The **threeparttable** package[*]

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1 Outline

This package facilitates tables with titles (captions) and notes. The title and notes are given a width equal to the body of the table (a tabular environment). By itself, a `threeparttable` does not float, but you can put it in a `table` or a `table*` or some other floating environment. (This causes extra typing, but gives more flexibility.)

Inside a `threeparttable` there should be a caption, followed by a tabular environment (`tabular`, `tabular*`, `tabularx` or the like), possibly followed by a series of itemized *tablenotes*. (The caption may also go after the tabular environment.)

For example:

```
\begin{table}
  \begin{threeparttable}[b]
    \caption{...}
    \begin{tabular}...% or {tabular*}
      ...42\tnote{1}&....  ...
    \end{tabular}
    \begin{tablenotes}
    \item [1] the first note ...
    \end{tablenotes}
  \end{threeparttable}
\end{table}
```

The threeparttable environment takes an optional vertical-placement parameter, [t], [b], or [c]; the default is [t].

There is nothing automatic about the notes; you must specify the identifier in the body of the table ("`\tnote{a}`") and in the notes below the table ("`\item [a]...`"). The author chose this method because automatic numbering with `\footnote` would be very hard to use, particularly because many tables make repeated reference to a single note[1]. `\tnote` commands may be given in the caption too, and they will **not** appear in the list of tables.

There are several commands which should be redefined for customizing the behaviour of **threeparttable**, especially the table notes. Some options are provided for common variations of the table notes:

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[*]This documentation covers version 3.0 of the package, dated 2006-06-13

[†]Documentation put together by Robin Fairbairns

[1]If someone has a convenient, elegant, automatic system, the author promises to listen!

para Notes come one-after-another without line breaks

flushleft No hanging indentation on notes

online \item tag is printed normal size, not superscript

normal restores default formatting

These options can be given to the \usepackage command or to each individual
tablenotes environment. The [normal] option is intended to reverse the whole-
document options for a particular table; e.g.

```
\usepackage[para]{threeparttable}
... document rambles on ...
\begin{tablenotes}[normal,flushleft]
```

These few options will not give you every format you might want, so you may find
that you need to redefine one or more of the configuration commands. Note that
mixing options with redefinitions is unlikely to work smoothly: Please submit
your redefinitions to be used as options in future versions!

Configuration commands:

- \TPTminimum: command givining minimum caption width. Default 4em;
  change with \def or \renewcommand.

- \TPTrlap: A command with one argument, to make notes go out of the
  column, into the column separation (for right-aligning)

- \TPTtagStyle: Command with one argument to set appearance of the
  tag (number) in \tnote{tag}. It defaults to nil. It could be \textit.

- \tnote: Yes, you can redefine the \tnote command.

- \TPTnoteLabel: Command with one argument to format the item label
  in the tablenotes list (\makelabel); default uses \tnote.

- \TPTnoteSettings: A command to issue all the list-environment setup
  commands for the tablenotes.

- \tablenotes or \TPTdoTablenotes: Yes, you can redefine the whole
  tablenotes environment. (\tablenotes processes optional parameters,
  then invokes \TPTdoTablenotes; the [para] option replaces \TPTdoTablenotes).

For figures, there is an equivalent measuredfigure environment. It is fairly
fragile though, and should be used only for a single graphic above a single
caption.

Note that the \caption formatting is *not* adjusted by threeparttable. You
should use one of the caption-control packages to get captions that work well as
table titles. In truth, threeparttable sets \abovecaptionskip to zero for captions
above the table, but more complete changes are called for.