The \texttt{threeparttable} package\textsuperscript{*}

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March 5, 2010

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 \texttt{threeparttable} does not float, but you can put it in a \texttt{table}
or a \texttt{table*} or some other floating environment. (This causes extra typing, but
gives more flexibility.)

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

For example:

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

The \texttt{threeparttable} environment takes an optional vertical-placement param-
eter, [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 (“\texttt{\textbackslash note\{a\}”}) and in the notes below the table (“\texttt{\item [a] ...}”). The author chose this method because automatic numbering with
\texttt{\footnote} would be very hard to use, particularly because many tables make
repeated reference to a single note\textsuperscript{1}. \texttt{\textbackslash note} 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 \texttt{threeparttable}, especially the table notes. Some options are pro-
vided for common variations of the table notes:

\footnote{This documentation covers version 3.0 of the package, dated 2006-06-13}
\footnote{Documentation put together by Robin Fairbairns}
\footnote{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 \tablefootnotes 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{tablefootnotes}[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 giving minimum caption width. Default 4em; change with \def or \renewcommand.
- \TPTtrlap: 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 tablefootnotes list (\makelabel); default uses \tnote.
- \TPTnoteSettings: A command to issue all the list-environment setup commands for the tablefootnotes.
- \tablefootnotes or \TPTdoTablefootnotes: Yes, you can redefine the whole tablefootnotes environment. (\tablefootnotes processes optional parameters, then invokes \TPTdoTablefootnotes; the [para] option replaces \TPTdoTablefootnotes).

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.