TU Delft's JB Starterkit

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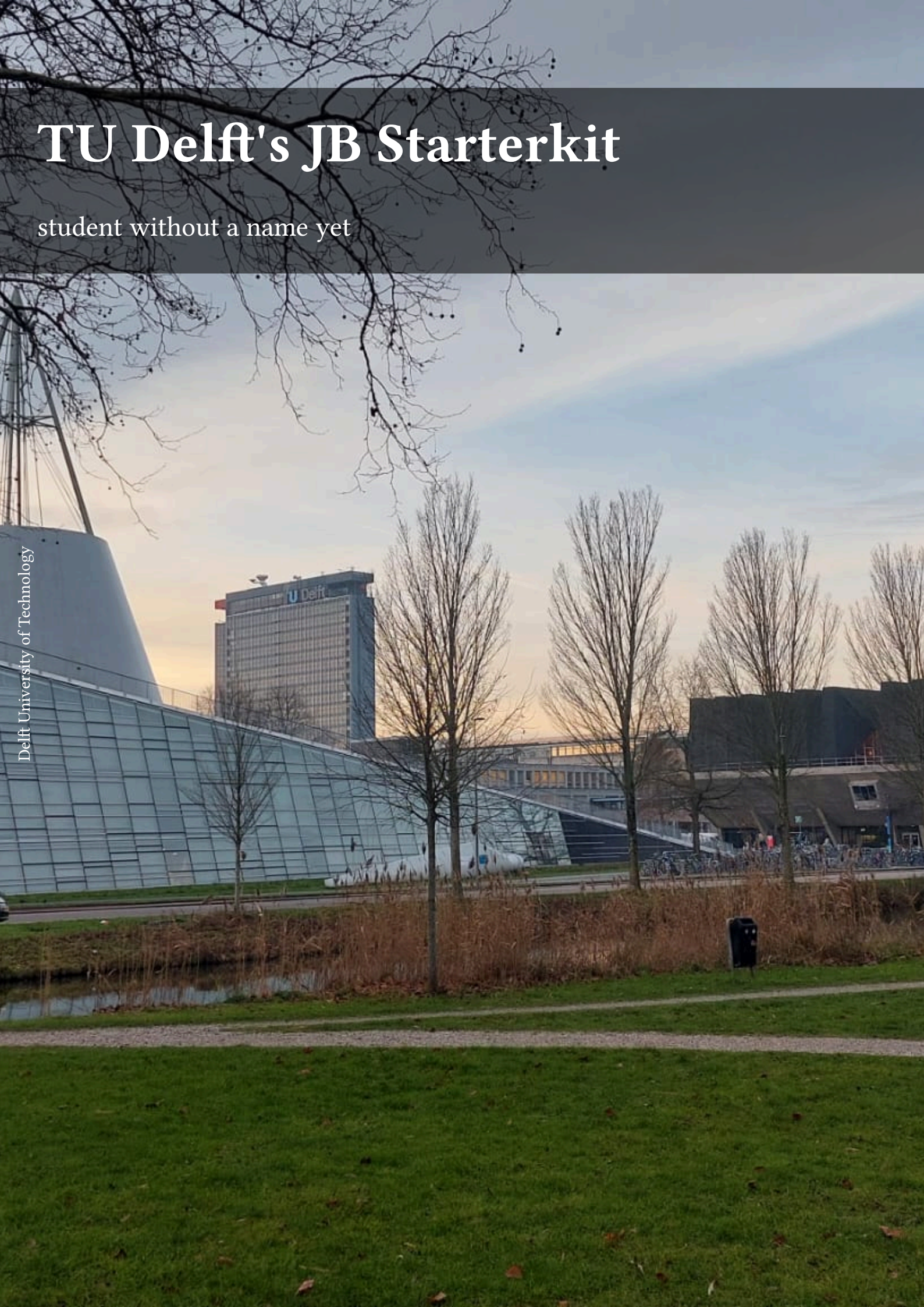

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Master Thesis

Master of Science
Applied Physics
Delft University of Technology
Faculty of Applied Sciences

Author	student without a name yet
Supervisor	prof. dr. John Doe *Delft University of Technology*
Committee Members	Prof. Dr. C. Examiner *Delft University of Technology* Dr. D. Examiner *Delft University of Technology*
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Abstract

In this demo, we demonstrate how Jupyter Book can be used to create and publish a content rich paper that includes interactive elements such as code cells, visualizations, and multimedia. We will walk through the process of setting up a Jupyter Book, adding content, and deploying the final product online.

Keywords

Jupyter Book, Open Science, TU Delft, Starterkit

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Use the starterkit

The instructions on this page guide you through the process of making your own book by creating a (new) GitHub repository from the starterkit template repository.
More information on the working with Jupyter Book can be found in The TUD guide to open publishing with JupyterBook or the official Jupyter Book documentation.

Create a repository

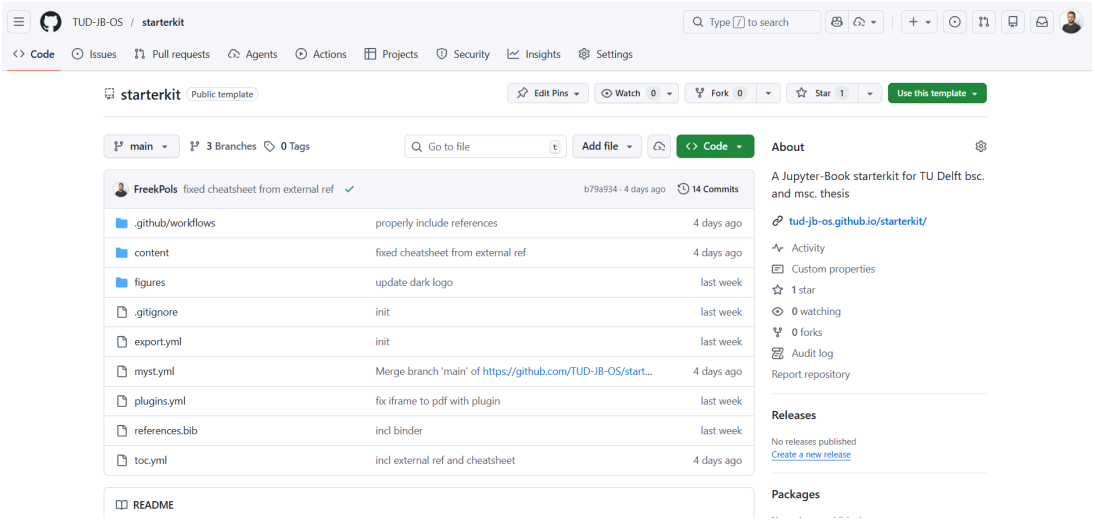
Follow these instruction to use the GitHub template repository to create your own thesis repository.:

1. Go to the starterkit repository
2. Click the green button `use this template` and click `create a new repository`.
3. Choose a proper name of your repository (this will be also part of your URL!) and choose the option `public`.
4. In your repository, click on `settings` and in the left menu on `Pages` and choose `Github Actions`
5. Click on `code` and click on ⚙️ (the `gear-icon` near **About**) at the right site of the page.
6. Check the box **Use your GitHub Pages website**.
7. Go to `Actions` in the top menu, click on the (red) `initial commit` and click `re-run all jobs`

The book will now be deployed again - where now it can actually load GitHub pages.

View your thesis online

The previous steps set up your repository with GitHub Pages using a GitHub Actions workflow. That action automatically builds your book (a website) and deploys it online. The URL of your book is based on your GitHub username:
`https://USERNAME.github.io/<reponame>`
You can also find the link easily from you GitHub repository home page under the “About” section on the right-hand side (illustrated in Figure 3).
You also have automatically two pdf’s based on a LaTeX thesis and Typst thesis template. Two buttons can be found at the top right corner to inspect these pdf’s.



Introductie op de site voor de Scheikunde Segbroek leerlingen

Jupyter Book has been rebuild from ground up using the MyST engine [1]. This allows to export content in multiple output formats including HTML, PDF and docx. In this paper we present an overview of the possibilities and demonstrate its working.

Background

Some background information about Jupyter Book and its features, like exporting to multiple formats as indicated in Figure 1.

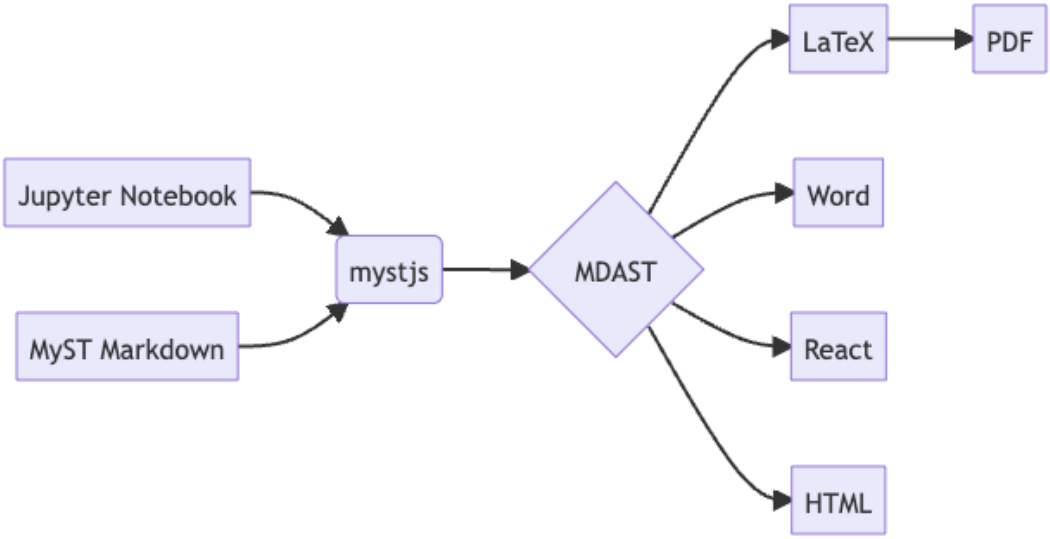


Figure 2: Some figure

Mol rekenen

Hallo
ik ben Jorn
$CH_4 + H_2O \rightarrow ...$

Results

Figure 1 shows the results of fitting our linear model to the data. Parameter a is optimal when the chi-squared curve is at its minimum, which corresponds to the smallest residuals and the best match between model and data.

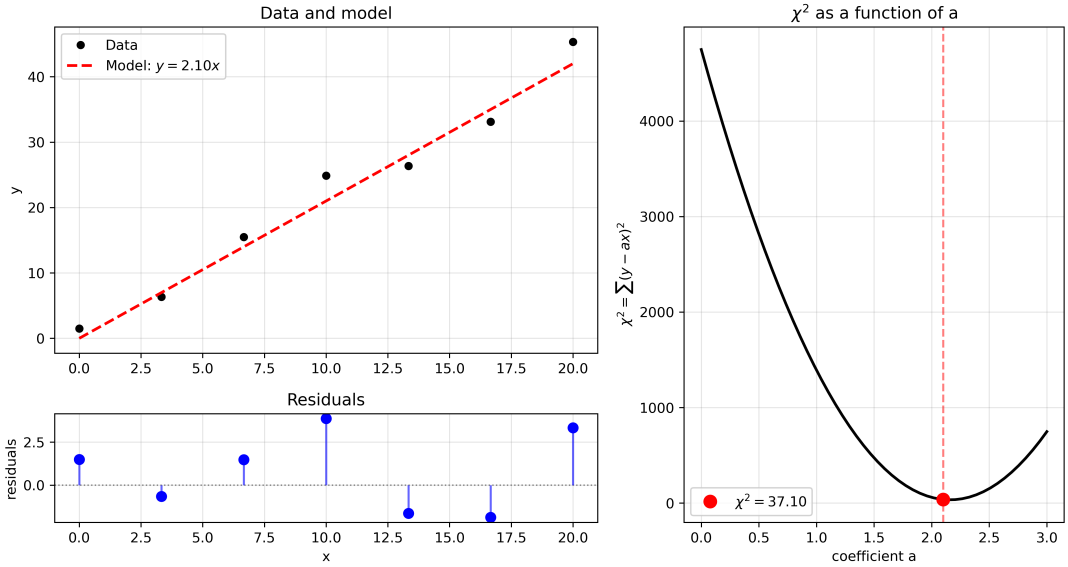


Figure 3: Fitting our data to a linear model with a single parameter a. The optimal value of a is found when the chi-squared curve (bottom) is at its minimum. The residuals (top right) are smallest at this point, and the model (top left) best matches the data.

Conclusion

Appendix

Cheatsheet

References

[1] P. Jupyter *et al.*, "Jupyter Book 2 and the MyST Document Stack: A modular, extensible, web-native stack for authoring and publishing computational narratives," in *Proceedings of the 24th Python in Science Conference*, in SciPy. 2025, pp. 173–193. doi: 10.25080/hwcj9957.