kuthesis.dtx*

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Abstract

Kuthesis.dtx is a style file for the Kettering University Thesis Format for L^AT_EX. It is designed to cover most needs that Kettering thesis students have.

Preface

Usage of other styles. You will find traces of other style files sucked in whole-sale by this file. This is not to offend the original owners of those files; I figure that a student adventurous enough to try this file out ought to have all the help they can get. The most flagrant use of this is in the endnote section. Due to the multitude of available files for to do it, I have not added APA-style citing.

Special note. This style does not attempt to provide APA-style citing. There are a number of packages out there, of which the most comprehensive is apacite (which has both a LATEX style and a BIBTEX style). However, you'll have to \renewcommand the keyword \bibname, because they define it to have lowercase and use addcontentsline to get around any provisions I may make.

Arthur's thanks. There are three people I wish to thank for help on creating this file. First, Professor Mark Wicks of Kettering University, who answered a good number of my headscratchers. Second, Professor James McDonald of Kettering University, who encouraged me to use IATEX to create my thesis. Finally, my fianceé, Stephanie Rybicki, who was kind enough to give me the kick I needed to get this file documented. It is still somewhat of a crawling horror, though.

Alison's thanks. I'd like to thank Mark Wicks for digging up Arthur's work over a decade after the fact, and Arthur for not thinking it creepy that I contacted him out of the blue regarding this project, and for permitting me to host it on Github and update it for the current thesis specifications.

^{*}This file has version v0.5 last revised 2015/04/15

1 Getting Started

1.1 Requirements

This style file requires the setspace, times, helvet, ifthen, and calc packages. With the possible exception of setspace, all of these should be in your TEX distribution.

1.2 Installation

- 1. Make sure the files are in your current working directory and run kuthesis.ins through T_FX.
- 2. Move the generated files to someplace you'd like them to be. I'm sure there's an official spot.
- 3. If your T_EX implementation uses a filename database, update it.

1.3 Usage

The use of this file is actually fairly simple, as it acts almost exactly like the report style. Just add the following to your file:

\documentclass[12pt]{kuthesis} % Specifies the document class

Of course, in order to completely make a file fit the Kettering Thesis manual, there is more to do than that. First off, in addition to \title{} and \author{}, you are to define other things. To start with, you must define your department with \department{Computer Engineering}. Then, define your employer with \employer{MAXIMUM WIDGETS}. Finally, define your graduation year with \gdate{2015}. This way, when you use \maketitle, not only will your title page be generated but your disclaimer page will be generated as well.

Next, enclose your preface in the preface environment with \begin{preface} and \end{preface}.

In order to produce the table of contents, list of illustrations, and list of tables, you'll need to do the following.

\singlespacing \tableofcontents\ \listofillustrations

Finally, when it is time to begin the body of your thesis, use \begincontent. Enter chapters as you would for a report. Note that footnotes are not permitted; use \endnote with a \theendnotes at the end of each chapter.

Creating a glossary will require you to \setcounter{secnumdepth}{-1} before the glossary and \setcounter{secnumdepth}{0} afterwards. Declare appendicies with \appendix before chapter names, but note that a single appendix will have to be done by hand.

1.4 Using apacite with kuthesis.cls

Just use the following code, and do citations as normal. Naturally, don't forget to use the apacite package in your preamble.

```
\begin{singlespace}
\bibliographystyle{apacite}
\bibliography{thesis}
\end{singlespace}
```

2 Source Code Examination and Discussion

This source code is based heavily on the report style source code. Therefore, I will focus more on commenting on changes and interesting properties.

```
1 \NeedsTeXFormat{LaTeX2e}[1995/12/01]
```

2 \ProvidesClass{kuthesis}[2000/05/29 Kettering University Thesis class definition]

We must double space almost everything and put it in 12 pt Times New Roman. In certain cases, Helvetica may be needed. Since we will still occasionally need to single space things, we simply use the setspace package.

```
3 \RequirePackage{setspace}
4 \RequirePackage{times}
5 \RequirePackage{helvet}
6 \RequirePackage{ifthen}
7 \RequirePackage{calc}
```

There are spots in this file where options remain that aren't useful. Paper sizes are one of these things. One of these days perhaps someone will rip it out, but I'm not too willing to risk yet another style change.

```
8 \newcommand\@ptsize{}
9 \newif\if@restonecol
10 \newif\if@titlepage
11 \@titlepagetrue
12 \newif\if@openright
13 \if@compatibility\else
14 \DeclareOption{a4paper}
     {\setlength\paperheight {297mm}%
15
      \setlength\paperwidth {210mm}}
16
17 \DeclareOption{a5paper}
     {\setlength\paperheight {210mm}%
18
      \setlength\paperwidth {148mm}}
19
20 \DeclareOption{b5paper}
     {\setlength\paperheight {250mm}%
21
      \setlength\paperwidth {176mm}}
23 \DeclareOption{letterpaper}
     {\setlength\paperheight {11in}%
24
      \setlength\paperwidth {8.5in}}
26 \DeclareOption{legalpaper}
```

```
{\setlength\paperheight {14in}%
27
      \setlength\paperwidth {8.5in}}
28
29 \DeclareOption{executivepaper}
     {\setlength\paperheight {10.5in}%
30
      \setlength\paperwidth {7.25in}}
31
32 \DeclareOption{landscape}
33
     {\setlength\@tempdima
                              {\paperheight}%
      \setlength\paperheight {\paperwidth}%
34
      \setlength\paperwidth {\@tempdima}}
35
36 \fi
37 \if@compatibility
    \renewcommand\@ptsize{0}
39 \else
40 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
41 \fi
42 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
43 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
44 \if@compatibility\else
45 \ensuremath{\lower.0ption{oneside}{\coloredgetalse \coloredgetalse}} \\
47 \DeclareOption{twoside}{\@twosidetrue \@mparswitchtrue}
48 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
49 \if@compatibility\else
50 \end{final} {\bf \{betlength \}} \\
52 \DeclareOption{titlepage}{\@titlepagetrue}
53 \if@compatibility\else
54 \DeclareOption{notitlepage}{\@titlepagefalse}
55 \fi
56 \if@compatibility
57 \else
58 \DeclareOption{openright}{\@openrighttrue}
59 \DeclareOption{openany}{\@openrightfalse}
61 \if@compatibility\else
62 \DeclareOption{onecolumn}{\@twocolumnfalse}
63 \fi
64 \DeclareOption{twocolumn}{\@twocolumntrue}
65 \DeclareOption{leqno}{\input{leqno.clo}}
66 \DeclareOption{fleqn}{\input{fleqn.clo}}
67 \DeclareOption{openbib}{%
68
    \AtEndOfPackage{%
     \verb|\renewcommand@openbib@code{%}|
69
        \advance\leftmargin\bibindent
70
71
        \itemindent -\bibindent
72
        \listparindent \itemindent
73
        \parsep \z@
74
     \renewcommand\newblock{\par}}%
75
76 }
```

The following options are what you get if you do not specify any options in the class definition. It is designed to produce a thesis the way the university wants to see it.

```
77 \ExecuteOptions{letterpaper,12pt,oneside,onecolumn,final,openany}
78 \ProcessOptions
79 \input{size1\@ptsize.clo}
To produce output with the desired line spacing, the argument of \spacing should
be multiplied by 5/6 = 0.8333, so that 1\frac{1}{2} spacing corresponds to \spacing{1.5}
and double spaced is \spacing{1.66}.
80 \def\normalspacing{1.25} % default line spacing
81 \setlength\lineskip{1\p0}
82 \setlength\normallineskip{1\p0}
83 \renewcommand\baselinestretch{}
84 \setlength\parskip{0\p0 \@plus \p0}
85 \@lowpenalty
                 51
86 \@medpenalty 151
87 \@highpenalty 301
88 \setcounter{topnumber}{2}
89 \renewcommand\topfraction{.7}
90 \setcounter{bottomnumber}{1}
91 \renewcommand\bottomfraction{.3}
92 \setcounter{totalnumber}{3}
93 \renewcommand\textfraction{.2}
94 \renewcommand\floatpagefraction{.5}
95 \setcounter{dbltopnumber}{2}
96 \renewcommand\dbltopfraction{.7}
97 \renewcommand\dblfloatpagefraction{.5}
98 \if@twoside
     \def\ps@headings{%
         \let\@oddfoot\@empty\let\@evenfoot\@empty
100
         101
         \def\@oddhead{{\slshape\rightmark}\hfil\thepage}%
102
         \let\@mkboth\markboth
103
       \def\chaptermark##1{%
104
105
         \markboth {\MakeUppercase{%
106
           \ifnum \c@secnumdepth >\m@ne
               \@chapapp\ \thechapter. \ %
107
           \fi
108
           ##1}}{}}%
109
       \def\sectionmark##1{%
110
         \markright {\MakeUppercase{%
111
112
           \ifnum \c@secnumdepth >\z@
             \thesection. \ %
113
114
           \fi
           ##1}}}
115
116 \else
     \def\ps@headings{%
117
118
       \let\@oddfoot\@empty
119
       \def\@oddhead{{\slshape\rightmark}\hfil\thepage}%
```

```
\let\@mkboth\markboth
120
       \def\chaptermark##1{%
121
         \markright {\MakeUppercase{%
122
           \ifnum \c@secnumdepth >\m@ne
123
                \@chapapp\ \thechapter. \ %
124
125
           \fi
126
           ##1}}}
127 \fi
128 \def\ps@myheadings{%
       \let\@oddfoot\@empty\let\@evenfoot\@empty
129
       \def\@evenhead{\thepage\hfil\slshape\leftmark}%
130
131
       \def\@oddhead{{\slshape\rightmark}\hfil\thepage}%
       \let\@mkboth\@gobbletwo
132
       \let\chaptermark\@gobble
133
       \let\sectionmark\@gobble
134
135
Items required for the title page.
136 \newcommand{\employer}[1]{\ifx\empty#1\else\gdef\@employer{#1}\fi}
137 \newcommand{\department}[1]{\ifx\empty#1\else\gdef\@department{#1}\fi}
138 \renewcommand{\author}[1]{\ifx\empty#1\else\gdef\@author{#1}\fi}
139 \renewcommand{\title}[1]{\ifx\empty#1\else\gdef\@title{#1}\fi}
140 \newcommand{\gdate}[1]{\ifx\empty#1\else\gdef\@gdate{#1}\fi}
142 \global\def\@employer{\mbox{}}
143 \global\def\@degree{\mbox{}}
144 \global\def\@author{\mbox{}}
145 \global\def\@title{\mbox{}}
146 \global\def\@gdate{\number\date} % Default date is current date
 Here \maketitle is changed to follow the KU guidelines. It includes its own
 disclaimer page. There is a separate \maketitle command for each type of thesis
 (co-op, research, professional practice, and e-ship). Yes, I know this is bloody
 awful. I'm going to fix it later.
147 \newcommand{\maketitle}
148 {
149 \begin{titlepage}
      \setcounter{page}{1}
150
 Set the line spacing to 1 for the title page.
      \begin{spacing}{1}
151
      \begin{center}
152
         \mbox{}
153
154
         \vfill
         \textbf{\MakeUppercase{\@title}}\\
155
156
         \vspace{2em}
         A Thesis written for \\
157
         \vspace{1em}
158
         \textbf{{\@employer}}\\
159
160
         \vspace{1em}
161
         and submitted to \\
```

```
162
         \vspace{1em}
         \textbf{KETTERING UNIVERSITY} \\
163
         \vspace{3em}
164
         in partial fulfillment \\
165
         of the requirements for the \
166
167
         degree of \\
168
         \vspace{1em}
         \textbf{BACHELOR OF SCIENCE IN \MakeUppercase{\@department}} \\
169
170
         \vspace{3em}
         by \\
171
         \vspace{1em}
172
         \textbf{\MakeUppercase{{\@author}}}\\
173
174
         \vspace{1em}
         {\@gdate} \\
175
         \vspace{1in}
176
      \end{center}
177
178
      \begin{flushright}
179
180
181
      \begin{tabular}{0{}1}
182
      \\ \hline
183
      Student
                 11
184
      //
185
      \\ \hline
186
      Employer Thesis Advisor
187
      //
188
      \\ \hline
189
      Faculty Thesis Advisor \\
190
      \end{tabular}
191
192
193
194
      \end{flushright}
      \end{spacing}
195
196
      \end{titlepage}
197
      \setcounter{page}{2}
      \setcounter{secnumdepth}{-1}
198
199
200
      \chapter{DISCLAIMER}
201
      \begin{doublespace}
202
      \par
203
       This thesis is being submitted as partial fulfillment of the
       graduation requirements of Kettering University needed
204
       to obtain a Bachelor of Science in {\@department} Degree.
205
206
       \par
207
       The conclusions and opinions expressed in this thesis are those
208
       of the student author and do not necessarily represent the position
       of Kettering University or anyone else affiliated with this
209
210
       culminating undergraduate experience.
      \end{doublespace}
211
```

```
212 }%\maketitle
Coop thesis.
213 \newcommand{\maketitlecoop}
214 {
215 \begin{titlepage}
      \setcounter{page}{1}
216
      \begin{spacing}{1}
217
      \begin{center}
218
219
         \mbox{}
220
         \vfill
         \textbf{\MakeUppercase{\@title}}\\
221
222
         \vspace{2em}
         A Co-op Thesis written for \\
223
         \vspace{1em}
224
         \textbf{{\@employer}}\\
225
226
         \vspace{1em}
227
         and submitted to \
228
         \vspace{1em}
         \textbf{KETTERING UNIVERSITY} \\
229
         \vspace{3em}
230
         in partial fulfillment \\
231
         of the requirements for the \
232
233
         degree of \\
         \vspace{1em}
234
         \textbf{BACHELOR OF SCIENCE IN \MakeUppercase{\@department}} \\
235
         \vspace{3em}
236
         by \\
237
         \vspace{1em}
238
239
         \label{thm:linear_case} $$ \operatorname{\mathbb{M}}(\mathcal{L}^{2}) = \mathbb{C}^{2}. $$
240
         \vspace{1em}
         {\@gdate} \\
241
         \vspace{1in}
242
      \end{center}
243
244
      \begin{flushright}
245
246
247
      \begin{tabular}{@{}1}
248
      \\ \hline
249
      Student
                  //
250
251
      //
252
      Employer Thesis Advisor \\
253
254
      //
      \\ \hline
255
      Faculty Thesis Advisor \\
256
      \end{tabular}
257
258
259
```

```
\end{flushright}
260
261
      \end{spacing}
      \end{titlepage}
262
      \setcounter{page}{2}
263
      \setcounter{secnumdepth}{-1}
264
^{265}
266
      \chapter{DISCLAIMER}
      \begin{doublespace}
267
268
       \par
       This thesis is being submitted as partial fulfillment of the
269
       graduation requirements of Kettering University needed
270
       to obtain a Bachelor of Science in {\@department} Degree.
271
272
        \par
       The conclusions and opinions expressed in this thesis are those
273
        of the student author and do not necessarily represent the position
274
        of Kettering University or anyone else affiliated with this
275
       culminating undergraduate experience.
276
       \end{doublespace}
277
278 }%\maketitlecoop
 Research thesis.
279 \newcommand{\maketitleresearch}
280 {
281 \begin{titlepage}
       \setcounter{page}{1}
282
283
       \begin{spacing}{1}
      \begin{center}
284
          \mbox{}
285
          \vfill
286
287
          \textbf{\MakeUppercase{\@title}}\\
288
          \vspace{2em}
          A Research Thesis written for \\
289
         \vspace{1em}
290
          \textbf{KETTERING UNIVERSITY}\\
291
          \vspace{1em}
292
293
         and submitted to \\
          \vspace{1em}
294
          \textbf{KETTERING UNIVERSITY} \\
295
          \vspace{3em}
296
          in partial fulfillment \\
297
         of the requirements for the \
298
          degree of \\
299
300
          \vspace{1em}
301
          \textbf{BACHELOR OF SCIENCE IN \MakeUppercase{\@department}} \\
302
          \vspace{3em}
          by \\
303
          \vspace{1em}
304
          \label{thm:linear_case} $$ \operatorname{\mathbb{M}}(\mathcal{L}^{2}) = \mathbb{C}^{2}. $$
305
306
          \vspace{1em}
          {\@gdate} \\
307
```

```
308
         \vspace{1in}
      \end{center}
309
310
      \begin{flushright}
311
312
313
314
      \begin{tabular}{0{}1}
      \\ \hline
315
      Student
316
                 11
317
      11
      \\ \hline
318
      Faculty Thesis Advisor
319
320
      \\ \hline
321
      Committee Member \\
322
      \end{tabular}
323
324
325
326
      \end{flushright}
327
      \end{spacing}
      \end{titlepage}
328
      \setcounter{page}{2}
329
      \setcounter{secnumdepth}{-1}
330
331
      \chapter{DISCLAIMER}
332
333
      \begin{doublespace}
      \par
334
       This thesis is being submitted as partial fulfillment of the
335
       graduation requirements of Kettering University needed
336
       to obtain a Bachelor of Science in {\@department} Degree.
337
338
339
       The conclusions and opinions expressed in this thesis are those
340
       of the student author and do not necessarily represent the position
       of Kettering University or anyone else affiliated with this
341
342
       culminating undergraduate experience.
      \end{doublespace}
343
344 }%\maketitleresearch
Professional Practice thesis.
346 {
347 \begin{titlepage}
348
      \setcounter{page}{1}
349
      \begin{spacing}{1}
      \begin{center}
350
         \mbox{}
351
         \vfill
352
         \verb|\textbf{\MakeUppercase{\Qtitle}}|\\
353
         \vspace{2em}
354
         A Professional Practice Thesis written for \\
355
```

```
356
         \vspace{1em}
         \textbf{{\@employer}}\\
357
         \vspace{1em}
358
         and submitted to \
359
         \vspace{1em}
360
         \textbf{KETTERING UNIVERSITY} \\
361
362
         \vspace{3em}
         in partial fulfillment \\
363
         of the requirements for the \
364
         degree of \\
365
         \vspace{1em}
366
         \textbf{BACHELOR OF SCIENCE IN \MakeUppercase{\@department}} \\
367
368
         \vspace{3em}
         by \\
369
         \vspace{1em}
370
         \textbf{\MakeUppercase{{\@author}}}\\
371
         \vspace{1em}
372
         {\@gdate} \\
373
374
         \vspace{1in}
375
      \end{center}
376
      \begin{flushright}
377
378
379
      \begin{tabular}{@{}1}
380
      \\ \hline
381
382
      Student
                 //
      11
383
      \\ \hline
384
      Company Liaison \\
385
      //
386
387
      \\ \hline
      Faculty Thesis Advisor \\
388
      \end{tabular}
389
390
391
      \end{flushright}
392
      \end{spacing}
393
394
      \end{titlepage}
395
      \setcounter{page}{2}
396
      \setcounter{secnumdepth}{-1}
397
      \chapter{DISCLAIMER}
398
      \begin{doublespace}
399
400
      \par
401
       This thesis is being submitted as partial fulfillment of the
402
       graduation requirements of Kettering University needed
       to obtain a Bachelor of Science in {\@department} Degree.
403
404
       \par
       The conclusions and opinions expressed in this thesis are those
405
```

```
406
       of the student author and do not necessarily represent the position
       of Kettering University or anyone else affiliated with this
407
       culminating undergraduate experience.
408
      \end{doublespace}
409
410}%\maketitlepp
E-ship thesis.
411 \newcommand{\maketitleeship}
412 {
413 \begin{titlepage}
      \setcounter{page}{1}
414
      \begin{spacing}{1}
415
      \begin{center}
416
         \mbox{}
417
         \vfill
418
         \textbf{\MakeUppercase{\@title}}\\
419
420
         \vspace{2em}
421
         An E-Ship Thesis written by \\
422
         \vspace{1em}
         \textbf{\MakeUppercase{\@author}}\\
423
424
         \vspace{1em}
         and submitted to \
425
426
         \vspace{1em}
         \textbf{KETTERING UNIVERSITY} \\
427
         \vspace{3em}
428
         in partial fulfillment \\
429
         of the requirements for the \
430
         degree of \\
431
432
         \vspace{1em}
433
         \textbf{BACHELOR OF SCIENCE IN \MakeUppercase{\@department}} \\
434
         \vspace{4em}
435
         {\@gdate} \\
         \vspace{1in}
436
      \end{center}
437
438
      \begin{flushright}
439
440
441
      \begin{tabular}{@{}1}
442
      \\ \hline
443
      Student
                 //
444
445
      //
446
      Faculty Thesis Advisor
447
448
      //
      \\ \hline
449
      Committee Member \\
450
      \end{tabular}
451
452
453
```

```
\end{flushright}
454
      \end{spacing}
455
      \end{titlepage}
456
      \setcounter{page}{2}
457
      \setcounter{secnumdepth}{-1}
458
459
460
      \chapter{DISCLAIMER}
      \begin{doublespace}
461
      \par
462
       This thesis is being submitted as partial fulfillment of the
463
       graduation requirements of Kettering University needed
464
       to obtain a Bachelor of Science in {\@department} Degree.
465
466
       The conclusions and opinions expressed in this thesis are those
467
       of the student author and do not necessarily represent the position
468
       of Kettering University or anyone else affiliated with this
469
       culminating undergraduate experience.
470
      \end{doublespace}
471
472 }%\maketitleeship
473
474 \newcommand*\chaptermark[1]{}
Chapters are the only numbered objects, and they use Roman numerals. Roman
numerals are set below.
475 \setcounter{secnumdepth}{0}
476 \setcounter{secnumdepth}{0}
477 \newcounter {part}
478 \newcounter {chapter}
479 \newcounter {section}[chapter]
480 \newcounter {subsection}[section]
481 \newcounter {subsubsection}[subsection]
482 \newcounter {paragraph}[subsubsection]
483 \newcounter {subparagraph}[paragraph]
484 \renewcommand \thepart {\@Roman\c@part}
485 \renewcommand \thechapter {\@Roman\c@chapter}
486 \renewcommand \thesection {\thechapter.\@arabic\c@section}
487 \renewcommand\thesubsection
                                  {\thesection.\@arabic\c@subsection}
488 \renewcommand\thesubsubsection{\thesubsection .\@arabic\c@subsubsection}
489 \renewcommand\theparagraph
                                  {\thesubsubsection.\@arabic\c@paragraph}
490 \renewcommand\thesubparagraph {\theparagraph.\@arabic\c@subparagraph}
491 \newcommand\@chapapp{\chaptername}
492 \newcommand\part{%
     \if@openright
493
       \cleardoublepage
494
     \else
495
       \clearpage
496
497
498
     \thispagestyle{plain}%
     \if@twocolumn
499
       \onecolumn
500
```

```
\@tempswatrue
501
502
     \else
       \@tempswafalse
503
     \fi
504
     \left\langle \right\rangle 
505
506
     \secdef\@part\@spart}
507
508 \def\@part[#1]#2{%
       \ifnum \c@secnumdepth >-2\relax
509
         \refstepcounter{part}%
510
         511
512
       \else
         \addcontentsline{toc}{part}{#1}%
513
514
       \markboth{}{}%
515
       {\centering
516
       \interlinepenalty \@M
517
        \normalfont
518
519
        \ifnum \c@secnumdepth >-2\relax
520
          \huge\bfseries \partname~\thepart
521
          \par
          \vskip 20\p@
522
        \fi
523
        \Huge \bfseries #2\par}%
524
       \@endpart}
525
526 \def\@spart#1{%
       {\centering
527
        \interlinepenalty \@M
528
        \normalfont
529
        \Huge \bfseries #1\par}%
530
       \@endpart}
531
532 \def\@endpart{\vfil\newpage
533
                 \if@twoside
                  \null
534
                  \thispagestyle{empty}%
535
                  \newpage
536
                \fi
537
                 \if@tempswa
538
539
                  \twocolumn
                 \fi}
540
541 \newcommand\chapter{\if@openright\cleardoublepage\else\clearpage\fi
                      \thispagestyle{plain}%
542
                      \global\@topnum\z@
543
                      \@afterindentfalse
544
545
                      \secdef\@chapter\@schapter}
We put a period after the chapter number in the table of contents. (e.g. I.
INTRODUCTION)
547
                           \refstepcounter{chapter}%
```

```
\typeout{\@chapapp\space\thechapter.}%
548
                             \addcontentsline{toc}{chapter}%
549
                                       \label{lem:line-line-line} $$ \operatorname{\mathbb{Q}.}\mathbb{41}}%
550
                        \else
551
                          \addcontentsline{toc}{chapter}{\MakeUppercase{#1}}%
552
553
                        \fi
554
                        \chaptermark{#1}%
                        \if@twocolumn
555
                          \@topnewpage[\@makechapterhead{#2}]%
556
                        \else
557
                          \@makechapterhead{#2}%
558
559
                          \@afterheading
560
We do simplistic Chapter Headers. Note that these fix the table of contents as
561 \def\@makechapterhead#1{%
     \vspace*{1in}%
562
     {\parindent \z@ \centering \normalfont
563
       \ifnum \c@secnumdepth >\m@ne
564
           \bfseries \thechapter.\enspace
565
566
       \bfseries\MakeUppercase{#1}\par\nobreak
567
       \wdots
568
    }}
569
570 \def\@makeschapterhead#1{%
     \vspace*{1in}%
     {\parindent \z@ \centering
572
       \normalfont
573
       \interlinepenalty\@M
574
       \bfseries\MakeUppercase{#1}\par\nobreak
575
       \ \vskip 40\p@
576
578 \def\@schapter#1{\if@twocolumn
579
                       \@topnewpage[\@makeschapterhead{#1}]%
580
                     \else
                       \@makeschapterhead{#1}%
581
                       \@afterheading
582
                     fi
583
The format requires underlined section headers.
    Note: Even though the thesis formatting permits you to use italics instead of
underlining most places, this is one place it does not.
584 \mbox{ }\mbox{\command\section}{0}$
                                         {3.5ex \@plus 1ex \@minus .2ex}%
585
586
                                         {2.3ex \@plus.2ex}%
587
                                         {\raggedright\normalsize\bfseries\underline}}%
588 \mbox{\command\subsection}{2}{0mm}\%
                                          {3.25ex\pointsite 1ex \pointsite 2ex}%
589
```

590

{1.5ex \@plus .2ex}%

```
{\normalfont\normalsize\bfseries\underline}}%
591
{3.25ex\plus 1ex \plus .2ex}%
593
                                                                                    {1.5ex \mathbb{Q}lus .2ex}%
594
                                                                                    {\normalfont\normalsize\bfseries\underline}}%
595
596 \newcommand\paragraph{\Qstartsection{paragraph}{4}{\zQ}%
597
                                                                                  {3.25ex \@plus1ex \@minus.2ex}%
598
                                                                                  {-1em}%
                                                                                  {\normalfont\normalsize\bfseries}}
599
600 \newcommand \subparagraph{\c \subparagraph}{5}{\c \subparagraph}{\c \subparagr
                                                                                        601
602
                                                                                        {-1em}%
                                                                                      {\normalfont\normalsize\bfseries}}
603
604 \if@twocolumn
          \setlength\leftmargini {2em}
605
606 \ensuremath{\setminus} else
          \setlength\leftmargini {2.5em}
607
608 \fi
609 \leftmargin \leftmargini
610 \setlength\leftmarginii {2.2em}
611 \setlength\leftmarginiii {1.87em}
612 \setlength\leftmarginiv {1.7em}
613 \if@twocolumn
          \setlength\leftmarginv {.5em}
614
          \setlength\leftmarginvi {.5em}
615
616 \else
          \setlength\leftmarginv {1em}
617
          \setlength\leftmarginvi {1em}
618
619 \fi
620 \setlength \labelsep {.5em}
621 \setlength \labelwidth{\leftmargini}
622 \addtolength\labelwidth{-\labelsep}
623 \@beginparpenalty -\@lowpenalty
624 \@endparpenalty
                                            -\@lowpenalty
625 \@itempenalty
                                            -\@lowpenalty
626 \renewcommand\theenumi{\@arabic\c@enumi}
627 \renewcommand\theenumii{\@alph\c@enumii}
628 \renewcommand\theenumiii{\@roman\c@enumiii}
629 \renewcommand\theenumiv{\@Alph\c@enumiv}
630 \newcommand\labelenumi{\theenumi.}
631 \newcommand\labelenumii{(\theenumii)}
632 \newcommand\labelenumiii{\theenumiii.}
633 \newcommand\labelenumiv{\theenumiv.}
634 \renewcommand\p@enumii{\theenumi}
635 \renewcommand\p@enumiii{\theenumi(\theenumii)}
636 \renewcommand\p@enumiv{\p@enumiii\theenumiii}
637 \newcommand\labelitemi{\textbullet}
638 \newcommand\labelitemii{\normalfont\bfseries \textendash}
639 \newcommand\labelitemiii{\textasteriskcentered}
640 \newcommand\labelitemiv{\textperiodcentered}
```

```
641 \newenvironment{description}
642
                   {\singlespacing\begin{list}{}{%
                    \label{label} $$ \operatorname{\mathbb{L}} {\mathbb H}^1: \
643
                    \setlength{\labelwidth}{1.5 in}%
644
                    \setlength{\leftmargin}{\labelwidth+\labelsep}}}
645
646
                   {\end{list}\doublespacing}
647
   \newcommand*\descriptionlabel[1]{\hspace\labelsep
                                      \normalfont #1:\hfil}
648
649 \newenvironment{preface}
650 {
651 \setcounter{secnumdepth}{-1}
652 \chapter{\prefacename}\begin{doublespacing}
653 }
654 {\end{doublespacing}\setcounter{secnumdepth}{0}}
655 \newenvironment{verse}
                   {\let\\\@centercr
656
                    \list{}{\itemsep
                                            \z@
657
                             \itemindent
                                           -1.5em\%
658
659
                             \listparindent\itemindent
660
                             \rightmargin \leftmargin
                             \advance\leftmargin 1.5em}%
661
                    \item\relax}
662
                   {\endlist}
663
664 \newenvironment{quotation}
                   {\list{}{\listparindent 1.5em%
665
666
                             \itemindent
                                             \listparindent
                             \rightmargin
                                             \leftmargin
667
                                             \z@ \@plus\p@}%
668
                             \parsep
                    \item\relax}
669
                   {\endlist}
670
671 \newenvironment{quote}
672
                   {\list{}{\rightmargin\leftmargin}%
673
                    \item\relax}
                   {\endlist}
674
675 \if@compatibility
676 \newenvironment{titlepage}
       {%
677
         \if@twocolumn
678
679
           \@restonecoltrue\onecolumn
680
681
            \@restonecolfalse\newpage
682
         \fi
         \thispagestyle{empty}%
683
         \setcounter{page}\z@
684
685
       }%
686
       {\if@restonecol\twocolumn \else \newpage \fi
687
       }
688 \else
689 \newenvironment{titlepage}
       {%
690
```

```
\if@twocolumn
691
692
            \@restonecoltrue\onecolumn
          \else
693
            \@restonecolfalse\newpage
694
695
696
          \thispagestyle{empty}%
697
          \setcounter{page}\@ne
698
       {\if@restonecol\twocolumn \else \newpage \fi
699
         \if@twoside\else
700
            \setcounter{page}\@ne
701
702
         \fi
       }
703
704\fi
```

The appendix command has many tasks. Note that right now, if you have only one appendix, you're on your own. A lot of this was ripped from Peter Wilson's appendix class. The only reason I ripped it was because his system provides no facility for telling it whether chapter or section starts an appendix for a non-standard class. Since this needs to be fairly easy for fellow students (E.g. no editing other packages if I can help it), I rewrote and inserted it here.

```
705 \newcommand\appendix{\par
706
     \thispagestyle{plain}%
     \if@twocolumn\onecolumn\@tempswatrue\else\@tempswafalse\fi
707
     \markboth{}{}%
708
     {\setcounter{secnumdepth}{-1}
709
     \chapter{\appendixtocname}
710
     \setcounter{secnumdepth}{0}}%
711
     \vfil\newpage
712
     \if@twoside
713
        \if@openright
714
          \null
715
716
          \thispagestyle{empty}%
717
          \newpage
       \fi
718
719
     \fi
720
     \if@tempswa
       \twocolumn
721
722
723
     \setcounter{section}{0}
724
     \setcounter{chapter}{0}
725
     \renewcommand\@chapapp{\appendixname}
726
     \renewcommand\thechapter{\@Alph\c@chapter}
727
     \let\oldacl@pp=\addcontentsline
728
     \def\addcontentsline##1##2##3{%
729
       \left\{ \left( -\frac{\pi}{\pi} \right) \right\} 
730
          \ifthenelse{\equal{##2}{chapter}}{%
731
732
            \addtocontents{##1}{\protect\contentsline{##2}%
733
                                 {\appendixname\space ##3}{\thepage}}}%
```

```
734 {\oldacl@pp{##1}{##2}{##3}}}%
735 {\oldacl@pp{##1}{##2}{##3}}}
```

Note: Still in \appendix.

Note we have that darned colon in for appendicies in the TOC. Also note the ugly kludge being used to remove vertical spacing between appendix names.

```
736 \def\@chapter[##1]##2{\ifnum \c@secnumdepth >\m@ne
737
                              \refstepcounter{chapter}%
                              \typeout{\@chapapp\space\thechapter}%
738
                              \addcontentsline{toc}{section}%
739
                                        {\@chapapp\space\thechapter: ##1}%
740
741
                        \else
                           \addcontentsline{toc}{chapter}{##1}%
742
                        \fi
743
                        \chaptermark{##1}%
744
                           \if@twocolumn
745
                           \@topnewpage[\@makechapterhead{##2}]%
746
                        \else
747
                           \@makechapterhead{##2}%
748
                           \@afterheading
749
750
```

Now things are redefined a special page just for the chapter heading.

```
751 \def\@makechapterhead##1{%
     \vspace*{1in}%
752
     {\parindent \z@ \centering \normalfont
753
       \ifnum \c@secnumdepth >\m@ne
754
           \bfseries \@chapapp\ \thechapter\@\par
755
       \fi
756
       \vskip 40\p@
757
       \bfseries \MakeUppercase##1\par\nobreak
       \clearpage
759
760
     }}
761 }
762 \setlength\arraycolsep{5\p0}
763 \setlength\tabcolsep{6\p0}
764 \setlength\arrayrulewidth{.4\p0}
765 \setlength\doublerulesep{2\p0}
766 \setlength\tabbingsep{\labelsep}
767 \skip\@mpfootins = \skip\footins
768 \setlength\fboxsep{3\p0}
769 \setlength\fboxrule{.4\p0}
770 \@addtoreset {equation}{chapter}
771 \renewcommand\theequation
     {\ifnum \c@chapter>\z@ \thechapter.\fi \@arabic\c@equation}
```

Here we reconfigure lists of figures and tables to appear in table of contents. Also, parts of report.cls were removed to reconfigure figure counter to number for the entire document rather than per chapter.

```
773 \newcounter{figure}
774 \def\fps@figure{tbp}
```

```
775 \def\ftype@figure{1}
776 \def\ext@figure{lof}
777 \def\fnum@figure{\underline{\figurename~\thefigure.}}
778 \newenvironment{figure}
                                        {\@float{figure}}
779
780
                                        {\end@float}
781 \newenvironment{figure*}
                                        {\@dblfloat{figure}}
782
                                        {\end@dblfloat}
783
  Reconfigured table counter to number for the entire document, not per chapter.
  (Bits of report.cls removed)
784 \newcounter{table}
785 \def\fps@table{tbp}
786 \def\ftype@table{2}
787 \def\ext@table{lot}
788 \def\fnum@table{\underline{\tablename~\thetable.}}
789 \newenvironment{table}
                                        {\@float{table}}
790
                                        {\end@float}
792 \newenvironment{table*}
793
                                        {\@dblfloat{table}}
794
                                        {\end@dblfloat}
795 \newlength\abovecaptionskip
796 \newlength\belowcaptionskip
797 \setlength\abovecaptionskip{10\p0}
798 \setlength\belowcaptionskip{0\p0}
799 \long\def\@makecaption#1#2{%
           \vskip\abovecaptionskip
800
           \sbox\@tempboxa{#1 #2}%
801
           \ifdim \wd\@tempboxa >\hsize
802
                #1 #2\par
803
804
                \global \@minipagefalse
805
806
                \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
807
           \fi
           \vskip\belowcaptionskip}
809 \DeclareOldFontCommand{\rm}{\normalfont\rmfamily}{\mathrm}
810 \label{lem:sfamily} $$10 \end{sf} {\operatorname{long}(\hathsf)} $$
811 \DeclareOldFontCommand{\tt}{\normalfont\ttfamily}{\mathtt}
812 \DeclareOldFontCommand{\bf}{\normalfont\bfseries}{\mathbf}
813 \DeclareOldFontCommand{\it}{\normalfont\itshape}{\mathit}
815 \end{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\
816 \DeclareRobustCommand*\cal{\Qfontswitch\relax\mathcal}
817 \DeclareRobustCommand*\mit{\Ofontswitch\relax\mathnormal}
818 \newcommand\@pnumwidth{1.55em}
819 \newcommand\@tocrmarg{2.55em}
820 \newcommand\@dotsep{4.5}
821 \setcounter{tocdepth}{2}
```

```
822 \newcommand\tableofcontents{%
                          \if@twocolumn
823
                                 \@restonecoltrue\onecolumn
824
                          \else
825
                                 \@restonecolfalse
826
827
                          \fi
828
                          \chapter*{\contentsname
829
                                         \@mkboth{%
                                                   \MakeUppercase\contentsname}{\MakeUppercase\contentsname}}%
830
                          \@starttoc{toc}%
831
                          \if@restonecol\twocolumn\fi
832
                         }
833
834 \newcommand*\l@part[2]{%
                  \ifnum \c@tocdepth >-2\relax
835
                          \addpenalty{-\@highpenalty}%
836
                          \addvspace{2.25em \@plus\p@}%
837
                          \begingroup
838
                                 \parindent \z@ \rightskip \@pnumwidth
839
840
                                 \parfillskip -\@pnumwidth
841
                                 {\leavevmode
                                     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
842
                                     \nobreak
843
                                            \global\@nobreaktrue
844
                                            \everypar{\global\@nobreakfalse\everypar{}}%
845
846
                          \endgroup
                  \fi}
847
  Here we setup table of contents.
848 \newcommand*\l@chapter{\vspace{1em}\@dottedtocline{0}{0em}{4em}}
849 \newcommand*\l@section{\@dottedtocline{1}{5.5em}{2.3em}}
850 \end{0.0} \label{localine} $850 \end{0.0} $$ \end{0
851 \mbox{ } \mbox{0} \mbox{
852 \newcommand*\l@paragraph{\@dottedtocline{4}{14em}{5em}}
853 \mbox{ } \mbox{newcommand*}\mbox{0subparagraph{\dottedtocline{5}{16em}{6em}}}
  List of illustrations modified to appear in the table of contents.
854 \newcommand\listofillustrations{%
855
                          \setcounter{secnumdepth}{-1}
                          \chapter{\listillusname%
856
                                 \@mkboth{\MakeUppercase\listillusname}%
857
                                                              {\MakeUppercase\listillusname}}%
858
859 \begin{doublespace}%
860 \begin{raggedright}%
861 \textbf{\underline{Figures}\hfill\underline{Page}}%
862 \end{raggedright}%
863 \@starttoc{lof}%
864 \vspace{2em}
865 \begin{raggedright}%
866 \textbf{\underline{Tables}\hfill\underline{Page}}%
867 \end{raggedright}%
868 \@starttoc{lot}%
```

```
869 \end{doublespace}
870 \setcounter{secnumdepth}{0}
871 }
872 \newcommand*\l@figure{\@dottedtocline{1}\{0em\}\{2.3em\}\}
873 \let\l@table\l@figure
874 \newdimen\bibindent
875 \setlength\bibindent{1.5em}
876 \newenvironment{thebibliography}[1]
        {\chapter*{\bibname
877
           878
         \list{\@biblabel{\@arabic\c@enumiv}}%
879
880
              {\settowidth\labelwidth{\@biblabel{#1}}%
               \leftmargin\labelwidth
               \advance\leftmargin\labelsep
882
               \@openbib@code
883
               \usecounter{enumiv}%
884
               \let\p@enumiv\@empty
885
               \renewcommand\theenumiv{\@arabic\c@enumiv}}%
886
887
         \sloppy
888
         \clubpenalty4000
         \@clubpenalty \clubpenalty
889
         \widowpenalty4000%
890
         \sfcode'\.\@m}
891
        {\def\@noitemerr
892
          {\@latex@warning{Empty 'thebibliography' environment}}%
893
         \endlist}
894
895 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
896 \let\@openbib@code\@empty
897 \newenvironment{theindex}
                  {\if@twocolumn
898
                     \@restonecolfalse
899
900
                   \else
901
                     \@restonecoltrue
                   \fi
902
                   \columnseprule \z@
903
                   \columnsep 35\p@
904
                   \twocolumn[\@makeschapterhead{\indexname}]%
905
                   \@mkboth{\MakeUppercase\indexname}%
906
                           {\MakeUppercase\indexname}%
907
                   \thispagestyle{plain}\parindent\z0
908
909
                   \parskip\z@ \@plus .3\p@\relax
                   \let\item\@idxitem}
910
                  {\if@restonecol\onecolumn\else\clearpage\fi}
911
912 \newcommand\@idxitem{\par\hangindent 40\p0}
913 \newcommand\subitem{\@idxitem \hspace*\{20\p0\}}
914 \newcommand\subsubitem{\@idxitem \hspace*{30\p@}}
915 \newcommand\indexspace{\par \vskip 10\p@ \@plus5\p@ \@minus3\p@\relax}
916 \renewcommand\footnoterule{%
917
     \mbox{kern-3}p@
     \hrule\@width.4\columnwidth
```

```
\mbox{kern2.6}p0
920 \@addtoreset{footnote}{chapter}
921 \newcommand\@makefntext[1]{%
       \parindent 1em%
922
       \noindent
923
924
       \hb@xt@1.8em{\hss\@makefnmark}#1}
 Kettering requires that these be all caps. While we do have automatic uppercasing
 in spots, it's best to cover all the bases.
925 \newcommand\contentsname{TABLE OF CONTENTS}
926 \newcommand\listillusname{LIST OF ILLUSTRATIONS}
927 \verb| newcommand bibname{REFERENCES}|
                                                 % APA format!
928 \newcommand\indexname{INDEX}
929 \newcommand\figurename{Figure}
930 \newcommand\tablename{Table}
931 \newcommand\partname{PART}
932 \newcommand\chaptername{Chapter}
933 \newcommand\appendixname{APPENDIX}
934 \newcommand\appendixtocname{APPENDICES}
935 \newcommand\prefacename{PREFACE}
936 \def\today{\ifcase\month\or
937
     January\or February\or March\or April\or May\or June\or
     July\or August\or September\or October\or November\or December\fi
938
     \space\number\day, \number\year}
940 \setlength\columnsep{10\p0}
941 \setlength\columnseprule{0\p0}
942 \pagestyle{plain}
The thesis begins with Roman page numerals, and continues with Arabic. Some
 sections in the front are double-spaced.
943 \pagenumbering{roman}
944 \newcommand\begincontent{
945 \clearpage
946 \pagenumbering{arabic}
947 \doublespacing
948 }
Margin Setup
949 \setlength{\oddsidemargin}{.5 in}
950 \setlength{\footskip}{.5 in}
951 \setlength{\textheight}{9 in}
952 \setlength{\textwidth}{6 in}
953 \setlength{\topmargin}{Opt}
954 \setlength{\headheight}{0pt}
955 \setlength{\headsep}{0pt}
956 \setlength{\voffset}{0pt}
957 \setlength{\hoffset}{Opt}
958 \setlength{\textheight}{9in}
959
960
961 \if@twoside
```

```
962 \else
963 \raggedbottom
964 \fi
965 \if@twocolumn
966 \twocolumn
967 \sloppy
968 \flushbottom
969 \else
970 \onecolumn
971 \fi
```

Rather than stomp on the documentation, I'll simply indicate that it's right below. Note that I have altered the file somewhat. If I was less lazy, I'd pull out the unneccesary bits.

```
972 %
973 % Save file as: ENDNOTES.STY
974 % modified by --bg (B.Gaulle) 09/14/94 for:
975 %
                  1) replace (why a 8bit char here?) by ^ as a default.
976 %
                  2) force \catcode of > to be 12 (implied by \@doanenot).
977 %
             by --bg again 03/22/95 for:
978 %
                  3) reseting appropriate catcode of > in case it were
                     used as an active char before \@endanenote (was
979 %
                     pointed by Ch. Pallier).
980 %
981 %%%% free to distribute by John_Lavagnino@Brown.edu on Thu, 23 Mar 1995
983 %
984 %
           ************
                       ENDNOTES
985 %
           ***********
986 %
987 %
988 % Date of this version: 24 September 1991.
989 %
      Based on the FOOTNOTES section of
990 %
      LATEX.TEX (VERSION 2.09 - RELEASE OF 19 April 1986), with
991 %
      "footnote" changed to "endnote" and "fn" changed to "en" (where
992 %
993 % appropriate), with all the minipage stuff pulled out, and with
994 %
      some small changes for the different operation of endnotes.
995 %
996 \% Uses an extra external file, with .ENT extension, to hold the
997 % text of the endnotes. This may be deleted after the run; a new
      version is generated each time.
998 %
999 %
      This code does not obey \nofiles. Perhaps it should.
1000 %
1001 %
1002 %
       John Lavagnino (lav@brandeis.bitnet), 9/23/88
       Department of English and American Literature,
1003 %
1004 %
          Brandeis University
1005 %
1006 % To turn all the footnotes in your documents into endnotes, say
1007 %
```

```
1008 %
          \let\footnote=\endnote
1009 %
1010 %
      in your preamble, and then add something like
1011 %
          \newpage
1012 %
1013 %
          \begingroup
1014 %
          \parindent Opt
1015 %
          \parskip 2ex
1016 %
          \def\enotesize{\normalsize}
          \theendnotes
1017 %
          \endgroup
1018 %
1019 %
1020 \% as the last thing in your document.
1021 %
1022 %
           ***********
                        CHANGE LOG
1023 %
            ************
1024 %
1025 %
1026 % JL Modified to include \addtoendnotes. JL, 10/22/89.
1027 %
1028 % JK Modification by J"org Knappen 25. 2. 1991:
1029 % JK
1030 % JK Introduced \notesname in the spirit of international \LaTeX.
1031 % JK \notesname is set per default to be {Notes}, but can easily
1032 % JK be redifined, e.g. for german language
1033 % JK \renewcommand{\notesname}{Anmerkungen}
1034 %
1035 % DW Modification by Dominik Wujastyk, London, 19 September 1991:
1036 % DW
1037 \% DW Moved the line
1038 % DW
                \edef\@currentlabel{\csname p@endnote\endcsname\@theenmark}
1039~\% DW out of the definition of \@endnotetext and into the definition
1040~\% DW of \@doanenote so that \label and \ref commands work correctly in
1041 \% DW endnotes. Otherwise, the \label just pointed to the last section
1042 % DW heading (or whatever) preceding the \theendnotes command.
1043 %
1044 \% JL Revised documentation and macros. 24 Sept 1991.
1045 %
1046 %
            ***********
1047 %
                    ENDNOTE COMMANDS
1048 %
            ***********
1049 %
1050 %
1051 %
       \endnote{NOTE}
                            : User command to insert a endnote.
1052 %
1053 %
       \endnote[NUM]{NOTE} : User command to insert a endnote numbered
1054 %
                               NUM, where NUM is a number -- 1, 2,
1055 %
                               etc. For example, if endnotes are numbered
1056 %
                               *, **, etc. within pages, then \ensuremath{\mbox{\mbox{end}note}[2]\{\ldots\}}
                               produces endnote '**'. This command does not
1057 %
```

```
1058 %
                               step the endnote counter.
1059 %
1060 %
       \endnotemark[NUM]
                            : Command to produce just the endnote mark in
1061 %
                               the text, but no endnote. With no argument,
1062 %
                               it steps the endnote counter before generating
1063 %
                               the mark.
1064 %
       \endnotetext[NUM]{TEXT} : Command to produce the endnote but no
1065 %
1066 %
                                  mark. \endnote is equivalent to
                                  \endnotemark \endnotetext .
1067 %
1068 %
        \addtoendnotes{TEXT} : Command to add text or commands to current
1069 %
1070 %
                                  endnotes file: for inserting headings,
1071 %
                                  pagebreaks, and the like into endnotes
1072 %
                                  sections. TEXT a moving argument:
                                  \protect required for fragile commands.
1073 %
1074 %
1075 %
           *************
1076 %
                    ENDNOTE USER COMMANDS
1077 %
               ***********
1078 %
1079 %
       Endnotes use the following parameters, similar to those relating
1080 %
       to footnotes:
1081 %
1082 %
       \enotesize
                   : Size-changing command for endnotes.
1083 %
1084 %
       \theendnote : In usual LaTeX style, produces the endnote number.
1085 %
       \Othernmark : Holds the current endnote's mark--e.g., \dag or '1' or 'a'.
1086 %
1087 %
1088 %
       \@makeenmark : A macro to generate the endnote marker from \@theenmark
1089 %
                      The default definition is \hbox{$^\circ\def}.
1090 %
       \@makeentext{NOTE} :
1091 %
1092 %
            Must produce the actual endnote, using \Otheenmark as the mark
1093 %
            of the endnote and NOTE as the text. It is called when effectively
            inside a \parbox, with \hsize = \columnwidth. For example, it might
1094 %
            be as simple as
1095 %
                   $^{\@theenmark}$ NOTE
1096 %
1097 %
1098 %
1099 %
           ***********
                    ENDNOTE PSEUDOCODE
1100 %
1101 %
           ***********
1102 %
1103 % \endnote{NOTE} ==
1104 % BEGIN
1105 %
        \stepcounter{endnote}
1106 %
        \Otheenmark :=G eval (\theendnote)
1107 %
        \@endnotemark
```

```
1108 %
         \@endnotetext{NOTE}
1109 % END
1110 %
1111 % \endnote[NUM]{NOTE} ==
1112 % BEGIN
1113 %
         begingroup
1114 %
            counter endnote :=L NUM
            \@theenmark :=G eval (\theendnote)
1115 %
1116 %
         endgroup
         \@endnotemark
1117 %
         \@endnotetext{NOTE}
1118 %
1119 %
       END
1120 %
1121 % \@endnotetext{NOTE} ==
1122 % BEGIN
1123 %
         write to \@enotes file: "\@doanenote{ENDNOTE MARK}"
1124 %
         begingroup
1125 %
            \next := NOTE
1126 %
            set \newlinechar for \write to \space
1127 %
            write to \@enotes file: \meaning\next
                     (that is, "macro:->NOTE)
1128 %
         {\tt endgroup}
1129 %
1130 % END
1131 %
1132 % \addtoendnotes{TEXT} ==
1133 % BEGIN
1134 %
         open endnotes file if not already open
1135 %
         begingroup
1136 %
            let \protect to \string
1137 %
            set \newlinechar for \write to \space
1138 %
            write TEXT to \@enotes file
1139 %
         endgroup
1140 % END
1141 %
1142 % \endnotemark
1143 % BEGIN \stepcounter{endnote}
             \Otheenmark :=G eval(\theendnote)
1144 %
1145 %
             \@endnotemark
1146 %
       END
1147 %
1148 % \endnotemark[NUM] ==
1149 %
       BEGIN
1150 %
            begingroup
1151 %
              endnote counter :=L NUM
1152 %
             \Otheenmark :=G eval(\theendnote)
1153 %
            endgroup
1154 %
            \@endnotemark
        END
1155 %
1156 %
1157 % \@endnotemark ==
```

```
1158 %
                                  BEGIN
1159 %
                                      \leavevmode
                                      IF hmode THEN \ensuremath{\texttt{Qx@sf}} := \the\spacefactor FI
1160 %
                                                                                                                                     % put number in main text
1161 %
                                      \@makeenmark
                                     IF hmode THEN \spacefactor := \@x@sf FI
1162 %
1163 %
                                 END
1164 %
1165 % \endnotetext
                                      BEGIN \Otheenmark :=G eval (\theendnote)
1166 %
                                                                \@endnotetext
1167 %
                                      END
1168 %
1169 %
1170 % \endnotetext[NUM] ==
1171 %
                                      BEGIN begingroup counter endnote :=L NUM
1172 %
                                                                                                                    \@theenmark :=G eval (\theendnote)
1173 %
                                                                endgroup
                                                                \@endnotetext
1174 %
                                     END
1175 %
1176 %
1177 %
                                                                                                       ENDNOTE MACROS
1178 %
1179 %
1180 %
1181
1182 \@definecounter{endnote}
1183 \def\theendnote{\arabic{endnote}}
1185 % Default definition
1186 \end{constraint} 1186 \end{constraint
1187
1188 \newdimen\endnotesep
1189
1190 \def\endnote{\@ifnextchar[{\@xendnote}{\stepcounter
                              {endnote}\xdef\@theenmark{\theendnote}\@endnotemark\@endnotetext}}
1191
1192
1193 \def\@xendnote[#1]{\begingroup \c@endnote=#1\relax
                              \xdef\@theenmark{\theendnote}\endgroup
1194
                              \@endnotemark\@endnotetext}
1195
1196
1197\,\% Here begins endnote code that's really different from the footnote
1198 % code of LaTeX.
1199
1200 \let\@doanenote=0
1201 \let\@endanenote=0
1202
1203 \newwrite\@enotes
1204 \newif\if@enotesopen \global\@enotesopenfalse
1206 \end{area} immediate open out \end{area} immediate open out
1207
                                          \global\@enotesopentrue}
```

```
1208
1209 % The stuff with \next and \meaning is a trick from the TeXbook, 382,
1210\,\% there intended for setting verbatim text, but here used to avoid
1211 % macro expansion when the footnote text is written. \next will have
1212 \% the entire text of the footnote as one long line, which might well
1213 % overflow limits on output line length; the business with \newlinechar
1214 % makes every space become a newline in the \@enotes file, so that all
1215 % of the lines wind up being quite short.
1216
1217 \long\def\@endnotetext#1{%
         \if@enotesopen \else \@openenotes \fi
1218
1219
         \immediate\write\@enotes{\@doanenote{\@theenmark}}%
1220
         \begingroup
            \def\next{#1}%
1221
            \newlinechar='40
1222
            \immediate\write\@enotes{\meaning\next}%
1223
1224
         \endgroup
         \immediate\write\@enotes{\@endanenote}}
1225
1226
1227 % \addtoendnotes works the way the other endnote macros probably should
1228 % have, requiring the use of \protect for fragile commands.
1229
1230 \long\def\addtoendnotes#1{%
1231
         \if@enotesopen \else \@openenotes \fi
1232
         \begingroup
1233
            \newlinechar='40
            \let\protect\string
1234
1235
            \immediate\write\@enotes{#1}%
         \endgroup}
1236
1237
       End of unique endnote code
1238 %
1239
1240 \def\endnotemark{\difnextchar[{\dxendnotemark}]}
        }{\stepcounter{endnote}\xdef\@theenmark{\theendnote}\@endnotemark}}
1241
1242
1243 \verb|\def|@xendnotemark[#1]{\begingroup \verb|\c@endnote| #1\relax|}
       \xdef\@theenmark{\theendnote}\endgroup \@endnotemark}
1244
1245
1246 \def\@endnotemark{\leavevmode\ifhmode
      \edef\@x@sf{\the\spacefactor}\fi \@makeenmark
1247
1248
       \ifhmode\spacefactor\@x@sf\fi\relax}
1249
1250 \def\endnotetext{\@ifnextchar
        [{\@xendnotenext}{\xdef\@theenmark{\theendnote}\@endnotetext}}
1251
1252
1253 \def\@xendnotenext[#1]{\begingroup \c@endnote=#1\relax
1254
       \xdef\@theenmark{\theendnote}\endgroup \@endnotetext}
1255
1256
1257 % \theendnotes actually prints out the endnotes.
```

```
1258
1259 \% Endnotes auto-renumber at the end of each chapter (or actually, when
1260 % they're printed...)
1261 % \enoteformat is provided so user can specify some special formatting
1262\ \% for the endnotes. It needs to set up the paragraph parameters, start
1263 % the paragraph, and print the label. The \leavemode stuff is to make
1264 % and undo a dummy paragraph, to get around the games \section*
1265 % plays with paragraph indenting.
1266
1267 \def\notesname{NOTES}% <---- AE
1268 \def\enoteheading{\chapter*{\notesname
1269
      \@mkboth{\uppercase{\notesname}}{\uppercase{\notesname}}}%
         \leavevmode\par\vskip-\baselineskip}
1270
1271
1272 \def\enoteformat{\vspace{\baselineskip}\rightskip\z@ \leftskip\z@ \parindent=1.8em
         \leavevmode\llap{\hbox{$^{\@theenmark}$}}}
1273
1274
1275 \def\enotesize{\normalsize}
1277 % The definition of \ETC. is needed only for versions of TeX prior
1278 % to 2.992. Those versions limited \meaning expansions to 1000
1279\,\% characters; in 2.992 and beyond there is no limit. At Brandeis the
1280\,\% BIGLATEX program changed the code in the token_show procedure of
1281 % TeX to eliminate this problem, but most ''big'' versions of TeX
1282 % will not solve this problem.
1283
1284 \def\theendnotes{\immediate\closeout\@enotes \global\@enotesopenfalse
1285
      \begingroup
        \makeatletter
1286
1287 % the following is to save catcode of "'>", and restore it in \@endanenote
1288 \edef\@tempa{'\string >}%
1289 \ifnum\catcode\@tempa=11\let\@ResetGT\relax% accepts also that > were active
      \else\edef\@ResetGT{\noexpand\catcode\@tempa=\the\catcode\@tempa}%
1291 \fi%
1292
        \catcode'>=12% char > will be read as char so force it to \catcode 12 --bg\edef\GOfrench{'\
        \def\@doanenote##1##2>{\def\@theenmark{##1}\par\begingroup
1293
            \@ResetGT%\catcode'>=13
1294
1295
            \edef\@currentlabel{\csname p@endnote\endcsname\@theenmark} %DW
            \enoteformat}
1296
        \def\@endanenote{\par\endgroup}%
1297
        \def\ETC.{\errmessage{Some long endnotes will be truncated; %
1298
                                 use BIGLATEX to avoid this}%
1299
              \def\ETC.{\relax}}
1300
1301
        \clearpage
1302
        \enoteheading
1303
        \enotesize
1304
        \begin{singlespacing}
1305
        \input{\jobname.ent}%
        \end{singlespacing}
1306
```

1307

\endgroup

 $1308 \quad \texttt{\setcounter\{endnote\}\{0\}\}} \\ 1309 \quad \texttt{\endinput}$