

The `uwathes` class

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1 Introduction

The file `uwathes.dtx` is the master file for the \LaTeX class, `uwathes`, which provides a class for writing theses for \LaTeX users in the Department of Mathematics & Statistics at the University of Western Australia. It is built on the standard \LaTeX `book` class with option `a4paper`. It provides a document class for typesetting theses that complies with specifications of the University of Western Australia. The author wishes to thank Ivano Pinneri, whose thesis master file provided an excellent starting point for the creation of this document class.

2 Implementation

The usual name, date, and version information.

```
1 \typeout{uwathes 1.1a}
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesClass{uwathes}[1999/12/06 v1.1a]
```

We build the class `uwathes` on top of \LaTeX 's `book` class with option `a4paper`.

3 Options

Since the `uwathes` class is built on L^AT_EX's `book` class it inherits all the usual `book` options, and all the usual settings, except that the default paper size option in the `uwathes` class is `a4paper`. In particular, this means that the `oneside` and `twoside` options of the `book` class are available, and that the default setting is

`twoside`

Aside from these inherited options, the `uwathes` class provides the following options:

`honours` This option is experimental. Undoubtedly, it could do with some tweaking, but should be adequate, since the restrictions on Honours Dissertations are somewhat looser than PhD theses. By default: *not applied*.

`library` Set the left margin to 4 cm and the right margin to 2 cm, to fulfil requirements of the University of Western Australia's library (for binding). By default: *applied*.

`nolibrary` Centre the text laterally so that left and right margins are both 3 cm. By default: *not applied*.

```

4 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
5 \newif\if@honours
6 \DeclareOption{honours}{\@honourstrue}
7 \newif\if@library
8 \DeclareOption{library}{\@librarytrue}
9 \newif\if@nolibrary
10 \DeclareOption{nolibrary}{\@libraryfalse}
11 \ExecuteOptions{library}
12 \ProcessOptions\relax
13 \LoadClass[a4paper]{book}

```

4 Commands and environments

4.1 Page dimensioning commands

The `\calclayout` command determines the value of `\textheight`, `\topmargin` and `\oddsidemargin`, from the values of `\paperheight`, `\textheight`, `\textbodyheight`, `\textwidth`, `\headheight`, `\headsep`, `\footskip` and `\textwidth`. It is loosely based on a command from the `amsbook` class. When the `library` option is selected (it *is* selected by default; deselect it with the `nolibrary` option) the text is shifted right 1 cm so that the left margin is the University of Western Australia library's required 4 cm (so long as the user has *not* changed the setting of `\textwidth` below).

```

14 \def\calclayout{\global\textheight\textbodyheight
15 \global\advance\textheight -\headheight
16 \global\advance\textheight -\headsep
17 \global\advance\textheight -\footskip
18 \global\oddsidemargin\paperwidth

```

```

19 \global\advance\oddsidemargin -\textwidth
20 \global\divide\oddsidemargin\tw@ \global\advance\oddsidemargin -1truein
21 \global\evensidemargin\oddsidemargin
22 \global\topmargin\paperheight
23 \global\advance\topmargin -\textbodyheight
24 \global\divide\topmargin\tw@ \global\advance\topmargin -1truein\relax
25 \if@library \global\addtolength{\evensidemargin}{-1cm}
26           \global\addtolength{\oddsidemargin}{1cm}
27 \fi}

```

Now we set the page parameters. We introduce a new dimensional parameter `\textbodyheight` which is the sum of `\headheight`, `\headsep`, `\textheight` and `\footskip`, i.e. `\textbodyheight` is `\pageheight` minus the top and bottom margins. We leave `\headsep` and `\footskip` with the values set by the book. The parameter `\headheight` is set to 2 \baselineskip by default. We set `\textbodyheight` to be 4 cm less than `\paperheight` and `\textwidth` to be 6 cm less than `\paperwidth`. With these settings the `\calclayout` command centres the text so that the top and bottom margins are each 2 cm. If `nolibrary` has been selected the text is also centred laterally so that the left and right margins are each 3 cm; by default, however, the left margin is increased by 1 cm and the right margin is decreased by 1 cm. In this way, we comply with the wishes of the University of Western Australia library which specifies that the margin near the binding must be at least 4 cm and other margins at least 2 cm, and the pagebreaks occur in the same place when the option `nolibrary` is selected. If the user specifies the `oneside` option the setting of `\evensidemargin` (the left margin on even-numbered pages) is ignored. By default, (as with the standard L^AT_EX book the `twoside` option is selected.

It is not expected that the user will need to change the page parameters in any way, but if she must the only *safe* ones to adjust are `\textbodyheight` and `\textwidth`, and perhaps `\headsep` and `\footskip`. These are dimensional parameters; use L^AT_EX's `\setlength` command to modify them. After modifying any or all of these issue a `\calclayout` command. Ordinarily, one changes `\paperheight` and `\textheight` by choosing a `\documentclass` option e.g. `letterpaper` (the default is `a4paper`).

```

28 \newdimen\textbodyheight \textbodyheight\paperheight
29 \addtolength{\textbodyheight}{-4cm}
30 \setlength{\textwidth}{\paperwidth}
31 \addtolength{\textwidth}{-6cm}
32 \normalsize
33 \setlength{\headheight}{2\baselineskip}
34 \calclayout
35 \setlength{\marginparsep}{4mm}
36 \setlength{\marginparwidth}{12mm}

```

4.2 Standard AMS stuff

We ensure that the $\mathcal{A}\mathcal{M}\mathcal{S}$ -L^AT_EX packages `amsmath` [1], `amsfonts` and `amsthm` [3] are loaded. The latter of these provides more developed theorem environments than standard L^AT_EX. You get still more if you use the `uwamaths` package [4].

The proof environment is redefined to give a **bold** header (it's done in the same way as the uwamaths package [4]).

```

37 \RequirePackage{amsmath}\relax
38 \ifx\relax\mathfrak \exp@gobbletwo \else \let\mathfrak\relax \fi
39 \RequirePackage{amsfonts}\relax
40 \RequirePackage{amsthm}\relax
41 \renewenvironment{proof}[1][\proofname]{\par
42   \normalfont
43   \topsep6p@\@plus6p@ \trivlist
44   \item[\hskip\labelsep\bfseries
45     #1\@addpunct{.}]\ignorespaces
46   }{%
47   \qed\endtrivlist
48   }%

```

The following $\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ command tells $\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ to allow breaks within maths displays but to avoid them as much as possible.

```
49 \allowdisplaybreaks[1]
```

4.3 Titlepage commands and environments

Now we set up commands for the titlepage. The commands `\title`, `\author` and `\date` are used in the usual way. The command `\thismonth` macro is essentially `\today` without the day, and may be used within `\date`. The `\author` and `\title` commands are straight from the `amsbook` class.

```

50 \renewcommand{\title}[2][\gdef\shorttitle{#1}\gdef\@title{#2}]
51 \edef\title{\@nx\@dblarg
52   \@xp\@nx\csname\string\title\endcsname}
53 \renewcommand{\author}[2][\gdef\shortauthors{#1}\gdef\authors{#2}]
54 \edef\author{\@nx\@dblarg
55   \@xp\@nx\csname\string\author\endcsname}
56 \let\shortauthors\@empty \let\authors\@empty
57 \def\thismonth{\ifcase\month\or
58   January\or February\or March\or April\or May\or June\or
59   July\or August\or September\or October\or
60   November\or December\fi}

```

Now we provide commands `\dept`, `\institution` and `\degree`. The user will probably not need to change these from their default values. They are used just once in the `\thanks` command.

```

61 \newcommand{\dept}[1]{\gdef\department{#1}}
62 \newcommand{\institution}[1]{\gdef\theinstitution{#1}}
63 \newcommand{\degree}[1]{\gdef\thedegree{#1}}
64 \renewcommand{\thanks}[1]{\let\thankses\@empty
65   \g@addto@macro\thankses{\thanks{#1}}}
66 \dept{Department of Mathematics \& Statistics}
67 \institution{The University of Western Australia}
68 \if@honours
69   \degree{Bachelor Science with Honours}
70 \else
71   \degree{Doctor of Philosophy}

```

```

72 \fi
73 \if@honours
74 \thanks{This dissertation is submitted in partial fulfilment\\
75         of the requirements for the degree of\\
76         \thedegree\\
77         at \theinstitution\\
78         \department}
79 \else
80 \thanks{This thesis is presented for the degree of\\
81         \thedegree\\
82         of \theinstitution\\
83         \department}
84 \fi

```

The value of `\thanks` is set in the titlepage by the `\maketitle` command. The `\maketitle` command itself, is a simplified version of the one from the book class.

```

85 \renewcommand\maketitle{\par
86 \frontmatter
87 \begingroup
88 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
89 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
90 \long\def\@makefntext##1{\parindent 1em\noindent
91     \hb@xt@1.8em{%
92     \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
93 \maketitle
94 \endgroup
95 \setcounter{footnote}{0}%
96 \global\let\thanks\relax
97 \global\let\maketitle\relax
98 \global\let\@maketitle\relax
99 \global\let\@thanks\@empty
100 \global\let\@author\@empty
101 \global\let\@date\@empty
102 \global\let\@title\@empty
103 \global\let\title\relax
104 \global\let\author\relax
105 \global\let\date\relax
106 \global\let\and\relax
107 }
108 \def\@maketitle{\cleardoublepage \thispagestyle{empty}%
109 \begingroup \topskip\z@skip
110 \null\vfil
111 \begingroup
112 \vspace*{2cm}
113 \Huge\bfseries \centering
114 \openup\medskipamount
115 \@title\par\vspace{24pt}%
116 \centering
117 \mdseries\authors\par\bigskip

```

```

118 \endgroup
119 \vspace{6cm}
120 \begin{center}
121   \ifx\@empty\thankses\else\@setthanks\\\fi
122   \ifx\@empty\@date\thismonth, \number\year\else\@date\fi
123 \end{center}
124 \endgroup}
125 \def\@setthanks{\def\thanks##1{\par##1\@addpunct.}\thankses}

```

4.4 Front matter, index and bibliography environments

We now create the abstract, acknowledgements, dedication, preface, theglossary and thesymbols environments. The preface environment is not expected to have wide usage; it has been included only because one user requested it.

```

126 \newcommand{\abstractname}{Abstract}
127 \newenvironment{abstract}{\cleardoublepage
128   \section*{\abstractname}
129   \@mkboth{\abstractname}{\abstractname}%
130   \addcontentsline{toc}{chapter}{\abstractname}}{}
131 \newenvironment{acknowledgements}%
132   {\renewcommand{\abstractname}{Acknowledgements}%
133   \begin{abstract}}
134   {\end{abstract}}
135 \newenvironment{dedication}%
136   {\renewcommand{\abstractname}{Dedication}%
137   \begin{abstract}}
138   {\end{abstract}}
139 \newenvironment{preface}%
140   {\renewcommand{\abstractname}{Preface}%
141   \begin{abstract}}
142   {\end{abstract}}
143 \newcommand{\glossaryname}{Glossary}
144 \newenvironment{theglossary}%
145   {\chapter*{\glossaryname}
146   \@mkboth{\glossaryname}{\glossaryname}%
147   \addcontentsline{toc}{chapter}{\glossaryname}
148   \thispagestyle{plain}
149   \begin{description}}
150   {\end{description}}
151 \newcommand{\listsymbolsname}{List of Symbols}
152 \newenvironment{thesymbols}%
153   {\chapter*{\listsymbolsname}
154   \@mkboth{\listsymbolsname}{\listsymbolsname}%
155   \addcontentsline{toc}{chapter}{\listsymbolsname}
156   \thispagestyle{plain}
157   \begin{description}}
158   {\end{description}}

```

Analogous to the commands `\makeglossary`, `\glossaryentry` and `\glossary` [2], we define `\makesymbols`, `\symbolsentry` and `\symbols` commands for gen-

erating a **List of Symbols**. Thus a command `\makesymbols` in the preamble causes the opening of a `.sym` file. Then `\symbols` causes `\symbolentry`s to be written to the `.sym` file. It is then up to the user to create from the `.sym` file a `.smb` file that contains a `thesymbols` environment conceivably by creating an appropriate `.ist` (indexstyle) file and then running `MakeIndex` with the appropriate options. To cause the `.smb` file to be included in a document the user issues a `\printsymbols` command. See a bit later below.

```

159 \def\makesymbols{%
160   \newwrite\@symbolsfile
161   \immediate\openout\@symbolsfile=\jobname.sym
162   \def\symbols{\@bsphack\begingroup
163     \@sanitize
164     \@wrsymbols}\typeout
165     {Writing symbols file \jobname.sym }%
166   \let\makesymbols\@empty
167 }
168 \@onlypreamble\makesymbols
169 \def\@wrsymbols#1{%
170   \protected@write\@symbolsfile{%
171     {\string\symbolsentry{#1}{\thepage}}%
172   \endgroup
173   \@esphack}
174 \def\symbols{\@bsphack\begingroup\@sanitize\@index}

```

We provide `\printglossary` and `\printsymbols` commands, analogous to `\printindex`.

```

175 \newcommand\printglossary{\@input{\jobname.gls}}%
176 \newcommand\printsymbols{\@input{\jobname.smb}}%

```

We redefine the `\listoftables` and `\listoffigures` commands, and the `thebibliography` and `theindex` environments to add a contents line to the table of contents. Since we prefer headlines not to be entirely uppercase, uses of `\MakeUppercase` for (headline) marks have also been deleted. The \LaTeX book class doesn't issue marks when the `\chapter*` macro is used – from the code below one can see an explicit use of `\@mkboth` in each of `\listoffigures`, `\listoftables`, `thebibliography` and `theindex`. This serves as a warning to users that `\chapter*` is really a low-level command and should normally be used in the make-up of higher level commands in the *preamble* or a user's personal macros file.

```

177 \renewcommand\listoffigures{%
178   \if@twocolumn
179     \@restonecoltrue\onecolumn
180   \else

```

```

181     \@restonecolfalse
182     \fi
183     \chapter*{\listfigurename
184         \addcontentsline{toc}{chapter}{\listfigurename}
185         \@mkboth{\listfigurename}{\listfigurename}}%
186     \@starttoc{lof}%
187     \if@restonecol\twocolumn\fi
188     }
189 \renewcommand\listoftables{%
190     \if@twocolumn
191         \@restonecoltrue\onecolumn
192     \else
193         \@restonecolfalse
194     \fi
195     \chapter*{\listtablename
196         \addcontentsline{toc}{chapter}{\listtablename}
197         \@mkboth{\listtablename}{\listtablename}}%
198     \@starttoc{lot}%
199     \if@restonecol\twocolumn\fi
200     }
201 \renewenvironment{thebibliography}[1]
202     {\chapter*{\bibname
203         \addcontentsline{toc}{chapter}{\bibname}
204         \@mkboth{\bibname}{\bibname}}%
205     \list{\@biblabel{\@arabic\c@enumiv}}%
206         {\settowidth\labelwidth{\@biblabel{#1}}%
207         \leftmargin\labelwidth
208         \advance\leftmargin\labelsep
209         \@openbib@code
210         \usecounter{enumiv}%
211         \let\p@enumiv\@empty
212         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
213     \sloppy\clubpenalty4000\widowpenalty4000%
214     \sfcode'\.\@m}
215     {\def\@noitemerr
216         {\@latex@warning{Empty 'thebibliography' environment}}%
217     \endlist}
218 \renewenvironment{theindex}
219     {\if@twocolumn
220         \@restonecolfalse
221     \else
222         \@restonecoltrue
223     \fi
224     \columnseprule \z@
225     \columnsep 35\p@
226     \twocolumn[\@makeschapterhead{\indexname}]%
227     \addcontentsline{toc}{chapter}{\indexname}
228     \@mkboth{\indexname}{\indexname}%
229     \thispagestyle{plain}\parindent\z@
230     \parskip\z@ \@plus .3\p@\relax

```

```

231         \let\item\@idxitem}
232         {\if@restonecol\onecolumn\else\clearpage\fi}

```

In case you want an index we have the following code (also from the `amsbook` class).

```

233 \newcommand\seename{see also}%
234 \newcommand\see[2]{\em \seename\} #1}%
235 \newcommand\printindex{\@input{\jobname.ind}}%

```

For convenience we provide `\indx`, `\gloss` and `\symb` as shorthand for indexing, glossary and symbols listing commands to deal with the most usual way we would use `\index`, `\glossary` and `\symbols` e.g.

| | | |
|---------------------------|-------------|---|
| <code>\indx{gnat}</code> | abbreviates | <code>gnat\index{gnat}</code> |
| <code>\gloss{gnat}</code> | abbreviates | <code>\emph{gnat}\glossary{gnat}</code> |
| <code>\symb{=}</code> | abbreviates | <code>=\symbols{%=}</code> |

The abbreviation `\symb` assumes that the symbol is a math-mode symbol – don't use it, if your symbol is not a math-mode symbol. Also, don't use `\symb` if its argument has arguments.

```

236 \newcommand{\indx}[1]{#1\index{#1}}
237 \newcommand{\gloss}[1]{\emph{#1}\glossary{#1}}
238 \newcommand{\symb}[1]{#1\symbols{\ensuremath{#1}}}

```

4.5 Sectioning commands

Now we set up sections and chapters headers in the style of the `amsbook` class. The macros are straight from the `amsbook` class except that for the chapterhead macros the setting of `\topskip` was removed ... since besides wasting paper this upset the `\topskip` on subsequent pages.

```

239 \newdimen\linespacing
240 \normalsize
241 \setlength{\linespacing}{\baselineskip}
242 \newdimen\normalparindent
243 \setlength{\normalparindent}{18pt}
244 \def\@makechapterhead#1{%
245   \begingroup
246   \fontsize{\@xivpt}{18}\bfseries\centering
247   \ifnum\c@secnumdepth>\m@ne
248     \leavevmode \hskip-\leftskip
249     \rlap{\vbox to\z@{\vss
250       \centerline{\normalsize\mdseries
251         \uppercase\@xp{\chaptername}\enspace\thechapter}
252       \vskip 3pc}}\hskip\leftskip\fi
253   #1\par \endgroup
254   \skip@34\p@ \advance\skip@-\normalbaselineskip
255   \vskip\skip@ }
256 \def\@makeschapterhead#1{%
257   \begingroup
258   \fontsize{\@xivpt}{18}\bfseries\centering
259   #1\par \endgroup

```

```

260 \skip@34\p@ \advance\skip@-\normalbaselineskip
261 \vskip\skip@ }
262 \def\section{\@startsection{section}{1}%
263 \z@{.7\linespacing\@plus\linespacing}{.5\linespacing}%
264 {\normalfont\bfseries\centering}}
265 \def\subsection{\@startsection{subsection}{2}%
266 \normalparindent{.5\linespacing\@plus.7\linespacing}{-.5em}%
267 {\normalfont\bfseries}}
268 \def\subsubsection{\@startsection{subsubsection}{3}%
269 \normalparindent\z@{-.5em}%
270 {\normalfont\itshape}}
271 \def\paragraph{\@startsection{paragraph}{4}%
272 \normalparindent\z@{-\fontdimen2\font}%
273 \normalfont}
274 \def\subparagraph{\@startsection{subparagraph}{5}%
275 \z@\z@{-\fontdimen2\font}%
276 \normalfont}
277 \def\appendix{\par
278 \c@chapter\z@ \c@section\z@
279 \let\chaptername\appendixname
280 \def\thechapter{\@Alph\c@chapter}}

```

To get nice page headers we use the fancyhdr package.

```

281 \RequirePackage{fancyhdr}
282 \addtolength{\headwidth}{5truemm}
283 \lhead[\fancyplain{\hskip-5mm\bfseries\thepage}{\bfseries\thepage}]%
284 {\fancyplain{}{\sffamily\slshape\rightmark}}
285 \chead[{}]{}
286 \rhead[\fancyplain{}{\sffamily\slshape\leftmark}]%
287 {\fancyplain{\begin{picture}(0,0)%
288 \put(0,0){\makebox[5truemm][r]{\bfseries\thepage}}%
289 \end{picture}}{\bfseries\thepage}}
290 \cfoot{}
291 \pagestyle{fancyplain}
292 \renewcommand{\chaptermark}[1]{\markboth{%
293 \ifnum \c@secnumdepth >\m@ne
294 \if@mainmatter
295 \chapapp\ thechapter. \ %
296 \fi
297 \fi
298 #1}{%
299 \ifnum \c@secnumdepth >\m@ne
300 \if@mainmatter
301 \chapapp\ thechapter. \ %
302 \fi
303 \fi
304 #1}}
305 \renewcommand{\sectionmark}[1]{\markright{%
306 \ifnum \c@secnumdepth >\z@
307 \thesection. \ %

```

```
308 \fi
309 #1}}
```

We redefine `\frontmatter` and `\mainmatter` so that they also change the pagestyle. The user should never need to use `\frontmatter` (it is used in the `\maketitle` command) but should use `\mainmatter` to specify the start of the thesis text.

```
310 \renewcommand\frontmatter{%
311 \if@openright
312 \cleardoublepage
313 \else
314 \clearpage
315 \fi
316 \@mainmatterfalse
317 \pagestyle{plain}
318 \pagenumbering{roman}}
319 \renewcommand\mainmatter{%
320 \if@openright
321 \cleardoublepage
322 \else
323 \clearpage
324 \fi
325 \@mainmattertrue
326 \pagestyle{fancyplain}
327 \pagenumbering{arabic}}
```

We make available some spacing macros. The amounts of stretch are those specified for 12 pt by the *L^AT_EX Companion* [5]. Other font sizes differ from these only marginally. See the `uwamaths` package [4] where the same macros are defined, for further discussion of these macros.

```
328 \newcommand{\singlespacing}{\renewcommand{\baselinestretch}{1}}
329 \newcommand{\oneandhalfspacing}{\renewcommand{\baselinestretch}{1.24}}
330 \newcommand{\doublespacing}{\renewcommand{\baselinestretch}{1.66}}
```

Now we modify the standard L^AT_EX macros `\@startsection` and `\chapter` (the latter is defined in the book class) by adding `\AtBeginSection{#1}` in an appropriate place. The purpose and examples of use of `\AtBeginSection` are described a little later, below.

```
331 \def\@startsection#1#2#3#4#5#6{%
332 \if@noskipsec \leavevmode \fi
333 \par \@tempskipa #4\relax
334 \@afterindenttrue
335 \ifdim \@tempskipa <\z@ \@tempskipa -\@tempskipa \@afterindentfalse\fi
336 \if@nobreak \everypar{}\else
337 \addpenalty\@secpenalty\addvspace\@tempskipa\fi
338 \@ifstar{\@ssect{#3}{#4}{#5}{#6}}%
339 {\@beginsection{#1}%
340 \@dblarg{\@sect{#1}{#2}{#3}{#4}{#5}{#6}}}}
341 \renewcommand\chapter{%
342 \if@openright\cleardoublepage\else\clearpage\fi
```

```

343 \thispagestyle{plain}%
344 \AtBeginSection{chapter}%
345 \global\@topnum\z@
346 \@afterindentfalse
347 \secdef\@chapter\@schapter}

```

We define `\AtBeginSection` to be a no-op by default.

```
348 \def\AtBeginSection#1{\relax}
```

Now we define the macro that motivated the desire to have something like `\AtBeginSection`. $\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ defines a macro `\numberwithin` which doesn't work as desired in the case where a counter is already numbered within a sectional unit – one can end up with duplicate chapter numbers for a table, for example. Hence we provide a macro `\numberin` which otherwise works in the manner described for `\numberwithin` in [1], e.g.

```
\numberin{table}{chapter}
```

will cause tables to be numbered within chapters. To get the order of the arguments right, read the above command this way: *number table in chapter*. (You will get strange effects if you get the arguments the wrong way round.)

```

349 \newcommand{\numberin}[2]{%
350   \@addtoreset{#1}{#2}%
351   \@xp\@xp\@xp\renewcommand\@xp{\csname the#1\endcsname}{%
352     \csname the#2\endcsname.\arabic{#1}}

```

(For those curious about what `\@xp` does: `\@xp` is an $\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ abbreviation for $\mathcal{T}\mathcal{E}\mathcal{X}$'s `\expandafter`. The above configuration of `\expandafter` commands is described in [6, page 374].) Now, we describe a use for `\AtBeginSection`. Suppose we want numbering to be within the particular sectional unit a numbered item resides, i.e. if it is in a subsection we want it numbered subordinate to the subsection counter, if it is in a chapter (but not in a smaller unit) we want it numbered subordinate only to the chapter counter, etc. We could issue `\numberin` commands each time we enter a new chapter, section, subsection, (We can't use `\numberwithin` to do this ... we would end up with longer and longer strings of duplicated sectional numbers.) This is where `\AtBeginSection` comes in. To automatically number tables, figures and equations within the smallest current sectional unit, one would redefine `\AtBeginSection` as follows.

```

\renewcommand{\AtBeginSection}[1]{\numberin{table}{#1}
\numberin{figure}{#1}
\numberin{equation}{#1}}

```

`\AtBeginSection` *must* be defined with one argument. When called by the `\chapter` or `\startsection` command (`\startsection` command is invoked by `\section`, `\subsection`, ...) the `#1` in the body of the `\AtBeginSection` command definition is the current sectional unit (e.g. `chapter`, `section`, `subsection`, ...). The `uwamaths` package [4] defines a number of theorem environments and a command `\numberallin`. Since the theorem environments

aren't actually defined by this class, we don't provide `\numberallin`. Suppose, however, that you are loading the package `uwamaths`, then to also number the theorem environments within the smallest current sectional unit one could instead redefine `\AtBeginSection` as follows.

```
\renewcommand{\AtBeginSection}[1]{\numberallin{#1}}
```

Presumably, there are many other uses for `\AtBeginSection`.

```
353 \endinput
```

5 A sample thesis master file

Well that's it for the code. Here is an example of a typical master file for a thesis; let's call it `mythesis.tex`.

(Just an aside for the not fully L^AT_EX-literate: commands referred to as *environments* are ones that have an opening `\begin{...}` and a closing `\end{...}`. Sectioning commands, like `\chapter`, `\section`, etc. are *not* environments. If you are not clear on this please check one of the L^AT_EX manuals[7, 8].)

First we must specify the class and fontsize:

```
\documentclass[12pt]{uwathes}
```

(An option `honours` is also available, if you wish to use the `uwathes` class for an Honours Dissertation; or, if you prefer use the `uwadissert.tex` template, which uses the standard L^AT_EX `report` class, and is available via the `maths.uwa.edu.au TEX Local Guide`.)

Usually, the user will load the `uwamaths` package [4] but this is not essential. Suppose that `theorems` etc., `tables`, `figures` and `equations` should be numbered within the smallest current sectional unit then one should specify:

```
\usepackage[unsectioned]{uwamaths}
\renewcommand{\AtBeginSection}[1]{\numberallin{#1}}
```

Note that `\numberallin` is provided by the `uwamaths` package, *not* the `uwathes` class. If you are happy with having all `theorems` etc., `tables`, `figures` and `equations` numbered in the form **N.m.l** then the above two lines should be replaced by: `\usepackage{uwamaths}` (i.e. without declaring the `unsectioned` option or redefining `\AtBeginSection`). See the discussion in the previous section for other possibilities for `\AtBeginSection` and [4] for other options you might want from the `uwamaths` package.

The University of Western Australia specifies the interline spacing for a PhD thesis should be at least $1\frac{1}{2}$ -spacing but not more than double-spacing:

```
\oneandhalfspacing
```

If you intend having an **Index** and you are using `MakeIndex` to generate it then you need:

```
\makeindex
```

Similarly if you want a **Glossary** and/or a **List of Symbols** and you have appropriate `.ist` (index style) files so that you can use `MakeIndex` to generate the `.gls` and `.smb` files from the (L^AT_EX-generated) `.glo` and `.sym` files, respectively, then you need (one or both of):

```
\makeglossary
\makesymbols
```

Now the guff that will be set in the title page; `\date` is optional ... it defaults to today's date. Also, `\date{}` (i.e. giving `\date` a blank argument) gives just the current *month* and *year* (i.e. *no day*).

```
\title{My Thesis}
\author{A. U. Thor}
\date{September 1999}
```

The user may wish to over-ride the default `\dept`, `\institution` and `\degree` at this point; or alternatively over-ride the default `\thanks`, which for a PhD thesis by default sets the words *This thesis is presented for ...* in the title page. Now the start of the document followed by `\maketitle` to actually set the title page.

```
\begin{document}
\maketitle
```

Now the usual front matter stuff. Here we have specified that the `abstract` and `acknowledgements` environments are in files `abstract.tex` and `acknow.tex`, respectively. There is also a `dedication` environment entirely analogous to the `acknowledgements` environment. (If the user, should wish to include one there is also a `preface` environment.) The `theglossary` environment, if there is one, should be in file `mythesis.gls` since our thesis master file is called `mythesis.tex`. It may be printed via `\printglossary` rather than using an `\include` statement. A `thesymbols` environment for a **List of Symbols**, if there is one, should be in file `mythesis.smb` since our thesis master file is called `mythesis.tex`. As for the **Glossary**, it may be printed via `\printsymbols` rather than using an `\include` statement. It's good form to put the environments `abstract` etc. in separate files. We discuss these front matter environments a little further in the next section.

```
\include{abstract}
\tableofcontents
\listoftables
\listoffigures
\printsymbols
\printglossary
\include{acknow}
```

Now comes the body of the text, initiated by `\mainmatter`, which sets a fancy pagestyle and arabic numbering on a fresh page. Again, it is recommended that

each chapter is in a separate file. The `\appendix` macro does not generate any text but resets the `\chapter` counter to number A, B, ...

```
\mainmatter
\include{chap1}
\include{chap2}
\include{chap3}
\include{chap4}
\appendix
\include{appxA}
```

Let's suppose we are using BibTeX and our bibliography database file is `myrefs.bib` and we are using the `uwa` bibliography style. Then we would have:

```
\bibliographystyle{uwa}
\bibliography{myrefs}
```

If we intend to have an index we have:

```
\printindex
```

Finally, we have the closing out of the document:

```
\end{document}
```

6 The front matter environments

Now, we discuss what goes in the included files `abstract.tex`, `acknow.tex` and `mythesis.gls` (the front matter environments files specified in our sample master file above). Firstly, in the file `abstract.tex` one should have an `abstract` environment, e.g. the contents of `abstract.tex` should be something like

```
\begin{abstract}
TEXT
\end{abstract}
```

The file `acknow.tex` should contain an `acknowledgements` environment, something like

```
\begin{acknowledgements}
TEXT
\end{acknowledgements}
```

If you also have a `dedication` environment it also should be in its own file, `\included` like `acknow.tex` and contain

```
\begin{dedication}
TEXT
\end{dedication}
```

The file `mythesis.gls` should contain a `theglossary` environment, which is just like the standard L^AT_EX `description` environment, i.e. something like

```

\begin{theglossary}
  \item[LABEL] DESCRIPTION
  \item[LABEL] DESCRIPTION
  .
  .
\end{theglossary}

```

(Note: you can also call the glossary `glossary.tex`, but then you would need to change the `\printglossary` command in `mythesis.tex` to `\include{glossary}`. The reason for choosing to call the glossary `mythesis.gls` is to allow for the possibility of automatic generation of the glossary using L^AT_EX's `\glossary` command in conjunction with the program `MakeIndex`.) There is also `thesymbols` environment that is entirely analogous to the `theglossary` environment. Its default header is **List of Symbols**. See earlier, where the environment is defined, for a discussion of its usage.

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Numbers written in *italic* refer to the page where the corresponding entry is described, the ones underlined> to the code line of the definition, the rest to the code lines where the entry is used.

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Change History

| | | |
|---|---|---|
| v1.0 | | v1.0b |
| General: First release | 1 | General: Added \AtBeginSection and \numberin. Modified \chapter and \@startsection to call \AtBeginSection. |
| v1.0a | | Added \cleardoublepage to abstract to ensure that abstract, acknowledgements and dedication environments start on a fresh righthand page. |
| General: \MakeUppercase usages removed from marks issued by \@mkboth in \listoffigures, \listoftables, thebibliography and theindex. | 1 | v1.0c |
| Added \@mkboth commands to issue (heading) marks for abstract (and hence acknowledgements and dedication), thesymbols and theglossary. | 1 | General: No change to class. Only the file header containing phone number information altered. |
| Created a new environment dedication completely analogous to acknowledgements. .. | 1 | v1.1 |
| List of Symbols macros analogous to those for generating a Glossary were added. | 1 | General: Updated the default setting of the department on the titlepage. To facilitate user modification, \dept, \institution and \degree are now provided. An option honours has also been added (which should be regarded as experimental). We also provide options library and nolibrary. We now use fancyhdr in lieu of fancyheadings. A bug that caused the text not to be vertically centred has been fixed. |
| The \chaptermark and \sectionmark changed to include chapter and section numbers in the marks. | 1 | v1.1a |
| The definitions of \lhead and \rhead (the fancyheadings macros) changed to not include chapter and section numbers – now these are already in the marks. | 1 | General: Added a preface environment. |
| The shorthand \gloss now emphasises its argument in the text. A new shorthand \symb ensures the \symbolsentry written to the .sym file is in math-mode. | 1 | |
| Warning added about appropriate usage of \chapter*. | 1 | |