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aio-studi-and-thesis v0.1.3

English Manual

<https://github.com/fuchs-fabian/typst-template-aio-studi-and-thesis>

A template for students to create documentation and theses

Translated with: <https://www.deepl.com>

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Abstract

This template can be used for extensive documentation as well as for final theses such as bachelor theses.

However, it should always be clarified in advance whether the template is accepted for the planned use.

The template is suitable for both German-language and English-language theses.

It is characterised by the fact that it is highly customisable despite the predefined design.

Initially, all template parameters are optional by default. It is then suitable for documentation. To make it suitable for theses, only one parameter needs to be changed.

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1. Use of the template

After importing the template, a number of options are available. As it may be hard to tell, this template is highly customisable. But don't worry, all parameters are optional. However, it is recommended to specify at least one author under authors with name and assign a title.

It is important to know that external packages are available to the template user by default.

These are:

- `codly` (Full functional scope)
- `glossarium` (`gls`, `glspl`)

1.1. Minimal use

The import of at least `project` is required.

```
1 #show: project.with(Typst
2   // lang: "de",
3   authors: (
4     (name: "Your name"),
5   ),
6   title: "Title of the document"
7 )
```

If the template is to be used in English, `lang` must be changed to "en".

The translation was made with DeepL, so that no guarantee can be given for the correctness and completeness of the translation.

1.2. Maximum configuration options

If certain directories are to be hidden, only the parameters that have `show` in their name must be set to `false`.

If `custom-cover-sheet` is not `none`, the cover sheet is overwritten and `cover-sheet` no longer has any influence. The same applies to `custom-declaration`. If it is not `none`, then `declaration-on-the-final-thesis` is overwritten.

`declaration-on-the-final-thesis` only works if `thesis-compliant` is set to `true`.

If certain dictionaries are used, care must be taken to ensure that parameters with a required comment are also contained in the dictionary.

```
1 #show: project.with(Typst
2   lang: "de",
3   authors: (
4     (
5       name: "Unknown author", // required
```

```
6     id: "",  
7     email: ""  
8   ),  
9   ),  
10    title: "Unknown title",  
11    subtitle: none,  
12    date: none,  
13    version: none,  
14    thesis-compliant: false,  
15  
16    // Format  
17    side-margins: (  
18      left: 3.5cm, // required  
19      right: 3.5cm, // required  
20      top: 3.5cm, // required  
21      bottom: 3.5cm // required  
22    ),  
23    h1-spacing: 0.5em,  
24    line-spacing: 0.65em,  
25    font: default-font,  
26    font-size: 11pt,  
27    hyphenate: false,  
28  
29    // Color settings  
30    primary-color: dark-blue,  
31    secondary-color: blue,  
32    text-color: dark-grey,  
33    background-color: light-blue,  
34  
35    // Cover sheet  
36    custom-cover-sheet: none,  
37    cover-sheet: ( // none  
38      university: ( // none  
39        name: none, // required  
40        street: none, // required  
41        city: none, // required  
42        logo: none  
43      ),  
44      employer: ( // none  
45        name: none, // required  
46        street: none, // required  
47        city: none, // required
```

```
48     logo: none
49   ),
50   cover-image: none,
51   description: none,
52   faculty: none,
53   programme: none,
54   semester: none,
55   course: none,
56   examiner: none,
57   submission-date: none
58   ),
59
60 // Declaration
61 custom-declaration: none,
62 declaration-on-the-final-thesis: (           // none
63   legal-reference: none,                    // required
64   thesis-name: none,                      // required
65   consent-to-publication-in-the-library: none, // required | true,
66   false
67   genitive-of-university: none            // required
68   ),
69 // Abstract
70 abstract: none,
71
72 // Outlines
73 outlines-indent: 1em,
74 depth-toc: 4,    // none to disable
75 show-list-of-figures: false,
76 show-list-of-abbreviations: true,
77 list-of-abbreviations: (
78   (
79     key: "",    // required
80     short: "", // required
81     plural: "",
82     long: "",
83     longplural: "",
84     description: none,
85     group: "",
86   ),
87   ),
88 show-list-of-formulas: false,
```

```
89     custom-outlines: ( // none
90     (
91         title: none,    // required
92         custom: none // required
93     ),
94     ),
95     show-list-of-tables: false,
96     show-list-of-todos: false,
97     literature-and-bibliography: none,
98     list-of-attachements: ( // none
99         (a: none),           // required
100    )
101 )
```

2. Use of your own ‘Utils’

As there are some functions in Typst that are not available in other programming languages, for example, we have implemented them ourselves. These are also available to the user of the template.

2.1. Colors used

```
1 blue      // rgb("#009fe3")
2 dark-blue // rgb("#152f4e")
3 light-blue // rgb("#e8eff7")
4 dark-grey // rgb("#4a4a49")
5 green     // rgb("#26a269")
6 purple    // rgb("#613583")
```

Typst

2.2. Own logic functions

This facilitated the implementation of certain logics for the template.

2.2.1. Validation of whether something is `none` or an empty string ("").

```
1 #is-not-none-or-empty(content)
```

Typst

2.2.2. Validation of whether a dictionary contains a specific key.

```
1 #dict-contains-key(dict: (), key)
```

Typst

2.2.3. Conversion of content to a string

```
1 #to-string(content)
```

Typst

2.3. Prefabricated contents

2.3.1. Simple outline (`simple-outline`)

These are listed in the table of contents.

```
1 #simple-outline(
2   title: none,
3   target: none,
4   indent: 1em,
5   depth: none
6 )
```

Typst

2.3.2. Content for signing (`signing`)

```
1 #signing(text: none)
```

Typst

Location, Date

Author's Signature

2.3.3. Uniform highlighting of keywords (`emphasised`)

```
1 #emphasized(fill: dark-blue, it)
```

Typst

Example:

```
1 #show "My keyword" : it => emphasised(fill: purple, it)
```

Typst

My keyword

2.3.4. TODO Handling

To obtain the TODO string, simply call up the following:

```
1 #txt-todo
```

Typst

TODO

To have a TODO that can also be listed in a table of contents with TODOs and highlighted in the text, the following function can be used:

```
1 #todo(it)
```

Typst

Example:

```
1 #todo("Still to be completed")
```

Typst

```
2 // or
```

```
3 #todo[This must also be filled in]
```

TODO: Still to be completed

TODO: This must also be filled in

To generate a table of contents for these TODOs, the parameter `show-list-of-todos` in project must be set to true:

```
1 show-list-of-todos: true,
```

Typst

3. Use of the ‘general assets’

3.1. Card (card)

```
1 #card(Typst  
2   primary-color: dark-blue,  
3   background-color: light-blue,  
4   title: none,  
5   img: none,  
6   body  
7 )
```

3.1.1. Example of the simplest use

```
1 #card[My text in a card]Typst
```

My text in a card

3.1.2. Example with title

```
1 #card(title: "My Card") [Content]Typst
```

My Card

Content

3.1.3. Example with image

```
1 #card(img: image("certificate.png")) [Content]Typst
```

Content



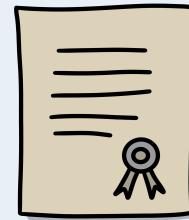
3.1.4. Example with title and image

```
1 #card(  
2   title: "Card with title and image",  
3   img: image("certificate.png")  
4 ) [Content]
```

Typst

Card with title and image

Content



3.2. Author(s) box (author-box)

```
1 #author-box(  
2   background-color: light-blue,  
3   plural: false,  
4   body  
5 )
```

Typst

3.2.1. Example with one author

```
1 #author-box[firstname lastname]
```

Typst

Author: **firstname lastname**

3.2.2. Example with several authors

```
1 #author-box(  
2   plural: true  
3 ) [firstname1 lastname1, firstname2 lastname2]
```

Typst

Authors: **firstname1 lastname1, firstname2 lastname2**

3.3. Button (`button`)

The fill color (fill), the border (stroke) and the text color (text-color) can be set here.

```
1 #button(Typst
2   url: "",
3   fill: none,
4   stroke: none,
5   text-color: none,
6   body
7 )
```

3.3.1. Example of the simplest use

```
1 #button[My Button]Typst
```

My button

3.3.2. Example with a link

```
1 #button(url: "https://github.com/fuchs-fabian")[My link]Typst
```

My link ↗

4. Use of the ‘Assets for project management’

These assets are suitable for documentation. Please note that their use for a thesis must be agreed with the supervisor in advance.

4.1. Persona (persona)

```
1 #persona(Typst
2   primary-color: dark-blue,
3   text-color: dark-grey,
4   background-color: light-blue,
5   title: txt-todo,
6   img: image("images/persona.png", width: 6.5em),
7   name: txt-todo,
8   age: txt-todo,
9   family: txt-todo,
10  job: txt-todo,
11  do-and-say: txt-todo,
12  wishes: txt-todo,
13  see-and-hear: txt-todo,
14  challenges: txt-todo,
15  typical-day: txt-todo,
16  goals: txt-todo
17 )
```

Example:

```
1 #persona(                                         Typst
2   title: [Student],
3   //img: none,
4   name: [Max Mustermann],
5   age: [26],
6   family: [single],
7   job: [working student],
8   do-and-say: [
9     I have no idea how to write documentation or a thesis using LaTex
10    or Word. It's too much work for me to have to adapt everything by
11      hand.
12    ],
13    wishes: [
14      A template that I can use for both documentation and theses.
15    ],
16    see-and-hear: [
17      - Word is not particularly user-friendly when it comes to
18        creating a professional document.
19      - LaTex is too powerful to understand well.
20    ],
21    challenges: [
22      - To convince professors that there are new and more beautiful
23        ways to create documents
24      - That this template may be used.
25    ],
26    typical-day: [
27      Writing project work and documentation.
28    ],
29    goals: [
30      An easier way to create documentation and theses without having
31      to use Word or LaTex.
32    ]
33  )
```

Persona: Student

Name	Max Mustermann
Age	26
Family	single
Job	working student



What I do and say	I have no idea how to write documentation or a thesis using LaTex or Word. It's too much work for me to have to adapt everything by hand.
These are my wishes	A template that I can use for both documentation and theses.
What I see and hear	<ul style="list-style-type: none">Word is not particularly user-friendly when it comes to creating a professional document.LaTex is too powerful to understand well.
These are my challenges	<ul style="list-style-type: none">To convince professors that there are new and more beautiful ways to create documentsThat this template may be used.
A typical day	Writing project work and documentation.
My goals	An easier way to create documentation and theses without having to use Word or LaTex.

4.2. Retrospective (retro)

```
1 #retro(Typst
2   primary-color: dark-blue,
3   secondary-color: blue,
4   text-color: dark-grey,
5   background-color: light-blue,
6   heading-starts-with: 2,
7   day: txt-todo,
8   sprint: none,
9   info: none,
10  img: image("images/starfish.png", height: 100pt),
11  more: none,
12  keep: none,
13  start: none,
14  stop: none,
15  less: none,
16  improvements: none,
17  impediments: none,
18  measures: none
19 )
```

Example:

```
1 #retro(                                         Typst
2   heading-starts-with: 3,
3   day: [29/07/2024],
4   sprint: [1],
5   info: [
6     This is my description of the retrospective.
7   ],
8   //img: none,
9   more: [
10    Understanding new technologies and programming languages
11  ],
12  keep: none,
13  start: [
14    Always create documentation and theses with Typst
15  ],
16  stop: none,
17  less: none,
18  improvements: [
19    - Easier writing of documentation and theses
20    - Standardised template for all documentation at the university
21  ],
22  impediments: [
23    - Formalities and design guidelines
24  ],
25  measures: [
26    - Talking to professors
27  ],
28 )
```

4.2.1. Retrospective Sprint 1 (29/07/2024)

This is my description of the retrospective.



more of	Understanding new technologies and programming languages
keep doing	NA
start doing	Always create documentation and theses with Typst
stop doing	NA
less of	NA

4.2.1.1. Improvements

- Easier writing of documentation and theses
- Standardised template for all documentation at the university

4.2.1.2. Impediments

- Formalities and design guidelines

4.2.1.3. Measures

- Talking to professors

4.3. SMART-Table (`smart`)

```
1 #smart(Typst
2   primary-color: dark-blue,
3   text-color: dark-grey,
4   background-color: light-blue,
5   justify: false,
6   s: txt-todo,
7   m: txt-todo,
8   a: txt-todo,
9   r: txt-todo,
10  t: txt-todo
11 )
```

Example:

```
1 #smart(Typst
2   justify: false,
3   s: [
4     #lorem(10)
5   ],
6   m: [
7     #lorem(10)
8   ],
9   a: [
10    #lorem(10)
11  ],
12   r: [
13    #lorem(10)
14  ],
15   t: [
16    #lorem(10)
17  ]
18 )
```

S	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
M	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
A	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
R	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
T	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

4.4. User Story

```
1 #user-story(Typst
2   primary-color: dark-blue,
3   text-color: dark-grey,
4   background-color: light-blue,
5   id: txt-todo,
6   title: txt-todo,
7   sprint: txt-todo,
8   status: txt-todo,
9   description: txt-todo,
10  url: "",
11  url-without-id: "",
12  acceptance-criteria: none,
13  s: none,
14  m: none,
15  a: none,
16  r: none,
17  t: none,
18  body
19 )
```

Example:

```
1 #user-story( Typst
2   id: [1],
3   title: [The title of the user story],
4   sprint: [1],
5   status: [Accepted],
6   description: [
7     #lorem(10)
8   ],
9   s: [
10    #lorem(10)
11  ],
12  m: [
13    #lorem(10)
14  ],
15  a: [
16    #lorem(10)
17  ],
18  r: [
19    #lorem(10)
20  ],
21  t: [
22    #lorem(10)
23  ],
24  none
25 )
```

ID	Title	Sprint	Status
1	The title of the user story	1	Accepted

User Story:

Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Acceptance Criteria:

S	Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.
M	Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.
A	Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.
R	Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.
T	Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Special thanks and recommendation

In creating and publishing this template, the support of one person and their template was invaluable. Thanks to their help, I was able to make this template available to everyone:

Clemens Koza (SillyFreak)

I recommend taking a look at his templates as well:

- <https://github.com/TGM-HIT/typst-diploma-thesis>
 - <https://github.com/SillyFreak/typst-package-template>
- Fork of: <https://github.com/typst-community/typst-package-template>