

The fhjcommon package*

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Abstract

Collection of common macros for the FHJ bundle independent of a chosen document class.

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1 Configuration

1.1 Used Packages

- 1 `\package`
- 2 `\RequirePackage{xstring}`
- 3 `\RequirePackage{ifthen}`
- 4 `\RequirePackage{calc}`

2 Naming definitions

`\FHJ` One goal of this package is to provide common naming definitions which can and should be used in all documents which are created in the context of *FH JOANNEUM*. This includes the naming of the university (`\FHJ`), the study programs and their long and short names.

2.1 Study program specifics

`\FHJProgram` It is assumed that the documents which are generated are created in the context of a given study program *Data Science and Artificial Intelligence* or *IT and Mobile Security*. To set the study program for the given document use the macro as following:

```
\FHJProgram{<program-stem>}
```

`\FHJProgramLong` We currently support DAT and IMS for `{<program-stem>}`. and After setting
`\FHJProgramShort` the study program you can use macros which refer to `\FHJProgramLong` and
`\FHJProgramShort` to get the long and short name of the study program.

`\FHJDATLong` For convenience, the macros `\FHJDATLong`, `\FHJDATShort`, `\FHJIMSLong` and
`\FHJDATShort` `\FHJIMSShort` are provided as direct shortcuts if you ever need to name a study
`\FHJIMSLong` program or its abbreviation which does not belong to the current document.
`\FHJIMSShort`

3 Legal declarations

Further important macros are the legal declarations which are required to be included in the master thesis. These declarations ensure compliance with the legal requirements of FH JOANNEUM.

`\FHJMakeDeclaration` Normally these declarations should be placed on a single page – therefore we run a `\cleardoublepage` before and after the declaration. The macro `\FHJDeclaration` is also taking care of the language and will automatically switch to the appropriate language based on the current language setting of the document. We currently support *ngerman* and *english* as languages. The declaration text itself is defined in both German and English and could be typeset with `\FHJDeclarationDE` or `\FHJDeclarationEN` respectively without any page clearing.

4 Exercises

The class provides a set of macros to define exercises and examples for lectures. To be able to create the header you will need to redefine the following macros.

`\FHJClassAbbr` To simplify the generation of the header for exercises we provide a set of macros
`\FHJClassTerm` which can be redefined to customize the appearance of the header.

```
\FHJLecturer 5 \newcommand{\FHJClassAbbr}{RUL}
               6 \newcommand{\FHJClassTerm}{WS 2025-26}
               7 \newcommand{\FHJLecturer}{Lisa Musterfrau}
```

`\FHJExHeader` The header is actually generated with the macro `\FHJExHeader{<type>}{<number>}{<topic>}` which takes two arguments: the type of the exercise (like “Exam”, “Exercise” or similar), exercise number and the topic and my look like this using the macro with `\FHJExHeader{Exercise}{1}{\LaTeX}` with above default definitions:

*This document corresponds to fhjcommon v4.2c, dated 2026-02-25.

RUL (Data Science and Artificial Intelligence)
FH JOANNEUM
Lisa Musterfrau

Exercise 1: L^AT_EX

WS 2025-26

`\FHJExHeaderScheduled` Additionally we defined the macro `\FHJExHeaderScheduled{<exercise number>}{<topic>}{<date>}` which takes an additional argument for the date which would produce the following example:

RUL (Data Science and Artificial Intelligence)
FH JOANNEUM
Lisa Musterfrau

Exercise 1: L^AT_EX

WS 2025-26

Exercise 1 (L^AT_EX) to be solved till 2025-08-13

Remark: The Exercises have to be handed in on Moodle on the target day until 23:59.

`\FHJExExample` To generate the examples themselves you may want to use the macro `\FHJExExample[<points>]{<title>}` which will generate the following section:

Example 1.1: An amazing challenge! (99 Points)

The section counter will be incremented automatically and the major number is always equal to the exercise number.

`\FHJExLLM` We have formulated a default statement for exercises on how to treat LLMs (Large Language Models) in the context of the FHJ. This is not an "official" statement from FHJ - it is more a guideline for students and lecturers on how to approach the topic.

Usage of LLMs: You are permitted to use LLMs (e.g., CoPilot, ChatGPT, aso.) to support your work on the exercises. Please note, however, that the use of LLMs is not allowed during assessments. Ensure that you thoroughly understand your solutions and can reproduce them independently without assistance from LLMs.

Change History

v4.0

General: Initial package version . . . **1**