

# Edmargin: A Simple Design for Critical Editions with Multiple Endnote Series\*

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## Abstract

`edmargin` provides multiple endnotes sections with running headers of the form “Notes to pp. xx–yy” for critical editions. Rather than having endnote marks in the text, `edmargin` puts markers in the margins referring to the page in the endnotes sections to which the note refers.

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## 1 Introduction

`edmargin` provides a simple scheme for making critical editions. All critical editions provide several series of notes, such as notes about emendations, explanatory notes, and notes about the text. It is a common practice to tie these notes to line numbers in the text, whether typographical lines in prose text or verse lines in poetry. Some

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\*This document corresponds to `edmargin` 1, dated 21 April 2008.

editions of prose works enumerate sentences and paragraphs rather than lines, as the Bible does. All of these systems involve considerable amounts of laborious markup. And attaching line numbers to prose involves doing things which might make other tasks in L<sup>A</sup>T<sub>E</sub>X more difficult, such as writing the text to a box and peeling off one line at a time. `edmargin` provides a different system of annotation which minimizes markup, and also minimizes the possibilities of conflicts among commands. In the text, instead of placing a marker, or remembering the line or sentence number, `edmargin` simply places a mark in the margin (as for instance “c” for a commentary, “t” for a textual note, or “e” for an emendation) followed by the page number in the relevant endnotes section to which the note refers. So, for instance, if on page 42 of my text I have the anchor for a textual note which appears on page 563 of the endnotes section for textual notes, `edmargin` would put *c: p. 563* in the margin on page 42 of the line where that note occurs, and the text of the note would appear on p. 563, with a reference to the page in the text to which it occurs and a lemma drawn from that text. `edmargin` comes with three built in categories of endnotes (emendations, explanatory notes, textual notes), and facilities for easily constructing other categories of endnote. All of the endnote sections will have running headers of the form “Textual Notes to pp. xx–yy.”

This scheme for a critical edition, while considerably simpler than the traditional schemes, does provide the information a critical edition requires, and should be easy for readers to use, provided that there are not many notes on every line. The scheme is modelled on that used by David Erdman and Harold Bloom in their edition of the Collected Poetry and Prose of William Blake. `edmargin` can also make notes with markers in the text, in the traditional fashion.

`edmargin` requires the following packages to work correctly: with the standard document classes, or the `komascript` classes: `fancyhdr`, `ifthen` (for comparing page numbers), `needspace` (to prevent widowed chapter titles in notes sections when resetting notes by chapter using either `\notesbychapter` or `\resetendnotes`), and `titleref` (to send the chapter titles to the notes section). Because the marginal references are set with `\marginpar` you should also call `mparhack` if you are setting with the “twoside” option. `edmargin` sets very narrow margin references (only 2em wide). If you are using `marginpars` for any other purpose, you may need to adjust the width, and monkey with the other parameters to make the marginal references on both sides look symmetrical. To change the width of the `marginpars` to 4em, issue `\setlength{\marginparwidth}{4em}`.

With `memoir` class, `edmargin` requires fewer packages, since many of the package functions are built into `memoir` and some, `fancyhdr` most especially, conflict with it. Minimally, you will need `endnotes` and `ifthen`. You might wish to call `memoir` with the `oldfontcommands` option.

## 2 Setup

`\setupendnoteheaders` `\setupendnoteheaders` opens an external file to receive each of the three preset kinds of endnote. `edmargin` opens external files for emendations, textual collations, and explanatory notes (with extensions `.emd`, `.ent`, and `.enx` respectively). Then it sets the first page of each notes section to the `empty` pagestyle, since you normally don’t have running headers on the first page of a section. And it changes the pagestyle for subsequent pages to have a running header of the form “Notes to pages xx–yy.” This text will appear in the center of each header. It also writes

information to the external file which will send information to the table of contents when the external file is read back into your document. Each note written to the file increments a counter that keeps track of all the endnotes (even if you are resetting the number by chapter). `edmargin` creates two labels and two pagerefs for every note, a label and a pageref for each page in the main text *from* which a note comes, and a label and a pageref for each page in the notes sections *upon* which the note is written. Finally `edmargin` writes on the external file for the endnotes a command to set the `\mark` for that page of the endnotes using the `\pageref` to the label in the main text it has just defined.

`\makeemendations`      You can use these commands individually to set up the predefined classes of  
`\maketextnotes`      endnote, rather than using `\setupendnoteheaders` to have `edmargin` put all of  
`\makeexplanatorynotes` the emendations, textual collations, and explanatory notes in the backmatter of your volume. (This would be useful if you are not intending to make use of all three classes of note.)

`\putemendations`      `\puttextnotes`, `\putexplanatory`, or `\putemendation` read the external files  
`\puttextnotes`      back into your document at the place you specify. Remember that these commands  
`\putexplanatory` change the running header, so if any sections follow these (the bibliography, for instance) be sure to restore your prevailing headings style by issuing, for example, `\pagestyle{headings} \thispagestyle{empty}`.

`\notesbychapter`      `\notesbychapter` resets all the note counter every time you issue a `\chapter` command, and it puts a centered line reading “Chapter <chapter number> <chapter title>” in each of the three predefined sections of the the notes whenever `\chapter` is issued. If you want only the chapter number, not its title, issue `\titleinnotesfalse` in your preamble. Please note that with the standard classes `edmargin` modifies `\@chapter`, adding a few lines on to the end of the command. If some other package does the same, you may need to reconcile them. With `memoir` class, `\chapter` is modified only if `\notesbychapter` is issued.

`\setstyleforchapternotebegin`      `\setstyleforchapternotebegin` and `\setstyleforchapternoteend` al-  
`\setstyleforchapternoteend` lows you to customize the appearance of the line that separates chap-  
ters in the endnotes. If, for instance, rather having a centered line in the small font size, you want a flushleft line in the large fontsize, issue `\setstyleforchapternotebegin{\begin{flushleft}\large}` and `\setstyleforchapternoteend{\end{flushleft}}` in your preamble. To set these lines in italic or bold, issue `\setstyleforchapternotebegin{\em}` or `\setstyleforchapternotebegin{\bf}` in your preamble. (It’s safe, indeed required, to use the old style font commands here, since the chapter title line in the notes is confined to a group, which restricts the scope of the font style command to the line. If you are using `memoir` class, you should use the `oldfontcommands` option if you plan on issuing `\setstyleforchapternotebegin` and `\setstyleforchapternoteend`.) Remember that if you open an environment with `\setstyleforchapternotebegin` you must close it in `\setstyleforchapternoteend`. So, for instance, if you wish the chapter line to be set flushleft, in boldface, in normal font size, you would issue `\setstyleforchapternotebegin{\begin{flushleft}\begin{bf}\normalsize}` and `\setstyleforchapternoteend{\end{bf}\end{flushleft}}` in your preamble.

`\resetendnotes`      Conceivably you might wish to do what `\notesbychapter` does for each chapter individually. For instance, there may be a chapter without endnotes, in which case `\notesbychapter` would issue the centered line for that chapter, but no notes would follow, which is ugly. Also, since the Bibliography is, as far as L<sup>A</sup>T<sub>E</sub>X is con-

cerned, a chapter, you must use `\resetendnotes` before each chapter rather issuing `\notesbychapter` in the preamble if you have a bibliography, or odd results will follow.

`\resettextnotes`  
`\resetemendations`  
`\resetexplanatory`

These commands do what `\resetendnotes` does, but only for the named section, not for all three predefined endnote sections.

### 3 Predefined Endnote Sections

`edmargin` comes with three predefined endnotes sections and three predefined kinds of endnote, `\textnote{}`, `\emendation{}`, and `\explanatory{}`. The argument of each note can be whatever you wish, but for clarity it is a good idea to use as a lemma from the text, since that will make the passage the note refers to clear. For example: `\textnote{lemma} comment`.

`\notesincontents`

If you do not wish to include a line for the endnotes in the table of contents, issue `\notesincontentsonfalse` (This is the default). To include a line for the endnotes in the table of contents, issue `\notesincontents` or (toggling the boolean) `\notesincontentsontrue`. If you wish to rethink how to present the notes in the table of contents, include an `\addtocontents` line just before you issue `\theendnotes`, the command which will read all of your endnotes into your document at that point. For instance, I set the word “Textual Notes” in the table of contents flush with the left margin, just where the numbers in the preceding chapters are. You might, however, wish to indent that word just a bit, so that it will be flush with the chapter titles above, rather than with the chapter numbers. If you wish to do this, just before issuing `\theendnotes`, issue `\addcontentsline{toc}{chapter}{\protect\numberline{}\the\textnotescontentsname}`.

`\textnote`  
`\explanatory`  
`\emendation`  
`\literaltextnote`  
`\literationemendation`  
`\literalexplanatory`

Use `\textnote` and its siblings as you would use an ordinary `\endnote`. If you are using a lemma, you must include it in the text of the note: `\textnote{lemma text} comment`.

`\literaltextnote` and its siblings are useful for sending information directly to the endnotes section to which the command refers. All of these commands send unexpanded text to the endnote sections, so you can feel free to send this way to the endnote sections commands this way to the endnote sections which will be executed when the endnote section is read back into your document. You can send expanded text using `\immediate\write\textnotes` and its siblings.

### 4 Creating New Endnote Sections

`\definewnewnotetype`

You can create as many new kinds of endnote sections as you wish, using the `\definewnewnotetype` command. This macro will

1. Open a new output stream and create a new external file to hold the notes.
2. Define a “literalwrite” command, on the model of `\literaltextnote` for writing literal text directly to that external file.
3. Send information to that file to set the page style and the running header
4. Send information to that file to set the title of the endnotes section, and formatting information for the note text.

5. Sets up an entry for the table of contents for the note section
6. Defines a new “note” command, and a new marginal marker for that note
7. Defines a new “reset” command for setting notes by chapter, and modifies `\resetendnotes` and `\notesbychapter` to include that new reset command when those two commands are issued
8. Defines a new “put” command (on the model of `\puttextnotes`) for closing the external file and reading it into the text.

This monster command takes *six* arguments, which are used for setting the names of the various files and commands it creates, and for defining such things as the title of the new notes section and the marginal mark it places in the main text. These arguments, in order, specify

1. The base name used to construct all the commands.
2. The extension used for the external file
3. The section title in the running headers of the note section
4. The section title at the beginning of the note section
5. The name of the section in the table of contents section
6. The marginal mark placed by the note command in the text

So, for instance,

```
\definewnewnotetype{xyznote}{xyz}{Xyznotes to}{XYZNOTES}{Xyznotes}{x}
```

creates a note command `\xyznote{}`, and a command for sending literal text to the new note section `\literalxyznote`, both of which write to an external file `\jobname.xyz`, sets running headers for the notes sections of the form “Xyznotes to pp. 52-60,” write a title line in the endnotes section giving the title as XYZNOTES, writes an entry in the table of contents for Xyznotes, and sets the marginal mark set by an `\xyznote` to be “x”. You can read in the xyznotes section into your document with the command `\putxyznote`. And `\resetendnotes` and `\notesbychapter` will put chapter titles in the xyznotes section, just as they do for the textual notes, the explanatory notes, and the emendations sections. Finally, you can use `\resetxyznotes` to set a chapter title in only the xyznotes section.

A trivial use of this command would be to make traditional endnotes, in which case `edmargin` would merely be a replacement (with a slightly different command set) for `endnote` and `endheads`. The command for doing this would be

```
\definewnewnotetype{endnote}{enn}{Endnotes  
to}{ENDNOTES}{Endnotes}{\relax}
```

## 5 Using edmargin in a Multilingual World

By default, edmargin uses English language running headers, but these are easily changed.

<code>\changetextnotesname</code>	To change the title in the text for the endnote section for textual notes (the default is TEXTUAL NOTES), issue <code>\changetextnotesname{yourversion}</code> . To change the running header (by default “Textual Notes to”) issue <code>\changetextnotesheader{your version}</code> . To change the name of the textual notes section in the table of contents (the default is “Textual Notes”) issue <code>\changetextnotescontentsname</code> . Equivalent commands for emendations are <code>\changeemendationsname</code> <code>\changeemendationsheadername</code> and <code>\changeemendationscontentsname</code> . Equivalent commands for explanatory notes are <code>\changeexplanationsname</code> <code>\changeexplanationsheader</code> and <code>\changeexplanationscontentsname</code> .
<code>\changesinglepageabbrev</code> <code>\changemultiplepageabbrev</code>	Running headers refer to single pages with the English abbreviation “p.” and to multiple pages with the English abbreviation “pp.” To change these issue <code>\changesinglepageabbrev{new abbrev}</code> or <code>\changemultiplepageabbrev{new abbrev}</code> respectively. The ultimate outcome is to translate a header of the form “Notes to pp. xx-yy” to the form appropriate for your language.
<code>\changechapternotesline</code>	If you are using <code>\resetendnotes</code> or <code>\setnotesbychapter</code> you may also want to change the text of the line those commands add to the endnotes so as to use some other word than “Chapter.” To change this, issue <code>\changechapternotesline{your version}</code> .
<code>\backmattertextfont</code>	<code>\edmargin</code> sets the endnote text in the <code>\small</code> size. To change it to <code>\normalsize</code> issue <code>\renewcommand{\backmattertextfont}{\normalsize}</code> .

## 6 Customization

<code>\notemarkinmargin</code> <code>\notemarkintext</code>	Rather than using marginal references, edmargin can be set to put regular endnote markers in the text and in the endnote sections. The different series of endnotes will be distinguished by using the same abbreviations that were used in the case in which marginal references were used. So, for instance, the third textual note will have a mark that looks “t:3” both in the text and in the textual notes section, and the fifth explanatory note will have a mark that “c:5” both in the text and in the textual notes section. You can put the endnote markers in the main text rather than in the margins by issuing <code>\notemarkintext</code> in your preamble. Putting the endnote markers in the margin is the default, but you can make sure that they go there by issuing <code>\notemarkinmargin</code> .
<code>\textnotesparamode</code> <code>\emendationsparamode</code> <code>\explanationsparamode</code>	If you wish to print your endnotes as block paragraphs, rather than giving a paragraph to each note, issue <code>\textnotesparamode</code> , <code>\emendationsparamode</code> , or <code>\explanationsparamode</code> , as the case may require. If you have used <code>\definewnotetype</code> to define a note type called <code>\xyznote</code> , you can set these notes in block paragraphs by issuing <code>\xyznotesparamode</code> . You might consider setting your notes in block paragraphs if you have very many very short notes.

## 7 Known Issues

Because the marginal references are set with `\marginpar` some of them will appear on the wrong side in two-sided printing, unless you include `mparhack` in your list of packages. Also, if you have more than one reference on a line, the second reference will be moved down a line (marginpars are floats). This may not be an issue if the lemma in the second note makes it clear what in the text it refers to. This problem can be remedied by substituting the `marn` package and using the `\marn` command in place of `\marginpar`.

Using `\definewnewnotetype` with `\notesbychapter` or `\resetendnotes` causes a complaint that an `\iftrue` has been left open whenever a `\chapter` command is written. The origin is probably a problem with `\appendtomacro`. But the error is harmless, it turns out, so I haven't tracked it down.

## 8 Implementation

### 8.1 General Purpose Routines

Essentially these routines are code posted by Heiko Oberdiek to `comp.text.tex`. If you set a counter from a `\pageref`, that `\pageref` is undefined on the first run, and T<sub>E</sub>X will not only complain about the undefined reference, but give a “missing number” error if you try to do anything with that reference, such as compare one page number to another. These commands enable one to use the `\pageref` without generating the missing number error on the first run.

```
1 \providecommand*\ifrefundefined}[1]{%
2   \expandafter\ifx\csname r@#1\endcsname\relax
3   \expandafter\@firstoftwo
4   \else
5     \expandafter\@secondoftwo
6   \fi
7 }
8 \providecommand*\@extract@ref}[2]{%
9   \expandafter\expandafter\expandafter#1\csname
10  r@#2\endcsname\}{\}\@nil
11 }
12
13 \providecommand*\@extractref}{%
14   \@extract@ref\@car
15 }
16
17 \providecommand*\@extractpageref}{%
18   \@extract@ref\@secondcar
19 }
20
21 \long\def\@secondcar#1#2#3\@nil{#2}
22
23 \providecommand*\setcounterfromref}[2]{%
24   \ifrefundefined{#2}{%
25     \protect\G@refundefinedtrue
26     \latex@warning{Reference ‘#2’ on page \thepage \space
27       undefined}%
28     \setcounter{#1}{0}%
29   }
```

```

29 }{%
30   \setcounter{#1}{\@extractref{#2}}%
31 }%
32 }
33 \providecommand*\setcounterfrompageref}[2]{%
34   \ifrefundefined{#2}{%
35     \protect\G@refundefinedtrue
36     \@latex@warning{Reference ‘#2’ on page \thepage \space
37       undefined}%
38     \setcounter{#1}{0}%
39   }{%
40     \setcounter{#1}{\@extractpageref{#2}}%
41   }%
42 }
43 \long\def\appendtomacro#1#2{%
44 \begingroup
45   \toks@{\expandafter{#1#2}}%
46   \xdef#1{\the\toks@}%
47 \endgroup}

```

## 8.2 Building Blocks

First, define some counters:

```

48 \newcounter{allendnotes}
49 \setcounter{allendnotes}{1}
50 \newcounter{notepageholder} \setcounter{notepageholder}{1}

```

`\mymarks` A command to set the marks. This will be called by the page style. Notice that there is a test to see whether memoir class is being loaded, so that marks will be set using memoir commands if they are available.

```

51 \newtoks{\singlepageabbrev}
52 \singlepageabbrev={p.}
53 \newcommand{\changesinglepageabbrev}[1]{\singlepageabbrev={#1}}
54 \newtoks{\multiplepageabbrev}
55 \newcommand{\changemultiplepageabbrev}[1]{\multiplepageabbrev={#1}}
56 \newtoks{\chapternoteslinename}
57 \chapternoteslinename={Chapter}
58 \newcommand{\changechapternotesline}[1]{\chapternoteslinename={#1}}
59 \multiplepageabbrev{pp.}
60 \ifclassloaded{memoir}{\newcommand{\mymarks}{%
61   \ifthenelse{equal{\rightmark}{\leftmark}}{%
62     {\unskip ~\the\singlepageabbrev~\rightmark}% if equal
63     {\unskip ~\the\multiplepageabbrev~\rightmark--\leftmark}}%if not equal
64 }
65 {\newcommand{\mymarks}{%
66   \ifthenelse{equal{\firstmark}{\botmark}}{%
67     {\unskip ~\the\singlepageabbrev~\firstmark}% if equal
68     {\unskip ~\the\multiplepageabbrev~\firstmark--\botmark}}%if not equal
69 }

```

`\endnotespagestyle` A command to set the page style in fancyhdr. You might want to change some aspects of this, such as where to put the page number, to make it consistent with the rest of your document. Notice that there is a test to see whether memoir class



is being loaded, so that the header commands built in to memoir are used if they are available, and the header commands from fancyhdr are used if they are not.

```

70 \ifclassloaded{memoir}{\makepagestyle{plain}
71 \makeevenhead{plain}{\small\textrm{\thepage}}}
72 \makeoddhead{plain}{\small\textrm{\thepage}}{}{}
73 \makeevenfoot{plain}{}{}
74 \makeoddfoot{plain}{}{}
75 \makepagestyle{endnotesstyle}
76 \makeevenhead{endnotesstyle}{\small\textrm{\thepage}}}
77 {\small\em \the\notesheadername~\mymarks}}{}
78 \makeoddhead{endnotesstyle}{\small\em \the\notesheadername~\mymarks}}
79 {\small\textrm{\thepage}}}
80 \makeevenfoot{}{}
81 \makeoddfoot{}{}
82 }\fancypagestyle{plain}{%
83 \fancyhf{}
84 \fancyhead[RO,LE]{\small\textrm{\thepage}}}
85 \renewcommand{\headrulewidth}{0pt}
86 \renewcommand{\footrulewidth}{0pt}
87 }
88 \fancypagestyle{endnotesstyle}{%
89 \fancyhf{}
90 \fancyhead[CO]{\small\em \the\notesheadername~\mymarks}}
91 \fancyhead[CE]{\small\em \the\notesheadername~\mymarks}}
92 \renewcommand{\headrulewidth}{0pt}
93 \renewcommand{\footrulewidth}{0pt}
94 \fancyhead[RO,LE]{\small\textrm{\thepage}}}
95 }
96 }

```

**\checknoteheaders** This macro sets the counter notepageholder to the value given by the pageref of the note that is being output. All that strange business with `\string` is there because I want to use the `\immediate\write` mechanism to control what gets expanded and what doesn't get expanded on the external files for the endnotes, `\jobname.ent` and its friends. Everything except the actual number of the endnote is written to the external file as unexpanded tokens. When, after you call `\theendnotes`, you read in the external file for the endnotes, for example `\jobname.ent`, all these tokens become a command to set the `\mark`. Notice that there are two forms of this command, one for the standard document classes, one for memoir class. `edmargin` chooses which form depending upon which class is loaded.

```

97 \ifclassloaded{memoir}{\newcommand{\checknoteheaders}{%
98 \string\setcounterfrompageref\string{notepageholder\string}%
99 \string{notl\theallendnotes\string}%
100 \string\markboth\string{\string\thenotepageholder
101 \string}\string{\string\thenotepageholder\string}%
102 }
103 }\newcommand{\checknoteheaders}{%
104 \string\setcounterfrompageref\string{notepageholder\string}%
105 \string{notl\theallendnotes\string}%
106 \string\mark\string{\string\thenotepageholder\string}%
107 }
108 }
109

```

### 8.3 User Code

`\notesincontents` This command just sets a boolean. Later, that boolean will be used to determine whether you use the default line for the table of contents for each endnote class, or whether you define one for yourself using `\addtocontents`.

```

110 \newif\ifnotesincontentson \notesincontentsonfalse
111 \newcommand{\notesincontents}{\notesincontentsontrue}

```

`\maketextnotes` Next, setting up the textual collations: `\maketextnotes` opens an external file with the extension .ent. And it sends formatting information for the first page of the section, as well as information to send to the table of contents. Also, it sets a label for sending the page number of the textual notes to the table of contents.

```

112 % Extra white space at the top of the first page
113 \newcommand{\backmatterafterheadersink}{\leavevmode\vspace{11pt}}
114 % Set notes in small type
115 \newcommand{\backmattertextfont}{\small}
116 % writes unexpanded text on the specified external file
117 \def\strip#1>{}
118 \newcommand{\literaltextnote}[1]{
119     \begingroup
120         \def\next{#1}%
121         \newlinechar='40
122         \immediate\write\textnotes{\expandafter\strip\meaning\next}%
123     \endgroup
124 }
125 \newcommand{\literalemend}[1]{
126     \begingroup
127         \def\next{#1}%
128         \newlinechar='40
129         \immediate\write\emendations{\expandafter\strip\meaning\next}%
130     \endgroup
131 }
132 \newcommand{\literalexplain}[1]{
133     \begingroup
134         \def\next{#1}%
135         \newlinechar='40
136         \immediate\write\explanations{\expandafter\strip\meaning\next}%
137     \endgroup
138 }
139 % Nothing happens to textual notes unless you say you want to collect
140 % them.
141 \newif\iftextnoteson \textnotesonfalse
142 \newif\ifexplanon \explanonfalse
143 \newif\ifemendationson \emendationsonfalse
144 % Use tokens rather than hard coded names to make multilingual use easier
145 \newtoks{\notesheadername}
146 \newtoks{\edmrnotesname}
147 \edmrnotesname={TEXTUAL NOTES}
148 \newcommand{\changetextnotesname}[1]{\edmrnotesname={#1}}
149 \newtoks{\textnotesheadername}
150 \notesheadername={Textual Notes to}
151 \newcommand{\changetextnotesheader}[1]{\textnotesheadername={#1}}
152 \newtoks{\textnotescontentsname}
153 \textnotescontentsname={Textual Notes}

```

```

154 \newcommand{\changetextnotescontentsname}[1]{\textnotescontentsname={#1}}
155 % font size for endnote section titles
156 \newcommand{\backmatterheadingfont}{\fontsize{16}{20}\selectfont}
157 % setting up an empty page
158 \newcommand{\clearempydoublepage}{\newpage{\pagestyle{empty}\cleardoublepage}}
159 % white space at top of back matter sections
160 \newcommand{\backmattersink}{\leavevmode\vspace{21.5pt}}
161 % set up the external file for textual notes
162 \newcommand{\maketextnotes}{\global\textnotesontrue
163   \newwrite\textnotes
164   \immediate\openout\textnotes=\jobname.ent
165   \literaltextnote{{\par\clearpage
166     {\pagestyle{empty}\cleardoublepage}
167     \thispagestyle{empty}}}
168   \notesheadername={\the\textnotesheadername}
169   \pagestyle{endnotesstyle}
170   % \fancyhead{}
171   % \fancyfoot{}
172   % \fancyhead[RO,LE]{{\small\textrm{\thepage}}}
173   % \fancyhead[CO]{{\small\em \the\textnotesheadername~\mymarks}}}
174   % \fancyhead[CE]{{\small\em \the\textnotesheadername~\mymarks}}}
175   % \fancyfoot[C]{}
176   \mark{3}
177   \backmattersink
178   \begin{center}{\normalfont \backmatterheadingfont \the\edmrnotesname}\end{center}
179   \label{textualnotes}
180   % \lefthyphenmin=2\backmatterafterheadersink\tolerance=500\language=0
181   \normalfont \backmattertextfont}
182 \immediate\write\textnotes{\string\ifnotesincontentson}%
183 \immediate\write\textnotes{\string\addcontentsline\string{toc}\string
184 \string{chapter}\string}\string{\string\the\string\textnotescontentsname\string}}%
185 %\immediate\write\@enotes{\string{\string\notescontentsname\string}}%
186 %\string{\string\protect\string\numberline
187 %\string{\string} \string\notescontentsname \string}
188 \immediate\write\textnotes{\string\fi}
189 }

```

\makeemendations Next, the emendations section:

```

190 \newtoks{\emendationsname}
191 \emendationsname={EMENDATIONS}
192 \newcommand{\changeemendationsname}[1]{\emendationsname={#1}}
193 \newtoks{\emendationsheadername}
194 \emendationsheadername={Emendations to}
195 \newcommand{\changeemendationsheader}[1]{\emendationsheadername={#1}}
196 \newtoks{\emendationscontentsname}
197 \emendationscontentsname={Emendations}
198 \newcommand{\changeemendationscontentsname}[1]{%
199 \emendationscontentsname={#1}}
200 \newcommand{\makeemendations}{\global\emendationsontrue
201   \newwrite\emendations
202   \immediate\openout\emendations=\jobname.emd
203   \literatemend{{\par\clearpage
204     {\pagestyle{empty}\cleardoublepage}
205     \thispagestyle{empty}}}

```

```

206 \notesheadername={\the\emendationsheadername}
207 \pagestyle{endnotesstyle}
208 % \fancyhead{}
209 % \fancyhead[RO,LE]{\small\textrm{\thepage}}
210 % \fancyhead[CO]{\small{\em \the\emendationsheadername~\mymarks}}
211 % \fancyhead[CE]{\small{\em \the\emendationsheadername~\mymarks}}
212 % \fancyfoot{}
213 \mark{3}
214 \backmattersink
215 \begin{center}{\normalfont \backmatterheadingfont
216 \the\emendationsname}\end{center}
217 \label{emendationnotes}
218 % \lefyphenmin=2\backmatterafterheadersink\tolerance=500\language=0
219 \normalfont \backmattertextfont}
220 \immediate\write\emendations{\string\ifnotesincontentson}%
221 \immediate\write\emendations{\string\addcontentsline\string{toc}\string
222 \string{chapter}\string}\string{\string\the\string\emendationscontentsname\string}}%
223 %\immediate\write\@enotes{\string{\string\notescontentsname\string}}%
224 %\string{\string\protect\string\numberline
225 %\string{\string} \string\notescontentsname \string}
226 \immediate\write\emendations{\string\fi}
227 }

```

\makeexplanatorynotes And the explanatory notes:

```

228 \newtoks{\explanationsname}
229 \explanationsname={EXPLANATORY NOTES}
230 \newcommand{\changeexplanationsname}[1]{\explanationsname={#1}}
231 \newtoks{\explanationsheadername}
232 \explanationsheadername={Explanatory Notes to}
233 \newcommand{\changeexplanationsheader}[1]{\explanationsheadername={#1}}
234 \newtoks{\explanationscontentsname}
235 \explanationscontentsname={Explanatory Notes}
236 \newcommand{\changeexplanationscontentsname}[1]{%
237 \explanationscontentsname={#1}}
238 \newcommand{\makeexplanatorynotes}{\global\explanontrue
239 \newwrite\explanations
240 \immediate\openout\explanations=\jobname.enx
241 \literate\explain{{\par\clearpage
242 {\pagestyle{empty}\cleardoublepage}
243 \thispagestyle{empty}}
244 \notesheadername={\the\explanationsheadername}
245 \pagestyle{endnotesstyle}
246 % \fancyhead[RO,LE]{\small\textrm{\thepage}}
247 % \fancyhead[CO]{\small{\em \the\explanationsheadername~\mymarks}}
248 % \fancyhead[CE]{\small{\em \the\explanationsheadername~\mymarks}}
249 % \fancyfoot{}
250 \mark{3}
251 \backmattersink
252 \begin{center}{\normalfont \backmatterheadingfont
253 \the\explanationsname}\end{center}
254 \label{explanatorynotes}
255 % \lefyphenmin=2\backmatterafterheadersink\tolerance=500\language=0
256 \normalfont \backmattertextfont }
257 \immediate\write\explanations{\string\ifnotesincontentson}%

```

```

258 \immediate\write\explanations{\string\addcontentsline\string{toc}\string}
259 \string{chapter\string}\string{\string\the\string\explanationscontentsname\string}}%
260 %\immediate\write\@enotes{\string{\string\notescontentsname\string}}%
261 %\string{\string\protect\string\numberline
262 %\string{\string} \string\notescontentsname \string}
263 \immediate\write\explanations{\string\fi}
264 }

```

Auxiliary commands for note and title sections

```

265 %
266 \newcommand{\argpageref}[1]{\pageref{#1}}
267 \newcommand{\@pagemarktotextnotes}[1]{%
268 \immediate\write\textnotes{\string\setcounterfrompageref\string\notepageholdertitle\string}%
269 \string{#1\string}\string\unskip}%
270 \immediate\write\textnotes{\string\mark%
271 \string{\string\thenotepageholdertitle\string}}%
272 }
273 \newcommand{\@poempagetotextnotes}[1]{%
274 \immediate\write\textnotes{\string\par\string\argpageref\string{#1\string}\string\unskip}%
275 \@pagemarktotextnotes{#1}}
276 \newcommand{\@poemtitletotextnotes}[1]{\literaltextnote{\textbf{#1}}}

```

`\setupendnoteheaders`    `\setupendnoteheaders` turns on processing of running headers.

```

277 \newif\ifendnoteheaderson \endnoteheadersonfalse
278 \newcommand{\setupendnoteheaders}{%
279 \endnoteheadersontrue
280 \maketextnotes
281 \makeexplanatorynotes
282 \makeemendations
283 }
284 % \newcommand{\setupendnoteheaders}{%
285 % \endnoteheadersontrue
286 % \if@enotesopen \else \@openenotes \fi
287 % \immediate\write\@enotes{%
288 % \string\thispagestyle\string{empty\string}
289 % \string\pagestyle\string{endnotesstyle\string}}
290 % \immediate\write\@enotes{\string\ifnotesincontentson}%
291 % \immediate\write\@enotes{\string\addcontentsline\string{toc}\string}
292 % \string{chapter\string}\string{\string\the\string\notescontentsname\string}}%
293 % %\immediate\write\@enotes{\string{\string\notescontentsname\string}}%
294 % %\string{\string\protect\string\numberline
295 % %\string{\string} \string\notescontentsname \string}
296 % \immediate\write\@enotes{\string\fi}
297 % \def\endnote{\@ifnextchar[\@xendnote{\stepcounter{endnote}}%
298 % % my addition begins
299 % \stepcounter{allendnotes}\label{not1\theallendnotes}%
300 % \immediate\write\@enotes{\checknoteheaders}%
301 % % my addition ends
302 % \protected@xdef\@theenmark{\theendnote}%
303 % \@endnotemark\@endnotetext}}
304 % \let\oldtheendnotes=\theendnotes
305 % \renewcommand{\theendnotes}{%
306 % \immediate\write\@enotes{\string\thispagestyle\string{endnotesstyle\string}}
307 % \oldtheendnotes}

```

```

308 % }

\putemendations This macro closes external file for emendations, reads it in, and puts an entry for
the emendations into the table of contents file. The macro tests to see whether
there is an .aux file from a previous run before doing this, and complains in the
.log file if the .aux file does not exist.

309 % \newcommand{\hyphenationforsmall}{\small\bf \hyphenchar\font=45
310 % \small\it \hyphenchar\font=45
311 % \small\rm \hyphenchar\font=45
312 % }
313 \newcommand{\putemendations}{
314 \ifemendationson
315   \clearempydoublepage
316 %   \hyphenationforsmall
317   \immediate\closeout\emendations
318   \input \jobname.emd
319 %   \ifpoemcontentson
320 %     \ifemendationson
321 % \immediate\write\poemcontents{\string\contentspoemtitlefont\ \the\emendationscontentsname}
322 % \immediate\write
323 %   \poemcontents{\string~ \string\contentsleaders \string~\
324 % \string\pageref{emendationnotes} \string\par}
325 % \immediate\write\poemcontents{\string\par \string\smallskip}
326 %   \fi
327 %\fi
328 \else
329 \relax
330 \fi}

\putexplanatory Does the same for explanatory notes.

331 \newcommand{\putexplanatory}{
332 \ifexplanon
333   \clearempydoublepage
334 %   \hyphenationforsmall
335   \immediate\closeout\explanations
336   \input \jobname.enx
337 %   \ifpoemcontentson
338 %     \ifexplanon
339 % \immediate\write\poemcontents{\string\contentspoemtitlefont\ \the\explanationscontentsname}
340 % \immediate\write
341 %   \poemcontents{\string~ \string\contentsleaders \string~\
342 % \string\pageref{explanatorynotes} \string\par}
343 % \immediate\write\poemcontents{\string\par \string\smallskip}
344 %   \fi
345 % \fi
346 \else
347 \relax
348 \fi}

\puttextnotes Does the same for textual notes.

349 \newcommand{\puttextnotes}{
350 \iftextnoteson
351   \clearempydoublepage

```

```

352 % \hyphenationforsmall
353 \immediate\closeout\textnotes
354 \input \jobname.ent
355 % \ifpoemcontentson
356 % \iftextnoteson
357 % \immediate\write\poemcontents{\string\contentspoemtitlefont\ \the\textnotescontentsname}
358 % \immediate\write
359 % \poemcontents{\string~ \string\contentsleaders \string~\
360 % \string\pageref\textualnotes} \string\par}
361 % \immediate\write\poemcontents{\string\par \string\smallskip}
362 % \fi
363 % \fi
364 \else
365 \relax
366 \fi}

```

`\margreftextnote` Macros to set marginal page references showing where in the apparatus a comment upon the marked line is to be found. `\margrefspecial{}` is for occasions when you might need to set the label by hand. For instance, suppose you have several textnotes on a line, and the note you wish to draw attention to is on a different page from the other notes. `\margreftextnote` under those circumstances will point only to the first note. Use `\margrefspecial` to point to the other note, giving `\margrefspecial` a unique argument, and opening that note with a command using the same argument.

```

367 \setlength{\marginparwidth}{2em}
368 \newcounter{margrefnumber}
369 \setcounter{margrefnumber}{1}
370 \newtoks{\margrefmarker}
371 \margrefmarker={\dag}
372 \newcommand{\setmargrefmarker}[1]{\margrefmarker={#1}}%
373 \newcommand{\makemargreflabel}{\string\label\string{margref\themargrefnumber\string}}
374 \newcommand{\setmargref}{%
375 \marginpar{\scriptsize {\the\margrefmarker~p.~\pageref{margref\themargrefnumber}}}%
376 }
377 \newcommand{\margreftextnote}{%
378 \iftextnoteson\addtocounter{margrefnumber}{1}%
379 \immediate\write\textnotes{\makemargreflabel}%
380 \setmargref\else\relax\fi%
381 }
382 \newcommand{\margrefexplanatory}{%
383 \ifexplanon\addtocounter{margrefnumber}{1}%
384 \immediate\write\explanations{\makemargreflabel}%
385 \setmargref\else\relax\fi%
386 }
387 \newcommand{\margrefemendation}{%
388 \ifemendationson\addtocounter{margrefnumber}{1}%
389 \immediate\write\emendations{\makemargreflabel}%
390 \setmargref\else\relax\fi%
391 }
392 \newcommand{\margrefspecial}[1]{%
393 \marginpar{\scriptsize {\the\margrefmarker~p.~\pageref{#1}}}
394 }
395 % or, perhaps the note marker should be in the text rather than in

```

```

396 % the margin
397 \newif\ifn@temarkinmargin%
398 \n@temarkinmargintrue%
399 \newif\ifn@temarkintext%
400 \n@temarkintexttrue%
401 \newcommand{\notemarkinmargin}{\n@temarkinmargintrue\n@temarkintextfalse}
402 \newcommand{\notemarkintext}{\n@temarkinmarginfalse\n@temarkintexttrue}
403 %\newif\ifnotemarkinmargin \notemarkinmargintrue%
404 \newcounter{enmrnotescratchcount}%
405 \setcounter{enmrnotescratchcount}{0}
406 \newtoks{\enmrendnotemarker}%
407 \newcommand{\makeenmrendnotemarker}{%
408 \enmrendnotemarker={\the\margrefmarker\theenmrnotescratchcount}}%
409 \newcommand{\putenmrnotemarkerintext}{%
410 \hbox\textsuperscript{\scriptsize{\the\enmrendnotemarker}}}%
411 % To set notes in as a block paragraph, rather than individually
412 \newif\iftextnotespara{\textnotesparafalse}
413 \newcommand{\textnotesparamode}{\textnotesparatrue}
414 \newif\ifemendationspara{\emendationsparafalse}
415 \newcommand{\emendationsparamode}{\emendationsparatrue}
416 \newif\ifexplanationspara{\explanationsparafalse}
417 \newcommand{\explanationsparamode}{\explanationsparatrue}

\textnote

418 % \newcommand{\textnote}[1]{%
419 % \iftextnoteson%
420 % \margrefmarker={t:}%
421 % \stepcounter{allendnotes}\label{notl\theallendnotes}%
422 % \immediate\write\textnotes{\checknoteheaders}%
423 % \immediate\write\textnotes{\string\par\string{\string\textbf\string{p.\
424 % \string\pageref\string{notl\theallendnotes\string}\string}\string}}%
425 % \literaltextnote{~#1}%
426 % \margreftextnote%
427 % \fi
428 % }
429 \newcounter{enmrtextnotecount}
430 \newcommand{\textnote}[1]{%
431 \iftextnoteson%
432 \margrefmarker={t:}%
433 \ifn@temarkinmargin\n@temarkinmargin
434 \margreftextnote%
435 \else%
436 \stepcounter{enmrtextnotecount}%
437 \setcounter{enmrnotescratchcount}{\value{enmrtextnotecount}}%
438 \makeenmrendnotemarker%
439 \putenmrnotemarkerintext%
440 \fi%
441 \stepcounter{allendnotes}\label{notl\theallendnotes}%
442 \immediate\write\textnotes{\checknoteheaders}%
443 \ifn@temarkinmargin%
444 \iftextnotespara\relax\else%
445 \immediate\write\textnotes{\string\par}\fi%
446 \immediate\write\textnotes{\string{\string\textbf\string{p.\
447 \string\pageref\string{notl\theallendnotes\string}\string}\string}}%

```



```

448 \else
449 \iftextnotespara\relax\else%
450 \immediate\write\textnotes{\string\par}\fi%
451 \immediate\write\textnotes{\string\textsuperscript\string{\theenmrnotescratchcount\string}%
452 }%
453 \fi
454 \literaltextnote{~#1}%
455 \fi
456 }

\explanatory
457 \newcounter{enmrexplanatorycount}
458 \newcommand{\explanatory}[1]{%
459 \ifexplanon%
460 \margrefmarker={c:}%
461 \ifn@temarkinmargin%
462 \margrefexplanatory%
463 \else%
464 \stepcounter{enmrexplanatorycount}%
465 \setcounter{enmrnotescratchcount}{\value{enmrexplanatorycount}}%
466 \makeenmrendnotemarker%
467 \putenmrnotemarkerintext%
468 \fi%
469 \stepcounter{allendnotes}\label{not1\theallendnotes}%
470 \immediate\write\explanations{\checknoteheaders}%
471 \ifn@temarkinmargin%
472 \ifexplanationspara\relax\else%
473 \immediate\write\explanations{\string\par}\fi%
474 \immediate\write\explanations{\string{\string\textbf\string{p.\
475 \string\pageref\string{not1\theallendnotes\string}\string}\string}}%
476 \else%
477 \ifexplanationspara\relax\else%
478 \immediate\write\explanations{\string\par}\fi%
479 \immediate\write\explanations{\string%
480 \textsuperscript\string{\theenmrnotescratchcount\string}%
481 }%
482 \fi
483 \literateexplain{~#1}%
484 \fi}

\emendation
485 \newcounter{enmremendationcount}
486 \newcommand{\emendation}[1]{%
487 \ifemendationson%
488 \margrefmarker={e:}%
489 \ifn@temarkinmargin%
490 \margrefemendation%
491 \else%
492 \stepcounter{enmremendationcount}%
493 \setcounter{enmrnotescratchcount}{\value{enmremendationcount}}%
494 \makeenmrendnotemarker%
495 \putenmrnotemarkerintext%
496 \fi%
497 \stepcounter{allendnotes}\label{not1\theallendnotes}%

```

```

498 \immediate\write\emendations{\checknoteheaders}%
499 \ifn@temarkinmargin%
500 \ifemendationspara\relax\else%
501 \immediate\write\emendations{\string\par}\fi%
502 \immediate\write\emendations{\string{\string\textbf\string{p.\
503 \string\pageref\string{notl\theallendnotes\string}\string}\string}}%
504 \else%
505 \ifemendationspara\relax\else%
506 \immediate\write\emendations{\string\par}\fi%
507 \immediate\write\emendations{\string\textsuperscript\string{\theenmrnotescratchcount\string}%
508 }%
509 \fi
510 \literatelemend{~#1}%
511 \fi}

```

\setstyleforchapternotebegin

```

512 \newif\iftitleinnotes \titleinnotestrue%
513 \newcommand{\styleforchapternotebegin}{%
514 }
515 \newcommand{\styleforchapternoteend}{%
516 }
517 \newcommand{\setstyleforchapternotebegin}[1]{%
518 \renewcommand{\styleforchapternotebegin}{#1}}
519 \newcommand{\setstyleforchapternoteend}[1]{%
520 \renewcommand{\styleforchapternoteend}{#1}}%
521 \setstyleforchapternotebegin{\begin{center}}
522 \setstyleforchapternoteend{\end{center}}
523 \newcommand{\resettextnotes}{%
524 % \label{chapter\thechapter}%
525 \immediate\write\textnotes{\string\begin{group}}%
526 \immediate\write\textnotes{\string\goodbreak}%
527 \immediate\write\textnotes{\string\Needspace\string{5\string\baselineskip\string}}%
528 \immediate\write\textnotes{\string\styleforchapternotebegin}%
529 \immediate\write\textnotes{\the\chapternoteslinename\string\ \thechapter\string~}%
530 \iftitleinnotes%
531 \immediate\write\textnotes{\string\titleref\string{chapter\thechapter\string}}%
532 \fi%
533 %\immediate\write\textnotes{\string}}
534 \immediate\write\textnotes{\string\styleforchapternoteend}%
535 % \immediate\write\textnotes{\string\end\string{center\string}}
536 \immediate\write\textnotes{\string\nopagebreak}%
537 \immediate\write\textnotes{\string\endgroup}%
538 }
539 \newcommand{\resetemendations}{%
540 % \label{chapter\thechapter}%
541 \immediate\write\emendations{\string\begin{group}}%
542 \immediate\write\emendations{\string\goodbreak}%
543 \immediate\write\emendations{\string\Needspace\string{5\string\baselineskip\string}}%
544 \immediate\write\emendations{\string\styleforchapternotebegin}%
545 \immediate\write\emendations{\the\chapternoteslinename\string\ \thechapter\string~}%
546 \iftitleinnotes%
547 \immediate\write\emendations{\string\titleref\string{chapter\thechapter\string}}%
548 \fi%
549 \immediate\write\emendations{\string\styleforchapternoteend}%

```

```

550 \immediate\write\emendations{\string\nopagebreak}%
551 \immediate\write\emendations{\string\endgroup}%
552 }
553 \newcommand{\resetexplanatory}{%
554 % \label{chapter\thechapter}%
555 \immediate\write\explanations{\string\beginngroup}%
556 \immediate\write\explanations{\string\goodbreak}%
557 \immediate\write\explanations{\string\Needspace\string{5\string\baselineskip\string}}%
558 \immediate\write\explanations{\string\styleforchapternotebegin}%
559 \immediate\write\explanations{\the\chapternoteslinename\string\ \thechapter\string~}%
560 \iftitleinnotes%
561 \immediate\write\explanations{\string\titleref\string{chapter\thechapter\string}}%
562 \fi%
563 \immediate\write\explanations{\string\styleforchapternoteend}%
564 \immediate\write\explanations{\string\nopagebreak}%
565 \immediate\write\explanations{\string\endgroup}%
566 }
567 \newcommand{\resetendnotes}{%
568 \resettextnotes%
569 \resetemendations%
570 \resetexplanatory}

```

#### \notesbychapter

```

571 \newif\ifnotesbychapteron \notesbychapteronfalse
572 \@ifclassloaded{memoir}{\newcommand{\notesbychapter}{\notesbychapterontrue}
573 \addtoargdef{\chapter}{\iftitleinnotes%
574   \label{chapter\thechapter}%
575   \fi%
576   \ifnotesbychapteron%
577   \relax%
578   \resetendnotes%
579   \fi}}
580 {\newcommand{\notesbychapter}{\notesbychapterontrue}
581 \def\@chapter[#1]#2{\ifnum \c@secnumdepth >\m@ne
582   \if@mainmatter
583     \refstepcounter{chapter}%
584     \typeout{\@chapapp\space\thechapter.}%
585     \addcontentsline{toc}{chapter}%
586       {\protect\numberline{\thechapter}#1}%
587   \else
588     \addcontentsline{toc}{chapter}{#1}%
589   \fi
590 \else
591   \addcontentsline{toc}{chapter}{#1}%
592 \fi
593 \chaptermark{#1}%
594 \addtocontents{lof}{\protect\addvspace{10\p@}}%
595 \addtocontents{lot}{\protect\addvspace{10\p@}}%
596 \if@twocolumn
597   \topnewpage[\@makechapterhead{#2}]%
598 \else
599   \@makechapterhead{#2}%
600   \@afterheading
601 \fi

```

```

602 \iftitleinnotes%
603 \label{chapter\thechapter}%
604 \fi%
605 \ifnotesbychapteron%
606 \relax%
607 \resetendnotes%
608 \fi}
609 }

```

\definewnotetype

```

610 % first, some building block commands
611 % make some new ifs (Thanks to Igor Pechtchanski and Ulrich Schwarz)
612 \newcommand{\m@kenewnoteif}[1]{%
613 \expandafter\newif\csname if#1son\endcsname%
614 \global\csname #1sontrue\endcsname%
615 \expandafter\newif\csname ifno#1yet\endcsname%
616 \csname no#1yettrue\endcsname%
617 }
618 % make a new output stream
619 \newcommand{\n@woutputstream}[2]{%
620 \expandafter\newwrite\csname #1s\endcsname%
621 \immediate\expandafter\openout\csname #1s\endcsname=\expandafter\jobname .#2%
622 }
623 % set up a new literalwrite command
624 \newcommand{\n@wliteralwrite}[1]{%
625 \expandafter\newcommand\csname literal#1\endcsname[1]{%
626 \begingroup%
627 \def\next{##1}%
628 \newlinechar='40
629 \immediate\write\expandafter\csname #1s\endcsname{\expandafter\strip\meaning\next}%
630 \endgroup}
631 }
632 % heading material for new notes, label, font, par mode default
633 \newcommand{\n@wnoteheadingmaterial}[3]{%
634 \csname literal#1\endcsname{%
635 \par\clearpage%
636 {\pagestyle{empty}\cleardoublepage}%
637 \thispagestyle{empty}%
638 }
639 \immediate\write\csname #1s\endcsname{%
640 \string\notesheadername=\string{#2\string}%
641 \string\pagestyle\string{endnotesstyle\string}%
642 }
643 \immediate\write\csname #1s\endcsname{%
644 \string\mark\string{3\string}%
645 \string\backmattersink%
646 \string\begin\string{center\string}%
647 \string{\string\normalfont \string}%
648 \backmatterheadingfont\ #3\string\string\end\string{center\string}%
649 }
650 \immediate\write\csname #1s\endcsname{\string\label\string{#3\string}}%
651 \immediate\write\csname #1s\endcsname{\string\normalfont\string\backmattertextfont}%
652 \immediate\write\csname #1s\endcsname{\string\paramodefalse}%
653 }

```

```

654 % new entry for table of contents
655 \newcommand{\n@wentryfortoc}[2]{%
656 \immediate\write\csname #1s\endcsname{\string\ifnotesincontentson}%
657 \immediate\write\csname #1s\endcsname{\string\addcontentsline\string{toc}\string}%
658 \string{chapter\string}\string{#2\string}}%
659 \immediate\write\csname #1s\endcsname{\string\fi}%
660 }
661 % new marginal reference kind
662 \newcommand{\n@wmargrefkind}[1]{%
663 \expandafter\newcommand\csname margref#1\endcsname[1]{%
664 \addtocounter{margrefnumber}{1}%
665 \immediate\write\csname #1s\endcsname{\makemargreflabel}%
666 \setmargref%
667 }
668 }
669 % new note counter
670 \newcommand{\n@wnotecounter}[1]{%
671 \expandafter\newcounter{enmr#1count}%
672 }
673 \newcommand{\n@wparaboolan}[1]{%
674 \expandafter\newif\csname if#1spara\endcsname}%
675 \newcommand{\n@wputmargref}[1]{%
676 \expandafter\csname margref#1\endcsname%
677 }
678 \newcommand{\n@wputnotenum}[1]{%
679 \expandafter\stepcounter{enmr#1count}%
680 \setcounter{enmrnotescratchcount}{\expandafter\value{enmr#1count}}%
681 \makeenmrendnotemarker%
682 \putenmrnotemarkerintext%
683 }
684 \newif\ifparamode \paramodefalse%
685 \newcommand{\n@wsetparamode}[1]{%
686 \expandafter\newcommand\csname #1sparamode\endcsname{%
687 \%csname #1sparamode\endcsname
688 \immediate\write\expandafter\csname #1s\endcsname{\string\paramodetrue}%
689 }
690 }
691 \newcommand{\enmrconditionalpar}{%
692 \ifparamode%
693 \% \if#1spara
694 \relax%
695 \else%
696 \par%
697 \fi%
698 }
699 \newcommand{\n@wnotecommand}[2]{%
700 \expandafter\newcommand\csname #1\endcsname[1]{%
701 \margrefmarker={#2:}%
702 \ifn@temarkinmargin%
703 \n@wputmargref{#1}%
704 \else%
705 \n@wputnotenum{#1}%
706 \fi%
707 \stepcounter{allendnotes}\label{not1\theallendnotes}%

```

```

708 \immediate\write\expandafter\csname #1s\endcsname{\checknoteheaders}%
709 \ifn@temarkinmargin%
710 \immediate\write\expandafter\csname #1s\endcsname{\string\enmrconditionalpar}%
711 %\immediate\write\expandafter\csname #1s\endcsname{\string\par}
712 \immediate\write\expandafter\csname #1s\endcsname{\string{\string\textbf\string{p.\
713 \string\pageref\string{not1\theallendnotes\string}\string}\string}}%
714 \else%
715 % \immediate\write\csname #1s\endcsname{\string\par}
716 \immediate\write\expandafter\csname #1s\endcsname{\string\enmrconditionalpar}%
717 \immediate\write\csname #1s\endcsname{%
718 \string\textsuperscript\string{\theenmrnotescratchcount\string}%
719 }%
720 \fi
721 \expandafter\csname literal#1\endcsname{~##1}%
722 }}
723 %%%%%%%%%%%
724 \newcommand{\definewnewnotetype}[6]{%
725 % 1. make new ifs
726 \m@kenewnoteif{#1}%
727 % 2 # new output stream and external file
728 \n@woutputstream{#1}{#2}%
729 % 4. set up a literalwrite command
730 \n@wliteralwrite{#1}%
731 % 5. First a blank page than a page in the empty pagestyle
732 % set the page style and running header
733 \n@wnoteheadingmaterial{#1}{#3}{#4}%
734 % 6. set up entry for table of contents
735 \n@wentryfortoc{#1}{#5}%
736 % % 7. set up a command to write the note
737 \n@wmargrefkind{#1}%
738 % % then a counter for the note kind
739 \n@wnotecounter{#1}
740 % % then a boolean for setting the notes in paragraph format
741 \n@wparaboolean{#1}
742 \n@wsetparamode{#1}
743 % % then the note command
744 \n@wnotecommand{#1}{#6}
745 % 8. make a reset command for setting by chapter
746 \expandafter\newcommand\csname reset#1s\endcsname[1]{%
747 \immediate\write\csname #1s\endcsname{\string\beginngroup}%
748 \immediate\write\csname #1s\endcsname{\string\goodbreak}%
749 \immediate\write\csname #1s\endcsname{\string\Needspace\string{5\string\baselineskip\string}}%
750 \immediate\write\csname #1s\endcsname{\string\styleforchapternotebegin}%
751 \immediate\write\csname #1s\endcsname{\the\chapternoteslinename\string\ \thechapter\string~}%
752 \iftitleinnotes%
753 \immediate\write\csname #1s\endcsname{\string\titleref\string{chapter\thechapter\string}}%
754 \fi%
755 \immediate\write\csname #1s\endcsname{\string\styleforchapternoteend}%
756 \immediate\write\csname #1s\endcsname{\string\nopagebreak}%
757 \immediate\write\csname #1s\endcsname{\string\endgroup}%
758 }
759 % 9. add this to resetchapter and setbychapter
760 %\appendtomacro{\notesbychapter}{\expandafter\csname reset#1s\endcsname}
761 \appendtomacro{\resetendnotes}{\expandafter\csname reset#1s\endcsname}%

```

```

762 % 10. command for closing the file and reading in the endnotes section
763 \expandafter\newcommand\csname put#1s\endcsname{%
764 \immediate\expandafter\closeout\csname #1s\endcsname%
765 \expandafter\input \jobname.#2%
766 }%
767 }

```

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