

The istaustriathesis class*

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Abstract

This class provides a \LaTeX 2 ε template for Master's and PhD theses at ISTA.

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1 Introduction

This class provides a L^AT_EX 2_ε template for theses at ISTA. Further information on the document class and accompanying support can be found at <https://gitlab.com/ThomasAUZINGER/istaustriathesis>. Further guidelines may apply to both the format and structure of certain theses. These can be found at <https://phd.pages.ist.ac.at/student-resources/>. Thesis authors are advised to consult Section 4 for a documentation of all relevant commands. Information for class developers is provided in Section 5.

2 Known Issues

This class is incompatible with the `minitoc` package as of version 60, due to the incompatibility of the underlying `memoir` class. Use the `titletoc` package as a replacement.

3 Related Work

This document class was developed on the basis of the `vutinfth` document class for all theses at the Faculty of Informations at the TU Wien. See <https://gitlab.com/ThomasAUZINGER/vutinfth> for details.

4 Usage for Document Authors

This section contains relevant information for authors of theses that are based on the `istaustriathesis` document class.

4.1 Data

To allow the generation of the title pages, signature fields, statements, etc., several pieces of information have to be set by the author using the commands in the subsequent sections. We discern several categories of data: *(i)* textual data, which is given by a simple text string, *(ii)* persons, which are defined by their names, optional titles, and their gender, as well as, *(iii)* dates and *(iv)* list data, which allow the selection of one argument from a list of permissible arguments.

4.1.1 Textual Data

<code>\settitle</code>	All commands in this section are called with one mandatory argument, e.g., as
<code>\setsubtitle</code>	<code>\command{⟨text⟩}</code> , where <code>⟨text⟩</code> defines the content of the commands.
<code>\setissn</code>	
<code>\setisbn</code>	

Command	Role	Optional
<code>\settitle</code>	Title of the thesis	No
<code>\setsubtitle</code>	Subtitle of the thesis	Yes
<code>\setissn</code>	ISSN of the theses at ISTA	No
<code>\setisbn</code>	ISBN of the thesis	Yes

4.1.2 Persons

`\setauthor` All commands in this section are called with four mandatory arguments, e.g., as
`\setsupervisor` `\command{⟨pretitle⟩}{⟨name⟩}{⟨posttitle⟩}{⟨affiliation⟩}`, where `⟨name⟩` defines
`\setcosupervisor` both the first name(s) and family name(s) of the person. A title that is placed
`\setcommitteememberI` before the name is assigned with `⟨pretitle⟩`, while a trailing title is given with
`\setcommitteememberII` `⟨posttitle⟩`. Both `⟨pretitle⟩` and `⟨posttitle⟩` can be left empty, to indicate an ab-
`\setcommitteememberIII` sence of such a title; the insertion of appropriate glue between titles and names is
`\setcommitteememberIIII` handled by the `istaustriathesis` class. The declaration of the person's affilia-
`\setdefensechair` tion via `⟨affiliation⟩` usually contains the institution, its city, and its country. The
following persons can be set:

Command	Role	master Optional	phd Optional
<code>\setauthor</code>	Author of the thesis	No	No
<code>\setsupervisor</code>	Main supervisor of the thesis	No	No
<code>\setcosupervisor</code>	Cosupervisor of the thesis	Yes	Yes
<code>\setcommitteememberI</code>	First committee member	No	No
<code>\setcommitteememberII</code>	Second committee member	Yes	No
<code>\setcommitteememberIII</code>	Third committee member	Yes	Yes
<code>\setcommitteememberIIII</code>	Fourth committee member	Yes	Yes
<code>\setdefensechair</code>	Chair of the committee	Yes	No

4.1.3 Dates

`\setdate` All commands in this section are called with three madatory arguments, e.g., as
`\command{⟨day⟩}{⟨month⟩}{⟨year⟩}`. The syntax is identical to the last three
arguments of the `\newdate` command of the `datetime` package, from which these
commands derive. The following dates can be set:

Command	Role	Optional
<code>\setdate</code>	Signing date	No

4.1.4 List Data

All commands in this section are called with at least one madatory argument called
`⟨list⟩`, e.g., as `\command...{⟨list⟩}...`, where `⟨list⟩` is given one element from a set
of possible arguments.

`\setthesis` The thesis type is selected from one of the supported types:

Command	Options	Description
<code>\setthesis{<list>}</code>	master	Specifies a master's thesis.
	phd	Specifies a dissertation.

`\setcopyright` The type of copyright license can be chosen as restrictive or as one of the Creative Commons (CC) licenses (see <https://creativecommons.org/choose/> for further information on possible choices).

Command	Options	Description
<code>\setlicense{<list>}</code>	restricted	Specifies that all rights are reserved.
	cc-by	Specifies the CC BY 4.0 License.
	cc-by-sa	Specifies the CC BY-SA 4.0 License.
	cc-by-nd	Specifies the CC BY-ND 4.0 License.
	cc-by-nc	Specifies the CC BY-NC 4.0 License.
	cc-by-nc-sa	Specifies the CC BY-NC-SA 4.0 License.
	cc-by-nc-nd	Specifies the CC BY-NC-ND 4.0 License.

4.2 Layout

Most of the data that is supplied with the commands of the previous sections is used to generate the front matter of the thesis. It consists of obligatory items such as the title page(s) and the statement of originality as well as optional items such as the acknowledgements or the abstract in different languages. In the remainder of this section, the available items of the front matter are given.

`\addtitlepage` Used as `\addtitlepage`, it generates the title page. The necessary pieces of information have to be set beforehand (as described in Section 4.1). This command is usually used directly after `\begin{document}\frontmatter`.

`\committeepage` Used as `\addstatementpage`, it generates the signature page of the committee. The necessary pieces of information have to be set beforehand (as described in Section 4.1). This command is usually used directly after `\addtitlepage`.

`\addstatementpage` Used as `\addstatementpage`, it generates a page with the statement of originality and the copyright notice as well as the signature field of the author. The necessary pieces of information have to be set beforehand (as described in Section 4.1). This command is usually used directly after `\addcommitteepage`.

abstract Used as `\begin{abstract}<text>\end{abstract}`, this environment generates a chapter with the abstract. Use the starred version, i.e., **abstract***, to remove the table of content entry of this environment.

acknowledgements Used as `\begin{acknowledgements}<text>\end{acknowledgements}`, this environment generates a chapter with the acknowledgements. Use the starred version, **acknowledgements***.

i.e., `acknowledgements*`, to remove the table of content entry of this environment.

`aboutauthor`
`aboutauthor*` Used as `\begin{aboutauthor}\langle text \rangle\end{aboutauthor}`, this environment generates a chapter with information about the author. Use the starred version, i.e., `aboutauthor*`, to remove the table of content entry of this environment.

`publicationlist`
`publicationlist*` Used as `\begin{publicationlist}\langle text \rangle\end{publicationlist}`, this environment generates a chapter with the publication list used in the thesis as well as a description of the author's contributions to them. Use the starred version, i.e., `publicationlist*`, to remove the table of content entry of this environment. Individual citations of the publications can be added using the `\bibentry{\langle bibid \rangle}` command.

5 Usage for Class Writers

To accomodate shifting requirements, the `istaustriathesis` class provides various convenience functions that allow the modification and extension of its functionality.

5.1 Data

To compose several parts of the thesis layout, input from the thesis author is required. For the `istaustriathesis` class, this is realized by the commands provided in Section 4.1. Additional data can be defined with the the commands in the remainder of this section.

`\CreateData` Used as `\CreateData{\langle name \rangle}`, it generates a command `\set{\langle name \rangle}`. Used as `\set{\langle name \rangle}{\langle string \rangle}`, the newly created command assigns the value `\langle string \rangle` to the internal variable `\istaustriathesis@data@{\langle name \rangle}`. The variable is initialized with an error value to alert the user of the fact that `\langle string \rangle` was not supplied via the `\set{\langle name \rangle}` command. Furthermore, a command `\istaustriathesis@data@{\langle name \rangle}@def` is created, to increase source code readability when verifying the existence of a specific data item. See Section 6.2.5 for examples.

`\CreatePerson` Used as `\CreatePerson{\langle name \rangle}`, it generates a command `\set{\langle name \rangle}`. Used as `\set{\langle name \rangle}{\langle pretitle \rangle}{\langle personname \rangle}{\langle posttitle \rangle}{\langle affiliation \rangle}`, the newly created command assigns the supplied values to the corresponding internal variables `\istaustriathesis@person@{\langle name \rangle}@...` as given in the table below.

Argument	Internal Variable
	<code>\istaustriathesis@person@{\langle name \rangle}@def</code>
<code>\langle pretitle \rangle</code>	<code>\istaustriathesis@person@{\langle name \rangle}@pretitle</code>
<code>\langle personname \rangle</code>	<code>\istaustriathesis@person@{\langle name \rangle}@name</code>
<code>\langle posttitle \rangle</code>	<code>\istaustriathesis@person@{\langle name \rangle}@posttitle</code>
<code>\langle affiliation \rangle</code>	<code>\istaustriathesis@person@{\langle name \rangle}@affiliation</code>

The command `\istaustriathesis@person@⟨name⟩@def` is created to increase source code readability when verifying the existence of a specific person. Furthermore, the command `\istaustriathesis@person@⟨name⟩@name` returns the person's name. The name can be extended by the person's titles using `\istaustriathesis@person@⟨name⟩@fullname` and – even further – with the person's affiliation using `\textellipsis⟨name⟩@fullnameaffiliation`. See Section 6.2.5 for examples.

5.2 Layout

Several key elements in the layout of the frontmatter are encapsulated to allow a convenient extension of this functionality.

<code>\CommitteeSummaryBlock</code>	Used as <code>\CommitteeSummaryBlock</code> , it generates a list of the names of all committee members.
<code>\ApprovalBlock</code>	Used as <code>\ApprovalBlock</code> , it generates a description of the thesis that is approved.
<code>\SignatureBlock</code>	Used as <code>\SignatureBlock{⟨role⟩}{⟨name⟩}</code> , it generates a signature field for the given person stating the person's role in the committee and the person's name.
<code>\CommitteeBlock</code>	Used as <code>\CommitteeBlock</code> , it generates a list of signature fields for all committee members.
<code>\CopyrightBlock</code>	Used as <code>\CopyrightBlock</code> , it generates the copyright statement.
<code>\ISSNBlock</code>	Used as <code>\ISSNBlock</code> , it generates the ISSN information.
<code>\ISBNBlock</code>	Used as <code>\ISBNBlock</code> , it generates the ISBN information.
<code>\StatementBlock</code>	Used as <code>\StatementBlock</code> , it generates the statement of originality.
<code>\AddTitlePage</code>	Used as <code>\AddTitlePage</code> , it generates the title page containing the appropriate blocks and the logo.
<code>\AddCommitteePage</code>	Used as <code>\AddCommitteePage</code> , it generates the approval and signing page containing the appropriate blocks.
<code>\AddStatementPage</code>	Used as <code>\AddStatementPage</code> , it generates the copyright and statement page containing the appropriate blocks.
<code>SFFont</code>	Alters the sans serif font inside the environment. Called with one mandatory argument as <code>\begin{SFFont}{⟨family⟩}</code> , which determines the sans serif font family that should be used, e.g., <code>phv</code> for Helvetica.

6 Implementation

6.1 Initialization

6.1.1 Class Options

Pass the options to the underlying memoir class.

```
1 \DeclareOption*{%
2   \PassOptionsToClass{\CurrentOption}{memoir}%
3 }%
4 \ProcessOptions\relax
```

6.1.2 Loaded Class and Packages

The istaustriathesis class is based on the memoir class.

```
5 \LoadClass[a4paper,12pt]{memoir}%
6 \chapterstyle{veelo}%
```

The following packages are required for the functionality and style of the document class.

```
7 \RequirePackage[scaled]{helvet}%
8 \RequirePackage{lmodern}%
9 \RequirePackage{courier}%
10 \RequirePackage{textcomp}%
11 \RequirePackage[T1]{fontenc}%
12 \RequirePackage[english]{babel}%
13 \RequirePackage{datetime2,datetime2-calc}%
14 \RequirePackage{calc}%
15 \RequirePackage{etoolbox}%
16 \RequirePackage{todonotes}%
17 \RequirePackage{graphicx}%
18 \graphicspath{{graphics/}}%
```

6.1.3 Low-Level Functionality

This section provides low-level functionality for macro definitions and macro expansions.

`\ifstrequal` A variant of `\ifstrequal` that fully expands the first two arguments.

```
19 \newcommand{\ifstrequal}[4]{%
20   \begingroup
21     \edef\vutinfth@tempa{{#1}}%
22     \edef\vutinfth@tempb{{#2}}%
23     \expandafter\expandafter\expandafter\ifstrequal
24       \expandafter\vutinfth@tempa\vutinfth@tempb{#3}{#4}%
25   \endgroup
26 }%
```


6.1.4 Page Layout

Set the margin to one inch on all sides.

```
27 \setlrmarginsandblock{1in}{1in}{*}%
28 \setulmarginsandblock{1in}{1in}{*}%
29 \checkandfixthelayout
```

6.1.5 Fonts

Initializes the font sizes.

```
\istaustriathesis@HUGE
\istaustriathesis@huge
\istaustriathesis@LARGE
\istaustriathesis@Large
\istaustriathesis@large
\istaustriathesis@normalsize
\istaustriathesis@small
\istaustriathesis@footnotesize
\istaustriathesis@scriptsize
\istaustriathesis@tiny

30 \newcommand{\istaustriathesis@Huge}{\Huge}%
31 \newcommand{\istaustriathesis@huge}{\huge}%
32 \newcommand{\istaustriathesis@LARGE}{\LARGE}%
33 \newcommand{\istaustriathesis@Large}{\Large}%
34 \newcommand{\istaustriathesis@large}{\large}%
35 \newcommand{\istaustriathesis@normalsize}{\normalsize}%
36 \newcommand{\istaustriathesis@small}{\small}%
37 \newcommand{\istaustriathesis@footnotesize}{\footnotesize}%
38 \newcommand{\istaustriathesis@scriptsize}{\scriptsize}%
39 \newcommand{\istaustriathesis@tiny}{\tiny}%

SFFont
```

Selects the given font family as sans serif font.

```
40 \newenvironment{SFFont}[1]{%
```

Stores the current sans serif font in `\istaustriathesis@f@family@tmp` and changes to the given sans serif font.

```
41 \begingroup
42 \sffamily
43 \global\let\istaustriathesis@f@family@tmp=\f@family
44 \endgroup
45 \renewcommand{\sfdefault}{#1}%
```

In case the outer scope is already sans serif, the new font has to be activated.

```
46 \ifdefstrequal{\f@family}{\istaustriathesis@f@family@tmp}{%
47 \sffamily}{}%
48 }{%
```

The scope of the font change is the environment itself. Thus, no cleanup code is required in case the outer scope was already sans serif.

```
49 \renewcommand{\sfdefault}{\istaustriathesis@f@family@tmp}%
50 }%
```

6.2 Data

6.2.1 Dates

`\setdate` Creates the internal storage for the signing date.

```
51 \newcommand{\setdate}[3]{%  
52   \DTMsavenoparsedate{istaustriathesis@date@signing}{#1}{#2}{#3}{-1}%  
53 }%
```

6.2.2 Textual Data

`\istaustriathesis@def@data` Creates the internal storage for simple data entries.

```
54 \newcommand{\istaustriathesis@def@data}[2]{%  
55   \@namedef{istaustriathesis@data@#1@def}{}%  
56   \@namedef{istaustriathesis@data@#1}{#2}%  
57 }%
```

`\istaustriathesis@def@data@invalid` Initializes the internal storage with error messages.

```
58 \newcommand{\istaustriathesis@def@data@invalid}[2]{%  
59   \@namedef{istaustriathesis@data@#1@error}{%  
60     \ClassError{istaustriathesis}{No #2 issued}{Set #1 with #2.}%  
61   }%  
62   \@namedef{istaustriathesis@data@#1}{%  
63     \@nameuse{istaustriathesis@data@#1@error}}%  
64 }%
```

`\CreateData` Issues the construction of a setter function for a data entry given by `\setdata`.

```
65 \newcommand{\CreateData}[1]{%  
66   \@namedef{set#1}##1{%  
67     \istaustriathesis@def@data{#1}{##1}%  
68   }%  
69   \istaustriathesis@def@data@invalid{#1}{\string\set#1}%  
70 }%
```

6.2.3 Persons

`\istaustriathesis@def@person` Creates the internal storage for a person's name, titles and affiliation.

```
71 \newcommand{\istaustriathesis@def@person}[5]{%  
72   \@namedef{istaustriathesis@person@#1@def}{}%  
73   \@namedef{istaustriathesis@person@#1@prettitle}{#2}%  
74   \@namedef{istaustriathesis@person@#1@name}{#3}%  
75   \@namedef{istaustriathesis@person@#1@posttitle}{#4}%  
76   \@namedef{istaustriathesis@person@#1@affiliation}{#5}%
```

For the full name, additional spaces have to be inserted depending on the presence of pre- or posttitles.

```

77 \ifstrempy{#3}{%
78 \ifstrempy{#2}{%
79 \namedef{istaustriathesis@person@#1@fullname}{#4}%
80 \namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
81 #4, #5}%
82 }{%
83 \ifstrempy{#4}{%
84 \namedef{istaustriathesis@person@#1@fullname}{#2}%
85 \namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
86 #2, #5}%
87 }{%
88 \namedef{istaustriathesis@person@#1@fullname}{#2 #4}%
89 \namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
90 #2 #4, #5}%
91 }%
92 }%
93 }{%
94 \ifstrempy{#2}{%
95 \ifstrempy{#4}{%
96 \namedef{istaustriathesis@person@#1@fullname}{#3}%
97 \namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
98 #3, #5}%
99 }{%
100 \namedef{istaustriathesis@person@#1@fullname}{#3, #4}%
101 \namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
102 #3, #4, #5}%
103 }%
104 }{%
105 \ifstrempy{#4}{%
106 \namedef{istaustriathesis@person@#1@fullname}{#2 #3}%
107 \namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
108 #2 #3, #5}%
109 }{%
110 \namedef{istaustriathesis@person@#1@fullname}{#2 #3, #4}%
111 \namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
112 #2 #3, #4, #5}%
113 }%
114 }%
115 }%
116 }%

```

istaustriathesis@def@person@invalid Initializes the internal storage with error messages.

```

117 \newcommand{\istaustriathesis@def@person@invalid}[2]{%
118 \namedef{istaustriathesis@person@#1@error}{%
119 \ClassError{istaustriathesis}{No #2 issued}{Set #1 with #2.}%
120 }%

```

```

121 \@namedef{istaustriathesis@person@#1@name}{%
122   \@nameuse{istaustriathesis@person@#1@error}}%
123 \@namedef{istaustriathesis@person@#1@pretitle}{%
124   \@nameuse{istaustriathesis@person@#1@error}}%
125 \@namedef{istaustriathesis@person@#1@posttitle}{%
126   \@nameuse{istaustriathesis@person@#1@error}}%
127 \@namedef{istaustriathesis@person@#1@affiliation}{%
128   \@nameuse{istaustriathesis@person@#1@error}}%
129 \@namedef{istaustriathesis@person@#1@fullname}{%
130   \@nameuse{istaustriathesis@person@#1@error}}%
131 \@namedef{istaustriathesis@person@#1@fullnameaffiliation}{%
132   \@nameuse{istaustriathesis@person@#1@error}}%
133 }%

```

`\CreatePerson` Issues the construction of a setter function for a person given by `\setperson`.

```

134 \newcommand{\CreatePerson}[1]{%
135   \@namedef{set#1}##1##2##3##4{%
136     \istaustriathesis@def@person{#1}{##1}{##2}{##3}{##4}%
137   }%
138   \istaustriathesis@def@person@invalid{#1}{\string\set#1}%
139 }%

```

6.2.4 Thesis Type

`\istaustriathesis@thesis@type` Initialize the thesis type and the degree with error messages.

```

\istaustriathesis@degreename
\istaustriathesis@thesisname
140 \newcommand{\istaustriathesis@thesis@type}{%
141   \ClassError{istaustriathesis}{No \string\setthesis \space issued}{%
142     Set thesis type with \string\setthesis.}%
143 }%
144 \newcommand{\istaustriathesis@degreename}{%
145   \ClassError{istaustriathesis}{No \string\setthesis \space issued}{%
146     Set thesis type with \string\setthesis.}%
147 }%
148 \newcommand{\istaustriathesis@thesisname}{%
149   \ClassError{istaustriathesis}{No \string\setthesis \space issued}{%
150     Set thesis type with \string\setthesis.}%
151 }%

```

`\istaustriathesis@thesis@bachelor` Two thesis types are differentiated: master and phd.

```

\istaustriathesis@thesis@master
\istaustriathesis@thesis@doctor
152 \newcommand{\istaustriathesis@thesis@master}{master}%
153 \newcommand{\istaustriathesis@thesis@phd}{phd}%

```

`\ifmaster` Convenience macros to determine the category of the selected thesis type.

```

\ifphd
154 \newcommand{\ifmaster}[1]{%
155   \ifstrequal{\istaustriathesis@thesis@type}{%
156     \istaustriathesis@thesis@master

```

```

157   }{#1}{}%
158 }%
159 \newcommand{\ifphd}[1]{%
160   \ifstrequal{\istaustriathesis@thesis@type}{%
161     \istaustriathesis@thesis@phd
162   }{#1}{}%
163 }%

```

\setthesis Sets the thesis type.

```

164 \newcommand{\setthesis}[1]{%
165   \ifdefstring{\istaustriathesis@thesis@master}{#1}{%

```

Initializes master thesis type.

```

166     \renewcommand{\istaustriathesis@thesis@type}{%
167       \istaustriathesis@thesis@master}%
168     \renewcommand{\istaustriathesis@degreename}{%
169       Master of Science}%
170     \renewcommand{\istaustriathesis@thesisname}{%
171       Master's Thesis}%
172   }{}%
173   \ifdefstring{\istaustriathesis@thesis@phd}{#1}{%

```

Initializes doctor thesis type.

```

174     \renewcommand{\istaustriathesis@thesis@type}{%
175       \istaustriathesis@thesis@phd}%
176     \renewcommand{\istaustriathesis@degreename}{%
177       Doctor of Philosophy}%
178     \renewcommand{\istaustriathesis@thesisname}{%
179       Thesis}%
180   }{}%
181 }%

```

6.2.5 Declarations

Textual Data Creates the required textual data entries.

```

182 \CreateData{title}%
183 \CreateData{subtitle}%
184 \CreateData{issn}%
185 \CreateData{isbn}%

```

Persons Creates the required person entries.

```

186 \CreatePerson{author}%
187 \CreatePerson{supervisor}%
188 \CreatePerson{cosupervisor}%
189 \CreatePerson{committeememberI}%

```

```

190 \CreatePerson{committeememberII}%
191 \CreatePerson{committeememberIII}%
192 \CreatePerson{committeememberIIII}%
193 \CreatePerson{defensechair}%

```

\istaustriathesis@by Define literals.

```

\istaustriathesis@submission
\istaustriathesis@committee
\istaustriathesis@onfile
194 \newcommand{\istaustriathesis@by}{by}%
195 \newcommand{\istaustriathesis@submission}{%
196 \emph{A thesis submitted to the\Graduate School\of the\
197 Institute of Science and Technology Austria\
198 in partial fulfillment of the requirements\
199 for the degree of\\istaustriathesis@degreename}}%
200 \newcommand{\istaustriathesis@committee}{Committee in charge:}%
201 \newcommand{\istaustriathesis@onfile}{Signed page is on file}%

```

6.2.6 License Types

Seven license types are differentiated: `restricted` and six Creative Commons variants `ccby`... The type `choose` is a placeholder before license selection.

```

\istaustriathesis@license@restricted
\istaustriathesis@license@ccby
\istaustriathesis@license@ccbysa
\istaustriathesis@license@ccbynd
\istaustriathesis@license@ccbync
\istaustriathesis@license@ccbyncsa
\istaustriathesis@license@ccbyncnd
202 \newcommand{\istaustriathesis@license@choose}{choose}%
203 \newcommand{\istaustriathesis@license@restricted}{restricted}%
204 \newcommand{\istaustriathesis@license@ccby}{cc-by}%
205 \newcommand{\istaustriathesis@license@ccbysa}{cc-by-sa}%
206 \newcommand{\istaustriathesis@license@ccbynd}{cc-by-nd}%
207 \newcommand{\istaustriathesis@license@ccbync}{cc-by-nc}%
208 \newcommand{\istaustriathesis@license@ccbyncsa}{cc-by-nc-sa}%
209 \newcommand{\istaustriathesis@license@ccbyncnd}{cc-by-nc-nd}%

```

\istaustriathesis@restricted Define literals.

```

\istaustriathesis@ccby
\istaustriathesis@ccbysa
\istaustriathesis@ccbynd
\istaustriathesis@ccbync
\istaustriathesis@ccbyncsa
\istaustriathesis@ccbyncnd
210 \newcommand{\istaustriathesis@choose}{\todo[inline]{Choose a license (i.e., ‘All Rights Reserved’)}}
211 \newcommand{\istaustriathesis@restricted}{All Rights Reserved}%
212 \newcommand{\istaustriathesis@ccby}{%
213 CC BY 4.0 The copyright of this thesis rests with the author. %
214 Unless otherwise indicated, its contents are licensed under a %
215 \href{https://creativecommons.org/licenses/by/4.0/}{%
216 Creative Commons Attribution 4.0 International License}. %
217 Under this license, you may copy and redistribute the material %
218 in any medium or format. You may also create and distribute modified %
219 versions of the work. This is on the condition that: you credit the %
220 author.}%
221 \newcommand{\istaustriathesis@ccbysa}{%
222 CC BY-SA 4.0 The copyright of this thesis rests with the author. %
223 Unless otherwise indicated, its contents are licensed under a %
224 \href{https://creativecommons.org/licenses/by-sa/4.0/}{%
225 Creative Commons Attribution-ShareAlike 4.0 International}. %
226 Under this license, you may copy and redistribute the material %
227 in any medium or format for both commercial and non-commercial %

```

```

228 purposes. You may also create and distribute modified versions %
229 of the work. This on the condition that: you credit the author %
230 and share any derivative works under the same license.}%
231 \newcommand{\istaustriathesis@ccbynd}{%
232 CC BY-ND 4.0 The copyright of this thesis rests with the author. %
233 Unless otherwise indicated, its contents are licensed under a %
234 \href{https://creativecommons.org/licenses/by-nd/4.0/}{%
235 Creative Commons Attribution-NoDerivatives 4.0 International License}. %
236 Under this licence, you may copy and redistribute the material %
237 in any medium or format for both commercial and non-commercial %
238 purposes. This on the condition that: you credit the author and %
239 do not distribute modified versions of the work.}%
240 \newcommand{\istaustriathesis@ccbync}{%
241 CC BY-NC 4.0 The copyright of this thesis rests with the author. %
242 Unless otherwise indicated, its contents are licensed under a %
243 \href{https://creativecommons.org/licenses/by-nc/4.0/}{%
244 Creative Commons Attribution-NonCommercial 4.0 International License}. %
245 Under this license, you may copy and redistribute the material %
246 in any medium or format. You may also create and distribute %
247 modified versions of the work. This is on the condition that: %
248 you credit the author and do not use it, or any derivative %
249 works, for a commercial purpose.}%
250 \newcommand{\istaustriathesis@ccbyncsa}{%
251 CC BY-NC-SA 4.0 The copyright of this thesis rests with the author. %
252 Unless otherwise indicated, its contents are licensed under a %
253 \href{https://creativecommons.org/licenses/by-nc-sa/4.0/}{%
254 Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License}. %
255 Under this license, you may copy and redistribute the material %
256 in any medium or format. You may also create and distribute %
257 modified versions of the work. This is on the condition that: %
258 you credit the author, do not use it for commercial purposes %
259 and share any derivative works under the same license.}%
260 \newcommand{\istaustriathesis@ccbyncnd}{%
261 CC BY-NC-ND 4.0 The copyright of this thesis rests with the author. %
262 Unless otherwise indicated, its contents are licensed under a %
263 \href{https://creativecommons.org/licenses/by-nc-nd/4.0/}{%
264 Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License}. %
265 Under this license, you may copy and redistribute the material %
266 in any medium or format. This is on the condition that: you %
267 credit the author, do not use it for commercial purposes and do %
268 not distribute modified versions of the work.}%

```

`\istaustriathesis@license`

```

269 \newcommand{\istaustriathesis@license}{
270   \ClassError{istaustriathesis}{No license chosen}{Set license type with \string\setlicense.}%
271 }%

```

`\setlicense` Sets the copyright license.

```

272 \newcommand{\setlicense}[1]{
273   \ifdefstring{\istaustriathesis@license@choose}{#1}{%
274     \renewcommand{\istaustriathesis@license}{%
275       \istaustriathesis@choose}%
276   }{}%
277   \ifdefstring{\istaustriathesis@license@restricted}{#1}{%
278     \renewcommand{\istaustriathesis@license}{%
279       \istaustriathesis@restricted}%
280   }{}%
281   \ifdefstring{\istaustriathesis@license@ccby}{#1}{%
282     \renewcommand{\istaustriathesis@license}{%
283       \istaustriathesis@ccby}%
284   }{}%
285   \ifdefstring{\istaustriathesis@license@ccbysa}{#1}{%
286     \renewcommand{\istaustriathesis@license}{%
287       \istaustriathesis@ccbysa}%
288   }{}%
289   \ifdefstring{\istaustriathesis@license@ccbynd}{#1}{%
290     \renewcommand{\istaustriathesis@license}{%
291       \istaustriathesis@ccbynd}%
292   }{}%
293   \ifdefstring{\istaustriathesis@license@ccbync}{#1}{%
294     \renewcommand{\istaustriathesis@license}{%
295       \istaustriathesis@ccbync}%
296   }{}%
297   \ifdefstring{\istaustriathesis@license@ccbyncsa}{#1}{%
298     \renewcommand{\istaustriathesis@license}{%
299       \istaustriathesis@ccbyncsa}%
300   }{}%
301   \ifdefstring{\istaustriathesis@license@ccbyncnd}{#1}{%
302     \renewcommand{\istaustriathesis@license}{%
303       \istaustriathesis@ccbyncnd}%
304   }{}%
305 }%

```

6.3 Layout

6.3.1 Setup

`\newsetlength` Set internal convenience macros.

```

306 \newcommand{\newsetlength}[2]{%
307   \newlength{#1}%
308   \setlength{#1}{#2}%
309 }%

```

`\istaustriathesis@skip` Set style element specifications.

```

\istaustriathesis@medskip
\istaustriathesis@bigskip
310 \newsetlength{\istaustriathesis@skipamount}{1ex}%
311 \newsetlength{\istaustriathesis@medskipamount}{3ex}%

```



```
312 \newsetlength{\istaustriathesis@bigskipamount}{6ex}%
```

Helper functions.

```
313 \newcommand{\istaustriathesis@skip}{%
314   \vspace*{\istaustriathesis@skipamount}}%
315 \newcommand{\istaustriathesis@medskip}{%
316   \vspace*{\istaustriathesis@medskipamount}}%
317 \newcommand{\istaustriathesis@bigskip}{%
318   \vspace*{\istaustriathesis@bigskipamount}}%
```

6.3.2 Title Page

istaustriathesis@pagestyle@titlepage Generate the title page style.

```
319 \copypagestyle{istaustriathesis@pagestyle@titlepage}{empty}%
```

\CommitteeSummaryBlock

```
320 \newcommand{\CommitteeSummaryBlock}{%
321   \istaustriathesis@committee
322   \istaustriathesis@skip
323   \ifmaster{%
324     \\\istaustriathesis@person@supervisor@name, Supervisor
325     \ifdef{\istaustriathesis@person@cosupervisor@def}{%
326       \\\istaustriathesis@person@cosupervisor@name
327     }{%
328       \\\istaustriathesis@person@committeememberI@name
329       \ifdef{\istaustriathesis@person@committeememberII@def}{%
330         \\\istaustriathesis@person@committeememberII@name
331       }{%
332         \ifdef{\istaustriathesis@person@committeememberIII@def}{%
333           \\\istaustriathesis@person@committeememberIII@name
334         }{%
335           \ifdef{\istaustriathesis@person@committeememberIV@def}{%
336             \\\istaustriathesis@person@committeememberIV@name
337           }{%
338             }%
339           \ifphd{%
340             \\\istaustriathesis@person@defensechair@name, Chair
341             \\\istaustriathesis@person@supervisor@name
342             \ifdef{\istaustriathesis@person@cosupervisor@def}{%
343               \\\istaustriathesis@person@cosupervisor@name
344             }{%
345               \\\istaustriathesis@person@committeememberI@name
346               \\\istaustriathesis@person@committeememberII@name
347               \ifdef{\istaustriathesis@person@committeememberIII@def}{%
348                 \\\istaustriathesis@person@committeememberIII@name
349               }{%
350                 \ifdef{\istaustriathesis@person@committeememberIV@def}{%

```

```

351      \\\\istaustriathesis@person@committeememberIIII@name
352      }{}%
353      }%
354 }%

```

`\istaustriathesis@graphics@logo` Define logo.

```

355 \newcommand{\istaustriathesis@graphics@logo}{%
356   \includegraphics[width=5cm]{ISTA_Logo_4c_rgb.pdf}}%

```

`\AddTitlePage` Generates the title page. Multiline title and subtitle are supported.

```

357 \newcommand{\AddTitlePage}{%
358   \thispagestyle{istaustriathesis@pagestyle@titlepage}%
359   \begin{group}\centering
360   \null\vfill
361   {\istaustriathesis@Huge\bfseries\istaustriathesis@data@title\par}
362   {\istaustriathesis@LARGE\bfseries
363     \ifdef{\istaustriathesis@data@subtitle}{%
364       \istaustriathesis@data@subtitle}{%
365     }%
366   \par}
367   \istaustriathesis@skip
368   {\istaustriathesis@large\istaustriathesis@by\par}
369   \istaustriathesis@skip
370   {\istaustriathesis@Large
371     \bfseries\istaustriathesis@person@author@fullname\par}
372   \istaustriathesis@skip
373   {\istaustriathesis@large
374     \DTMmonthname{\DTMfetchmonth{\istaustriathesis@date@signing}}, %
375     \DTMfetchyear{\istaustriathesis@date@signing}}%
376   \par}
377   \vfill
378   {\istaustriathesis@large\istaustriathesis@submission\par}
379   \istaustriathesis@bigskip
380   {\istaustriathesis@large\CommitteeSummaryBlock\par}
381   \istaustriathesis@bigskip
382   \istaustriathesis@graphics@logo\par
383   \endgroup
384   \cleardoublepage
385 }%

```

6.3.3 Committee Page

`\istaustriathesis@pagestyle@committeepage` Generate the committee page style.

```

386 \copypagestyle{istaustriathesis@pagestyle@committeepage}{empty}%

```

`\ApprovalBlock`

```

387 \newcommand{\ApprovalBlock}{%
388   The thesis of \istaustriathesis@person@author@name, %
389   titled \emph{\istaustriathesis@data@title}, is approved by:%
390 }%

```

\SignatureBlock

```

391 \newcommand{\SignatureBlock}[2]{%
392   {\bfseries #1}: #2\par
393   \begin{group}\centering
394     \istaustriathesis@bigskip
395     Signature: \rule{8cm}{0.4pt}\par
396   \end{group}
397 }%

```

\CommitteeBlock

```

398 \newcommand{\CommitteeBlock}{%
399   \ifmaster{%
400     \SignatureBlock{Supervisor}{%
401       \istaustriathesis@person@supervisor@fullnameaffiliation}\par
402       \istaustriathesis@medskip
403       \ifdef{\istaustriathesis@person@cosupervisor@def}{%
404         \SignatureBlock{Co-supervisor}{%
405           \istaustriathesis@person@cosupervisor@fullnameaffiliation}\par
406           \istaustriathesis@medskip
407         }{%
408           \SignatureBlock{Committee Member}{%
409             \istaustriathesis@person@committeememberI@fullnameaffiliation}\par
410             \istaustriathesis@medskip
411             \ifdef{\istaustriathesis@person@committeememberII@def}{%
412               \SignatureBlock{Committee Member}{%
413                 \istaustriathesis@person@committeememberII@fullnameaffiliation}\par
414                 \istaustriathesis@medskip
415               }{%
416                 \ifdef{\istaustriathesis@person@committeememberIII@def}{%
417                   \SignatureBlock{Committee Member}{%
418                     \istaustriathesis@person@committeememberIII@fullnameaffiliation}\par
419                     \istaustriathesis@medskip
420                   }{%
421                     \ifdef{\istaustriathesis@person@committeememberIIII@def}{%
422                       \SignatureBlock{Committee Member}{%
423                         \istaustriathesis@person@committeememberIIII@fullnameaffiliation}\par
424                         \istaustriathesis@medskip
425                       }{%
426                         }%
427                     \ifphd{%
428                       \SignatureBlock{Supervisor}{%
429                         \istaustriathesis@person@supervisor@fullnameaffiliation}\par
430                         \istaustriathesis@medskip

```

```

431 \ifdef{\istaustriathesis@person@cosupervisor@def}{%
432 \SignatureBlock{Co-supervisor}{%
433 \istaustriathesis@person@cosupervisor@fullnameaffiliation}\par
434 \istaustriathesis@medskip
435 }{}%
436 \SignatureBlock{Committee Member}{%
437 \istaustriathesis@person@committeememberI@fullnameaffiliation}\par
438 \istaustriathesis@medskip
439 \SignatureBlock{Committee Member}{%
440 \istaustriathesis@person@committeememberII@fullnameaffiliation}\par
441 \istaustriathesis@medskip
442 \ifdef{\istaustriathesis@person@committeememberIII@def}{%
443 \SignatureBlock{Committee Member}{%
444 \istaustriathesis@person@committeememberIII@fullnameaffiliation}\par
445 \istaustriathesis@medskip
446 }{}%
447 \ifdef{\istaustriathesis@person@committeememberIIII@def}{%
448 \SignatureBlock{Committee Member}{%
449 \istaustriathesis@person@committeememberIIII@fullnameaffiliation}\par
450 \istaustriathesis@medskip
451 }{}%
452 \SignatureBlock{Defense Chair}{%
453 \istaustriathesis@person@defensechair@fullnameaffiliation}\par
454 }%
455 }%

```

`\AddCommitteePage` Generates the committee page with signature fields.

```

456 \newcommand{\AddCommitteePage}{%
457 \thispagestyle{istaustriathesis@pagestyle@committeepage}%
458 \ApprovalBlock\par
459 \vfill
460 \CommitteeBlock\par
461 \istaustriathesis@medskip
462 \begingroup\centering
463 {\istaustriathesis@small\istaustriathesis@onfile\par}
464 \endgroup
465 \cleardoublepage
466 }%

```

6.3.4 Statement Page

`athesis@pagestyle@statementpage` Generate the statement page style.

```

467 \copypagestyle{istaustriathesis@pagestyle@statementpage}{empty}%

```

`\CopyrightBlock`

```

468 \newcommand{\CopyrightBlock}{%
469 \begingroup\centering

```

```

470 \textcopyright\ by \istaustriathesis@person@author@name, %
471 \DTMmonthname{\DTMfetchmonth{\istaustriathesis@date@signing}}, %
472 \DTMfetchyear{\istaustriathesis@date@signing}\\
473 \endgroup
474 \begingroup
475 \setlength{\parindent}{0pt}%
476 \setlength{\leftskip}{0pt plus 0.5fil}%
477 \setlength{\rightskip}{0pt plus -0.5fil}%
478 \istaustriathesis@license%
479 \par
480 \endgroup
481 }%

```

\ISSNBlock

```

482 \newcommand{\ISSNBlock}{%
483   ISTA \istaustriathesis@thesisname%
484   \ifdef{\istaustriathesis@data@issn@def}{%
485     , ISSN: \istaustriathesis@data@issn
486   }{}\par
487 }%

```

\ISBNBlock

```

488 \newcommand{\ISBNBlock}{%
489   \ifdef{\istaustriathesis@data@isbn@def}{%
490     \istaustriathesis@medskip
491     ISBN: \istaustriathesis@data@isbn\par
492   }{}\par
493 }%

```

\StatementBlock

```

494 \newcommand{\StatementBlock}{%
495   \noindent I hereby declare that this thesis is my own work and that %
496   it does not contain other people's work without this being so %
497   stated; this thesis does not contain my previous work without this %
498   being stated, and the bibliography contains all the literature that %
499   I used in writing the dissertation.\par
500   \istaustriathesis@medskip
501   \noindent I accept full responsibility for the content and factual %
502   accuracy of this work, including the data and their analysis and %
503   presentation, and the text and citation of other work.\par
504   \istaustriathesis@medskip
505   \noindent I declare that this is a true copy of my thesis, including %
506   any final revisions, as approved by my thesis committee, and that %
507   this thesis has not been submitted for a higher degree to any other %
508   university or institution.\par
509   \istaustriathesis@medskip
510   \noindent I certify that any republication of materials presented in %

```

```

511   this thesis has been approved by the relevant publishers and %
512   co-authors.%
513 }%

```

`\AddStatementPage` Generates the statement and copyright page with signature field.

```

514 \newcommand{\AddStatementPage}{%
515   \thispagestyle{istaustriathesis@pagestyle@statementpage}%
516   \CopyrightBlock\par
517   \istaustriathesis@bigskip
518   \begingroup\centering
519   \ISSNBlock
520   \ifphd{%
521     \ISBNBlock
522   }%
523   \endgroup
524   \istaustriathesis@bigskip
525   \StatementBlock\par
526   \istaustriathesis@bigskip
527   \begingroup\centering
528   Signature: \rule{6cm}{0.4pt}\par
529   \istaustriathesis@skip
530   \istaustriathesis@person@author@name\\
531   \DTMmonthname{\DTMfetchmonth{istaustriathesis@date@signing}}, %
532   \DTMfetchyear{istaustriathesis@date@signing}\par
533   \vfill
534   {\istaustriathesis@small\istaustriathesis@onfile\par}
535   \endgroup
536   \cleardoublepage
537 }%

```

6.3.5 Front Matter Material

`\addtitlepage` Generates the titlepage.

```

538 \newcommand{\addtitlepage}{%
539   \AddTitlePage}%

```

`\addcommitteepage` Generates the committee page.

```

540 \newcommand{\addcommitteepage}{%
541   \AddCommitteePage}%

```

`\addstatementpage` Generates the statemet page.

```

542 \newcommand{\addstatementpage}{%
543   \AddStatementPage}%

```

`abstract` Generates the abstract page.

```

544 \renewenvironment{abstract}{%
545   \chapter{Abstract}%
546 }{%

```

acknowledgements Generates the acknowledgements page.

```

547 \newenvironment{acknowledgements}{%
548   \openany% Start on next page
549   \chapter{Acknowledgements}%
550 }{%
551   \openright% Reactivate standard behavior
552 }%

```

aboutauthor Generates the about the author page.

```

553 \newenvironment{aboutauthor}{%
554   \openany% Start on next page
555   \chapter{About the Author}%
556 }{%
557   \openright% Reactivate standard behavior
558 }%

```

publicationlist Generates the list of publications page.

```

559 \newenvironment{publicationlist}{%
560   \openany% Start on next page
561   \chapter{List of Collaborators and Publications}%
562 }{%
563   \openright% Reactivate standard behavior
564 }%

```

7 Change History

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