Gradu — A Class for Writing Master's Thesis at the Faculty of Information Technology of the University of Jyväskylä

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Abstract

This class is designed to facilitate the writing of a Master's Thesis (and other thesis) work at the Department of Information Technology of the University of Jyväskylä. It may also be used elsewhere if it conforms to their requirements.

1 Invocation

Invoke the class with the usual `\documentclass{gradu2}`.

1.1 Language Options

Languages options set hyphenation, titles translations and date formats to the selected language. The available languages are:

`finnish` switches to Finnish language (default)

`english` switches to English language

You can switch at any time from one of those languages to the other one with `\selectlanguage{`*language*`}`.

1.2 Input Character Set

Input character set options allow to specify with what character set the source file is written. Available character sets are:

ascii ASCII encoding (ISO 646)

latin1 ISO-8859-1 encoding (Western Europe languages) (default)

latin2 ISO-8859-2 encoding (Central Europe languages)

latin3 ISO-8859-3 encoding (Esperanto, Maltese)

latin5 ISO-8859-5 encoding (Cyrillic)

latin9 ISO-8859-15 encoding (Western European languages with the Euro symbol)

applemac Macintosh encoding

ansinew Windows 3.11 ANSI (extended ISO-8859-1) encoding

cp1252 synonym for **ansinew**

cp1250 MS Windows 1250 (central and eastern Europe languages) code page

decmulti DEC Multinational Character Set encoding

next Next encoding

cp437 IBM 437 code page

cp437de IBM 437 code page (German version)

cp850 IBM 850 code page

cp852 IBM 852 code page

cp865 IBM 865 code page

Usual encodings, by platform, are:

Linux latin1 (or nowadays more often than not, latin9)

MS Windows cp1252

Macintosh applemac

2 Copyrights

The class outputs copyright assertion by default. This can be inhibited.

`copyright` Output copyright assertion and license information on the second title page (default).

`nocopyright` Do not output copyright assertion and license information.

3 Other options

`numbib` Number bibliography (default).

`nonumbib` Do not number bibliography.

`newtitle` A different title page format (attempts to conform to CS dept requirements)

`shortthesis` This is a short thesis; no chapters will be used. (For Bachelor's theses etc.)

`altsubsec` Alternate layout for subsections (the first line of the paragraph is on the same line as the title of the subsection)

4 Header Commands

The following commands can be used before the `\begin{document}`. Some of those are optional (their default values are described along with the command) and the others are mandatory. If one of the mandatory commands is not used, a reminder will be printed inside the document.

`\title` document's title (mandatory)

`\author` documents's author (mandatory) **deprecated, use \setauthor instead**

`\setauthor` document's author (two arguments: first names and surname) (mandatory)

`\date` document's publishing date (defaults to the current date) **deprecated, use \setdate instead**

`\setdate` takes three arguments: day, month, year (all numeric); sets document's publishing date (defaults to the current date)

`\yliopisto` the university to which this thesis will be submitted, in Finnish (defaults to "Jyväskylän yliopisto")

`\yliopisto` the university to which this thesis will be submitted, in English (defaults to "University of Jyväskylä")

`\laitos` the department to which this thesis will be submitted (defaults to "Tietotekniikan laitos" in Finnish and "Department of Mathematical Information Technology" in English)

`\aine` the formal subject (major or minor) whose thesis this is (defaults to "Tietotekniikan" in Finnish and "in Information Technology" in English

`\linja` study line (optional)

`\tyyppi` type of work in Finnish (defaults to "pro gradu -tutkielma")

`\type` type of work in English (defaults to "A Master's Thesis")

`\keywords` document's keywords in English (mandatory)

`\avainsanat` document's keywords in Finnish (mandatory)

`\contactinformation` author's contact information (mandatory)

`\yhteystiedot` author's contact information (synonym of `\contactinformation`)

`\tiivistelma` abstract in Finnish (mandatory)

`\abstract` abstract in English (mandatory)

`\translatedtitle` title in the other language (mandatory)

`\copyrightowner` owner of the copyright (defaults to the author's name)

`\license` license under which the document is published (defaults to "All rights reserved.")

`\copyrightyear` copyright year (defaults to the current year)

5   Sectioning Commands

The available sectioning commands are:

`\preface` Preface

`\termlist` List of terms

`\mainmatter` Marks the beginning of the main part of the document. Should appear before the first `\chapter`. Inserts the table of contents, the list of tables and the list of figures. Switches on chapter numbering; switches the page numbering from lowercase roman to arabic, starting from 1 again.

`\chapter` Beginning of a chapter

`\section` Beginning of a section

`\subsection` Beginning of a subsection

Note that `\subsubsection`, `\paragraph` and `\subparagraph` are forbidden.

In addition to the previous commands, there are three useful environments:

`thebibliography` allows to specify a list of references. Should be put before the appendices.

`appendix` inserts an "Appendices" line into the table of contents and the chapters inside the environments will be numbered with letters instead of numbers, beginning from "A".

`chapterquote` allows you to add a quote to the beginning of a chapter. It takes one mandatory argument: the attribution line for the quote. You should start the text of the chapter immediately after this environment; do not leave empty lines there.