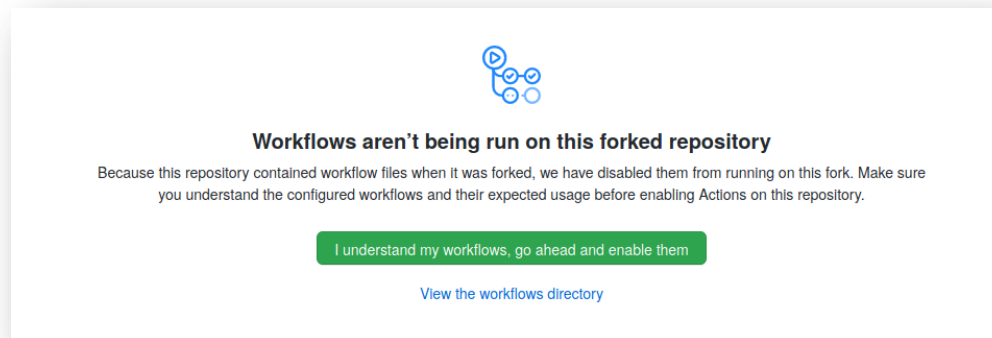


# Meeting the Automated Workflows



# First Things First

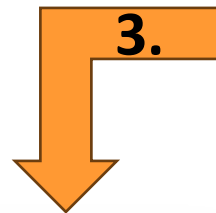
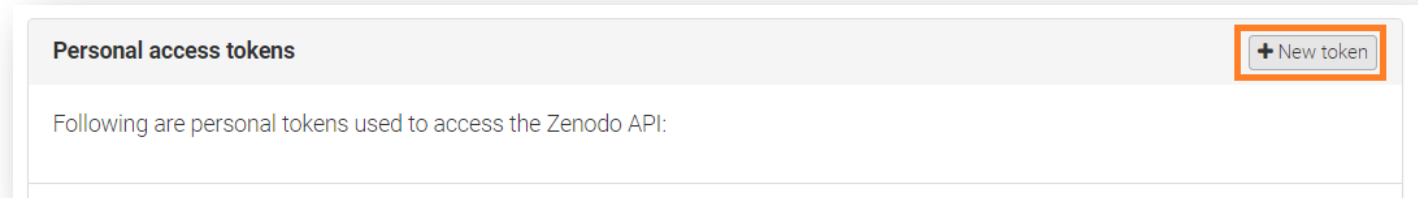
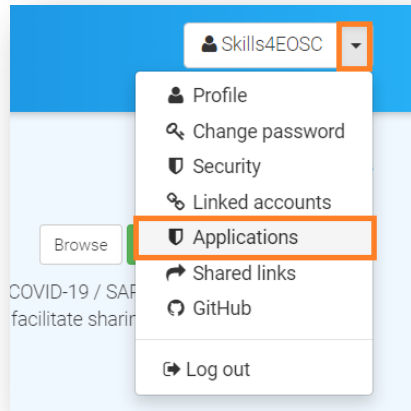
- Verify that the inherited workflows from the upstream repository are enabled in the fork
  - Fork's homepage -> Actions -> "I understand my workflows, go ahead and enable them"
  - If no green button is present, then the workflows have already been enabled



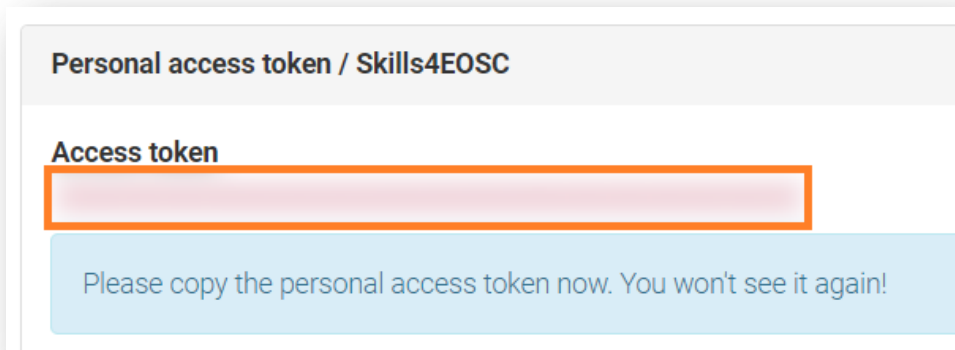
# Configuring Zenodo (1)

- The automated workflows need to communicate with Zenodo
  - Special credentials are required
  - Can be generated from the user configuration page on Zenodo
- Create a new or login with an existing account on zenodo.org
- Generate a new “**Personal Access Token**”
  - Profile dropdown menu -> Applications -> New token
    - Name: *arbitrary*
    - Scopes: `deposit:write`
- Write down the generated token, it will be required shortly
  - Make sure to keep it secret!

# Configuring Zenodo (2)



A screenshot of the 'New personal access token' form. The title is 'New personal access token'. There is a text input field for 'Name' containing 'Skills4EOSC'. Below it, under 'Scopes', there are three checkboxes: 'deposit:actions' (unchecked), 'deposit:write' (checked and highlighted with an orange box), and 'user:email' (unchecked). The 'deposit:write' option has the description 'Allow upload (but not publishing)'. At the bottom, there are 'Cancel' and 'Create' buttons.

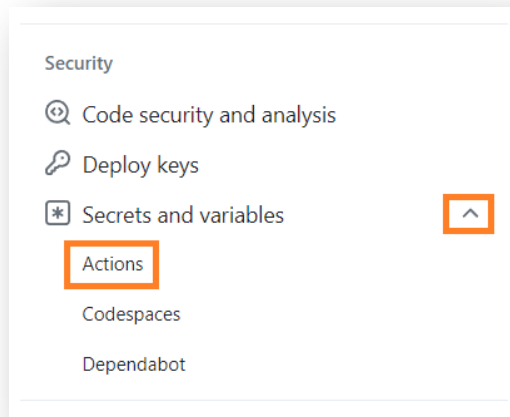




# Configuring GitHub (1)

- The generated Personal Access Token should be added as a GitHub Secret
- Workflow steps can reference the GitHub Secret and use it for interacting with Zenodo
- Fork's homepage -> Settings -> Secrets and Variables -> Actions -> New Secret
  - **Name:** ZENODO\_ACCESS\_TOKEN
  - **Secret:** *the generated personal access token*

# Configuring GitHub (2)



*Navigation pane in the forked repository's settings*

A screenshot of the GitHub Actions secrets 'New secret' form. The form is titled 'Actions secrets / New secret'. It has two main sections: 'Name \*' and 'Secret \*'. The 'Name \*' section has a text input field containing 'ZENODO\_ACCESS\_TOKEN'. The 'Secret \*' section has a large text area for pasting the secret. At the bottom of the form is a green button labeled 'Add secret'.

*Registering the generated Zenodo Personal Access Token*

# Creating a New Version Release (1)

- First release, after the initial iteration over the learning materials
- The publishing workflows are kicked off by creating a new “GitHub Release”
- Fork’s homepage -> Releases -> Create a new release
- The **release version** is specified as the release “tag”
  - e.g., 1.0.0
- The **release title** should be set to the same value as the tag
  - e.g., 1.0.0
- Clicking the **Publish release** button starts the workflows

# Creating a New Version Release (2)

About

FAIR-by-Design Methodology Demo Training

- Readme
- CC0-1.0 license
- Code of conduct
- Cite this repository
- Activity
- 0 stars
- 0 watching
- 4 forks

Report repository

**Releases**

No releases published  
[Create a new release](#)

There aren't any releases here

You can create a release to package software, along with release notes and links to binary files, for other people to use. Learn more about releases in [our docs](#).

Create a new release

Releases Tags

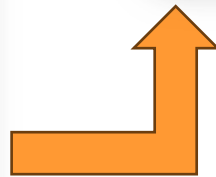
Choose a tag Target: main

Choose a tag

1.0.0

+ Create new tag: 1.0.0 on publish

Describe this release



# Intermission: What's with all those numbers?

- 1.0.0 = semantic versioning
- 1. = major version number
  - Major changes to the material or a complete rewrite
- 0. = minor version number
  - Small changes to the material, e.g. extension of existing or addition of a new learning unit
- 0 = patch version number
  - Technical changes, e.g. typos, references, formatting improvements



# Grab a Coffee...



Image by [Alexa](#) from [Pixabay](#)

- The automated workflow steps will be executed in the background
- Progress can be monitored in the “**Actions**” tab
- Estimated time: 5-10 minutes, so grab a cup coffee...
- If an error occurs, the repository owner will receive an email message

# Verifying the Release (1)

- Navigate to the Git book homepage
  - Check the footer
    - Citing information
    - Latest version
    - DOI
  - New version in the version drop down menu at the top of the page
  - Check the syllabus for the new DOI
- Pull the latest changes locally using GitHub Desktop
- Open an arbitrary PowerPoint file and verify that the citing information has been updated



Image by [GraphiMama-team](#) from [Pixabay](#)

# Verifying the Release (2)

- Navigate to [zenodo.org](https://zenodo.org) and log in
- Click on the “**+**” button in the top right corner
- A pop-up window will appear with the following information:
  - Publishing on Zenodo is an irreversible action, so make sure to double check all of the information while the deposit is still a draft.
  - The data has been deposited under the following license, funding information
- Manually set the language of the materials
- Save changes using the “**Save**” button
- Publish the release using the “**Publish**” button



Image by [GraphiMama-team](https://www.graphimama.com/) from [Pixabay](https://www.pixabay.com/)

# Key Takeaways

- The same steps can be repeated for any future releases
- The Zenodo Personal Access Token doesn't need to be regenerated
- When a new version is published, the workflow will automatically link it to the existing Zenodo record

Versions	
Version 6.0.0 10.5281/zenodo.8221703	Aug 8, 2023
Version 5.0.0 10.5281/zenodo.7492646	Dec 30, 2022
Version 2.0 10.5281/zenodo.6638745	Jun 28, 2021
Version 2.0 10.5281/zenodo.4736827	May 4, 2021
Version 1.0 10.5281/zenodo.4439663	Jan 14, 2021
<a href="#">View all 7 versions</a>	
<b>Cite all versions?</b> You can cite all versions by using the DOI <a href="#">10.5281/zenodo.3980490</a> . This DOI represents all versions, and will always resolve to the latest one. <a href="#">Read more.</a>	

# Publishing in Practice

Using the forked  
templates repository,  
release the first version  
of your demo learning  
materials



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Supporting



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# Thank you! Any questions before we continue?

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Cite instructions on:

<https://doi.org/10.5281/zenodo.10014781>



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