The **endnotes** package

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Based on the FOOTNOTES section of `LATEX.TEX` (version 2.09 – release of 19 April 1986), with "`footnote`" changed to "`endnote`" and "`fn`" changed to "`en`" (where appropriate), with all the `minipage` stuff pulled out, and with some small changes for the different operation of endnotes. Subsequently updated to follow the code for LaTeX 2_ε ⟨2000/06/01⟩.

Uses an extra external file, with `.ent` extension, to hold the text of the endnotes. This may be deleted after the run; a new version is generated each time—it doesn't require information collected from the previous run.

This code does not obey `\nofiles`. Perhaps it should.

To turn all the footnotes in your documents into endnotes, say

```
\let\footnote=\endnote
```

in your preamble, and then add something like

```
\newpage
\begingroup
\parindent 0pt
\parskip 2ex
\def\enotesize{\normalsize}
\theendnotes
\endgroup
```

as the last thing in your document. (But `\theendnotes` all by itself will work.)

1 Change log

JL – Modified to include `\addtoendnotes`. JL, 10/22/89.

JK – Modification by Jörg Knappen 25. 2. 1991:

Introduced `\notesname` in the spirit of international LaTeX. `\notesname` is set per default to be `{Notes}`, but can easily be redifined, e.g. for german language `\renewcommand{\notesname}{Anmerkungen}`

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DW – Modification by Dominik Wujastyk, London, 19 September 1991:

Moved the line
`\edef\@currentlabel{\csname p@endnote\endcsname\@theenmark}`
out of the definition of `\@endnotetext` and into the definition of `\@doanenote`
so that `\label` and `\ref` commands work correctly in endnotes. Otherwise,
the `\label` just pointed to the last section heading (or whatever) preceding the
`\theendnotes` command.

JL – Revised documentation and macros. 24 Sept 1991.

   – modified by `--bg` (B. Gaulle) 09/14/94 for:

      1) replace » (why a 8bit char here?) by `^` as a default.

      2) force `\catcode` of `>` to be 12 (implied by `\@doanenote`).

    by `--bg` again 03/22/95 for:

      3) reseting appropriate `catcode` of `>` in case it were used as an active
char before `\@endanenote` (was pointed by Ch. Pallier).

JL – John Lavagnino, 12 January 2003: a number of small updates:

Incorporate change suggested by Frank Mittelbach to `\enoteheading`, so that
first note has paragraph indentation. Frank's note:

> the idea of this code is to fix the problem that without it the first endnote
> after the heading will not be indented thus looking somewhat strange.
> Problem however is that since there is no indentation `\leavemode\par`
> will make an absolutely empty pargraph so that no baseline calculation
> is done. therefore `\vskip-\baselineskip` will put the first endnote
> directly below the heading without the usual spaccing. using `\mbox`
> insead will cure this defect.

Also incorporated Frank's suggestion to define `\makeenmark` and `\theenmark`,
so that users can change more of the layout without using `\makeatletter`.
`\makeenmark` defaults to `\@makeenmark`, so old code is still supported; and
`\theenmark` is just syntactic sugar for `\@theenmark`, which is still the real value
(and shouldn't be directly modified by user code).

Definition of `\ETC.` also dropped: surely nobody is still using TeX 2.992. (If
you are, you need to upgrade it or endnotes longer than 1000 characters will be
truncated.)

Update much of the code to track the current LaTeX 2_ε code more closely. Clean
up `\theendnotes`.

JL – John Lavagnino, 15 January 2003: fix my garbled version of Frank's updates.

2 Endnote commands

`\endnote{⟨note⟩}` : User command to insert a endnote.

`\endnote[⟨num⟩]{⟨note⟩}` : User command to insert a endnote numbered ⟨num⟩, where ⟨num⟩ is a number – 1, 2, etc. For example, if endnotes are numbered *, **, etc. within pages, then `\endnote[2]{...}` produces endnote '**'. This command does not step the endnote counter.

`\endnotemark[⟨num⟩]` : Command to produce just the endnote mark in the text, but no endnote. With no argument, it steps the endnote counter before generating the mark.

`\endnotetext[⟨num⟩]{⟨text⟩}` : Command to produce the endnote but no mark. `\endnote` is equivalent to `\endnotemark\endnotetext`.

`\addtoendnotes{⟨text⟩}` : Command to add text or commands to current endnotes file: for inserting headings, pagebreaks, and the like into endnotes sections. ⟨text⟩ a moving argument: `\protect` required for fragile commands.

3 Endnote user commands

Endnotes use the following parameters, similar to those relating to footnotes:

`\enotesize` : Size-changing command for endnotes.

`\theendnote` : In usual LATEX style, produces the endnote number.

`\theenmark` : Holds the current endnote's mark—e. g., † or '1' or 'a'. (You don't want to set this yourself, as it comes either from the autonumbering of notes or from the optional argument to `\endnote`. But you'll need to use it if you define your own `\makeenmark`.)

`\makeenmark` : A macro to generate the endnote marker from `\theenmark`. The default definition is `\hbox{$^\theenmark$}`.

`\@makeentext{⟨note⟩}` : Must produce the actual endnote, using `\theenmark` as the mark of the endnote and ⟨note⟩ as the text. It is called when effectively inside a `\parbox`, with `\hsize = \columnwidth`. For example, it might be as simple as `$^{\theenmark}$`␣⟨note⟩

4 Endnote pseudocode

```
\endnote{NOTE}  ==
 BEGIN
    \stepcounter{endnote}
    \@theenmark :=G eval (\theendnote)
    \@endnotemark
    \@endnotetext{NOTE}
 END


\endnote[NUM]{NOTE} ==
 BEGIN
    begingroup
       counter endnote :=L NUM
       \@theenmark :=G eval (\theendnote)
    endgroup
    \@endnotemark
    \@endnotetext{NOTE}
 END


\@endnotetext{NOTE} ==
 BEGIN
    write to \@enotes file: "\@doanenote{ENDNOTE MARK}"
    begingroup
       \next := NOTE
       set \newlinechar for \write to \space
       write to \@enotes file: \meaning\next
              (that is, "macro:->NOTE)
    endgroup
 END


\addtoendnotes{TEXT} ==
 BEGIN
    open endnotes file if not already open
    begingroup
       let \protect to \string
       set \newlinechar for \write to \space
       write TEXT to \@enotes file
    endgroup
 END


\endnotemark        ==
 BEGIN \stepcounter{endnote}
       \@theenmark :=G eval(\theendnote)
```

4

```
        \@endnotemark
  END

\endnotemark[NUM] ==
  BEGIN
      begingroup
        endnote counter :=L NUM
       \@theenmark :=G eval(\theendnote)
      endgroup
      \@endnotemark
  END

\@endnotemark ==
  BEGIN
   \leavevmode
   IF hmode THEN \@x@sf := \the\spacefactor FI
   \makeenmark            % put number in main text
   IF hmode THEN \spacefactor := \@x@sf FI
  END

\endnotetext       ==
   BEGIN \@theenmark :=G eval (\theendnote)
         \@endnotetext
   END

\endnotetext[NUM] ==
   BEGIN begingroup  counter endnote :=L NUM
                     \@theenmark :=G eval (\theendnote)
         endgroup
         \@endnotetext
   END
```