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## Public functions

### Clean DHWB

- `clean-dhbw()`

#### `clean-dhbw`

This function does provide a template in (unofficial) accordance to the DHBW Stuttgart guideline for a Thesis.

#### Parameters

```
clean-dhbw(  
    title: str,  
    authors: dictionary,  
    language: str,  
    at-university: bool,  
    confidentiality-marker: dictionary,  
    type-of-thesis: str,  
    show-confidentiality-statement: bool,  
    show-declaration-of-authorship: bool,  
    show-table-of-contents: bool,  
    show-table-of-images: bool,  
    show-table-of-tables: bool,  
    show-table-of-code: bool,  
    show-table-of-equations: bool,  
    show-acronyms: bool,  
    show-abstract: bool,  
    glossary-spacing: length,  
    outline-number-title-spacing: length,  
    outline-entry-height: length,  
    outline-new-chapter-spacing: length,  
    abstract: content,  
    abstract-second-language: content,  
    second-language-for-abstract: str,  
    appendix: content,  
    acronyms: dictionary,  
    glossary,  
    confidentiality-statement-content: content,  
    declaration-of-authorship-content: content,  
    titlepage-content: content,  
    university: str,  
    university-location: str,  
    university-short: str,  
    city: str,  
    supervisor: str,  
    date: datetime,  
    date-format: str,  
    bibliography,  
    bib-style: str,  
    logo-left: content,  
    logo-right: content,  
    body: content  
)
```

**title**    `str`

The title of your document.

Default: `str`

**authors**    `dictionary`

A list of dictionaries with the authors. Each Author should have following elements:

- `name`: Name of the author -> `str`
- `student-id`: Student-ID of the author -> `str`
- `course`: Course of the author -> `str`
- `course-of-studies`: Course of studies of the author -> `str`
- `company`: dictionary containing:
  - `name` -> `str`
  - `post-code` -> `str`
  - `city` -> `str`
  - `country` -> `str`

Default: `( : )`

**language**    `str`

The language in which this document is written. Currently supported are “de” and “en”.

Default: `"en"`

**at-university**    `bool`

Define if the document is written for the university. Setting this true will hide the company and confidentiality statement.

Default: `true`

**confidentiality-marker**    `dictionary`

Show a red dot on the upper right corner of the title page.

Default: `(display: false)`

**type-of-thesis**    `str`

The type of the thesis, e.g. Bachelor Thesis or Paper.

Default: `none`

**show-confidentiality-statement**    `bool`

Display the confidentiality statement. This will be ignored if `at-university` is set to true.

Default: `true`

**show-declaration-of-authorship** `bool`

Display declaration-of-authorship.

Default: `true`

**show-table-of-contents** `bool`

Display table of contents.

Default: `true`

**show-table-of-images** `bool`

Display table of figures (images).

Default: `true`

**show-table-of-tables** `bool`

Display table of tables.

Default: `true`

**show-table-of-code** `bool`

Display table of code.

Default: `true`

**show-table-of-equations** `bool`

Display table of equations.

Default: `true`

**show-acronyms** `bool`

Display all used acronyms.

Default: `true`

**show-abstract** `bool`

Display the abstract.

Default: `true`

**glossary-spacing** length

Spacing between the glossary term and its definition.

Default: **1.5em**

**outline-number-title-spacing** length

The spacing between the chapter number the the heading in an outline entry.

Default: **1em**

**outline-entry-height** length

The height of a outline entry (on single line).

Default: **1.1em**

**outline-new-chapter-spacing** length

The space above a new level 1 chapter in outlines, should be equa to page-grid.

Default: **16pt**

**abstract** content

The abstract in the main language.

Default: **none**

**abstract-second-language** content

The abstarct in the second language, second-language-for-abstract must be set.

Default: **none**

**second-language-for-abstract** str

The language for a second abstarct. See language for options.

Default: **none**

**appendix** content

The appendix.

Default: **none**

**acronyms**    dictionary

Dictionary containing all acronyms.

Default: **none**

**glossary**

The glossary dictionary, containing words and their description.

Default: **none**

**confidentiality-statement-content**    content

Overwrite the default content of the confidentiality statement.

Default: **none**

**declaration-of-authorship-content**    content

Overwrite the default content of the declaration of authorship.

Default: **none**

**titlepage-content**    content

Overwrite the default content of the titlepage.

Default: **none**

**university**    str

Name the of the university.

Default: **none**

**university-location**    str

Location of the university.

Default: **none**

**university-short**    str

Shorthand for the university (eg. KIT), displayed for the university supervisor.

Default: **none**

**city** `str`

City of the author (only needed when at-university is true).

Default: `none`

**supervisor** `str`

Dictionary containing the name of the supervisor with the “university” or “company”. One of the two should be provided.

Default: `( : )`

**date** `datetime`

Datetime object to be displayed in the document.

Default: `datetime.today()`

**date-format** `str`

Date format to be displayed. See Typst docs for more information.

Default: `"[day].[month].[year]"`

**bibliography**

Bibliography object to be displayed.

Default: `none`

**bib-style** `str`

Display Style of the bibliography, see Typst docs for more information.

Default: `"ieee"`

**logo-left** `content`

Logo on the right side in the header. Should be the company logo. If only one logo is specified it will be centered on the titlepage.

Default: `image("img/general/firmenlogo.png")`

**logo-right** `content`

Logo on the left side in the header. Should be the University logo. If only one logo is specified it will be centered on the titlepage.

Default: `image("img/general/dhbw.svg")`

**body** `content`

The main Body, the actually written document.

## Custom equations

- `equation()`

### Variables:

- `outlined-equations`

### `equation`

Custom wrapper for equations to store them in `outlined-equations` and display them in an custom outline.

```
#equation(  
    caption: "Quadratic formula",  
    label: <eq:QuadraticFormula>,  
    $ (-b plus.minus sqrt(b^2 - 4 dot a dot  
c)) / (2 dot a) $,  
)
```

$$\frac{-b \pm \sqrt{b^2 - 4 \cdot a \cdot c}}{2 \cdot a} \quad (2.1)$$

### Parameters

```
equation(  
    body,  
    caption: str content,  
    label: dictionary label location ref-label str  
) -> content
```

**caption** `str` or `content`

Caption of the equation. Providing a caption will display the equation in the outline with it's caption. The Caption is not shown below the equation.

Default: `none`

**label** dictionary or label or location or ref-label or `str`

Label of the equation. Must be provided.

Default: `none`

**outlined-equations** dictionary

Dictionary to store a equations label and caption in order to display them in a custom outline.



## ToDo

- todo()

### todo

Small function to mark text italic red and add the prefix “ToDo: “.

```
#todo("Add a pagebreak")
```

*ToDo: Add a pagebreak*

### Parameters

```
todo(task: str content) -> content
```

**task**    **str** or **content**

Content of the task.

## Internal functions

### Custom outline Entry

- custom-outline-entry-formatting()

#### custom-outline-entry-formatting

This function create one line seperated into front, mid, and back. It is intended to be used as a custom outline entry.

#### Parameters

```
custom-outline-entry-formatting(  
    location: dictionary label location ref-label str ,  
    front: content ,  
    mid: content ,  
    back: content ,  
    front-max-width: length fraction ,  
    spacing-after-front: length ,  
    entry-height: length  
)
```

**location** dictionary or label or location or ref-label or str

The location of the content, none will create no link.

Default: none

**front** content

Content of the front part, eg. "Figure 2.4".

Default: none

**mid** content

Content of the middle part eg. "This image shows a Cat".

Default: none

**back** content

Content of the end, will be most to the right. Eg. the page number "4".

Default: none

**front-max-width** length or fraction

Maximum width of all front entries, this is used so all front parts have the same width and the mid parts are aligned.

Default: 1fr

**spacing-after-front** length

The space inserted after front-max-width. If front-max-width is a fraction, this has no effect.

Default: **3em**

**entry-height** length

The height of a single line (entry).

Default: **1em**