The setspace Package*

Geoffrey Tobin Robin Fairbairns 2022/12/04

Usage:

\documentclass[...]{...}
\usepackage{setspace}

This package (originally based on the doublespace IATEX 2.09 style option (package), created by Stephen Page) provides commands and environments for doing double and one-and-a-half spacing based on the font size.

Single spacing is the default.

The commands \singlespacing, \onehalfspacing, and \doublespacing, are for use in the preamble to set the overall spacing for the document. If a different spacing is required then the \setstretch{baselinestretch} command can be used in the preamble to set the baselinestretch appropriately. The default spacing with this style option is single spacing.

Three environments, singlespace, onehalfspace, and doublespace, allow the spacing to be changed within the document. Both the onehalfspace and doublespace environments are intended to increase the spacing, so the onehalfspace environment should not be used in a double spaced document.

If an increased spacing different from one-and-a-half or double spacing is required then the spacing environment can be used. The **spacing** environment takes one argument which is the larger baselinestretch to use, e.g., \begin{spacing}{2.5}.

\footins is adjusted in the same wayas \parskip.

^{*}Currently maintained by David Carlisle and others at https://github.com/latex-package-repositories/setspace/issues

```
% Copyright (C) 2022 by LaTeX Team
% Copyright (C) 2011 by Robin Fairbairns (rf10@cam.ac.uk)
% Copyright (C) 2000 by Geoffrey Tobin
   This work may be distributed and/or modified under the conditions of the LaTeX Project Public License, either version 1.3 of this license or (at your option) any later version. The latest version of this license is in
% http://www.latex-project.org/lppl.txt
% and version 1.3 or later is part of all distributions of LaTeX
% version 2005/12/01 or later.
% This work has the LPPL maintenance status 'maintained'.
   The Current Maintainer of this work is Robin Fairbairns
% This work consists of the files setspace.sty and setspace-test.tex
%\fi
         @LaTeX-style-file{
                                               = "setspace.sty",
%%%
                version
                                                  "6.7b",
"4 December 2022",
%%%
               date
               supported
%%%
                                                 "yes",
"CTAN",
%%%
%%%
%%%
%%%
%%%
                archived
               keywords
codetable
docstring
                                                 "LATEX package, line spacing",
"ISO/ASCII",
"setspace.sty is a LaTeX (2e) package.
Comments and bug reports welcome!
                                                    This includes GDG's modification to Erica Harris'
setspace.sty. The main aspects of this modification deal with the definitions of
                                                     Non-literature was view the definitions of
Vsinglespacing \onehalfspacing, and
\doublespacing, (these are near the beginning of
the file). Primarily, these deal with adding
fontsize changes to guarantee that the new
                                                     baseline is properly defined and placed into action. The extra \vskip in the definition of
                                                     \singlespacing seems to make for a cleaner transition from multiple spacing back to single spacing. These did not appear warrranted for sthere in shorters.
                                                     spacing. These did
other size changes.
                                                     Modified by GDG on November 1, 1992, to allow
                                                     for use of New Font Selection Scheme
                                                    Modified by GDG on June 4, 1993, to correct
for spacing tokens in definition of \@setsize
Thanks to Kaja P. Christiansen <kaja@daimi.aau.dk>
for the fix!!
%%%
%%%
%%%
%%%
%%%
                                                    Modified by GDG on May 24, 1994, to change toggle definition from \selectfont to \@newbaseline.
%%%
%%%
                                                    Modified by GDG on May 25, 1994, to add definition of \everydisplay -- this part of the code was apparently written by Geoffrey Tobin on Thu 23 Jan 1992 and was provided by stanton@haas.berkeley.edu (Richard Stanton). This should help with some of the awkward math
%%%
%%%
%%%
%%%
%%%
%%%
%%%
                                                    placements in changing spacings.
%%%
                                                    Modified by GT on 23 Jan 1996, to correct
\everymath bug, first reported by Mario
Wolczko <mario@cs.man.ac.uk> on 9 June 1992.
Modified by GT on 23 Jan 1996, to correct
                                                     usage of comment characters in macro
                                                     definitions.
                                                    Modified by GT on 23 Jan 1996, to update (adjusted) \@xfloat definition for LaTeX2e. Bug report was courtesy of Kay Nettle.
                                                     Modified by GT on 24 Jan 1996, to update
                                                     (adjusted) \@footnotetext definition for
                                                     LaTeX2e, and to add an adjusted LaTeX2e

\@mpfootnotext definition for minipages.

Bug report was courtesy Kay Nettle.
                                                     Changed by GT on 6 Feb 1996, into a LaTeX2e
%%%
%%%
             Made more package-like by GT on 14 Feb 1996,
%%%
             by adding standard messages.
%%%
%%%
%%%
%%%
             GT replaced \@normalsize by \normalsize on 28 Sep 1996. This change was successively advised by:
%%%
                 Rowland J. "Bartlett
%%%
%%%
                  <R.J.Bartlett@bolton.ac.uk>
                 on Tue 6 Aug 96,
```

Ted Stern <stern@amath.washington.edu> on Wed 7 Aug 96,

%%% %%% %%% %%%

%%%

%%%

%%% %%% %%% %%% %%%

%%% %%%

1/1/1/

%%% %%% %%% %%% %%% %%%

1,1,1,

%%% %%% %%% %%%

%%% %%%

Michal Jaegermann <michal@ellpspace.math.ualberta.ca> on Fri 27 Sep 96.

> GT: Sat 28 Sep 1996: Added call to \setspace8size in \setstretch, as suggested by David Hull <hull@cs.uiuc.edu> on Wed 24 July 1996.

GT: Sat 28 Sep 1996: Pared \setspace@size mercilessly down to \@currsize, following advice given on Fri 27 Sep 1996 by Michal Jaegermann -michal@ellpspace.math.ualberta.ca>. Retained this macro for flexibility.

Code rearranged by GT, Sat 28 Sep 1996, to give greater prominence to \setstretch.

Also, GT changed (Sat 28 Sep 1996) many occurrences of \def to \newcommand, \renewcommand, or \newenvironment, as seemed appropriate.

GT, Tue 10 Dec 1996: Following a suggestion by Ted Stern, the 'single' spacing is now settable by the user. This is for slightly large fonts such as Lucida Bright.

GT, Wed 11 Dec 1996: For simplicity and maintainability, call \onehalfspacing in the onehalfspace environment, and \doublespacing in the doublespace environment.

GT, Wed 11 Dec 1996: Also deleted \setspace@size from \setstretch, as \@currsize suffices.

Modified by Brett Presnell (BP)
Spresnell@maths.anu.edu.au> on 21 Mar 1998
to add nodisplayskipstretch option, which
turns off the stretching of the space
before and after displays, which is often
excessive, particularly with doublespaced
documents. Also added the
setdisplayskipstretch command, which allows
the user to choose by how much to stretch
the space before and after displays
independently from the setting of
baselinestretch. This works regardless of
whether the nodisplayskipstretch option is
in effect.

CT, Wed 15 Apr 1998: Added the singlespace* environment requested by Mark Olsesn <olsesn@weber.me.queensu.ca> on Sat 24 May 1997 and Wed 18 June 1997. This is reported to give inproved vertical spacing around itemize and quote environments.

GT, Wed 15 Apr 1998: David Hull pointed out on Fri 12 Dec 1997 that the \belowdisplayskip line in the \everydisplay was mistyped. Now fixed.

GT, Thu 26 Nov 1998: Finally got round to fixing the absence of \begingroup from onehalfspace and doublespace environments. Thanks to: Bernd Schandl, Ron Smith, Himanshu Gohel, and Kevin Ruland, for bringing it to my long overdue attention.

GT, Tue 27 July 1999: On Saturday 24 July 1999, Alexander L. Wolf <alw@cs.colrado.edu>informed me that the \doublespace and \onehalfspace _macros_ are still at fault.

GT, Fri 3 March 2000: Today Stefano Lacaprara of Italy brought my attention to the need to extend the commands and macros to point sizes other than 10, 11 and 12. Since there's no general formula for the line stretch values in terms of point size, and they vary only slightly between 10, 11 and 12 pt, and furthermore the values were presumably optimised specifically for the Computer Modern fonts, i've chosen to use the 10 pt values as the generic defaults.

GT, Fri 1 December 2000: George Pearson requested package options for the three common spacings.

DPC Guard against \@ptsize not being defined https://github.com/rf-latex/setspace/issues/5

%%% %%%

```
% GT: Sat 28 Sep 1996: Widely using \newcommand, \renewcommand, and % \newenvironment, instead of \def.
%% FILE: setspace.sty in SYS2.TEX.PUB.ISULATEX.STYLES
%% AUTHOR: Erica M. S. Harris
                                                                                                                                                                                                                                                                           % ** Line space commands
%% DATE: April 1990
%% MOD: March 1991
                                                                                                                                                                                                                                                                            \newcommand{\setstretch}[1]{%
%%% Update to LaTeX (2e) : 6 Feb 1996.
%%% Description: LaTeX Document Package "setspace"
                                                                                                                                                                                                                                                                                  \def\baselinestretch{#1}%
\@currsize
%%%
%%% Usage:
                                                                                                                                                                                                                                                                           \% GT: Sat 28 Sep 1996: spacing commands and environments modified to \% use \setstretch instead of \baselinestretch.
%%%
%%%
                                                            \documentclass[...]{...}
                                                            \usepackage{setspace}
                                                                                                                                                                                                                                                                           % GT: Sat 28 Sep 1996: No, I don't know understand the line spacing
%%%
                                                                                                                                                                                                                                                                            % oi: Sat 26 Sep 1996: NO, I don't know understant the line spacing 
% algorithms! If someone (LaTeX team) can enlighten me as to the 
% general rule, please do! It would be very pleasant if setspace.sty 
% were suited for document font sizes other than 10, 11 and 12 pt.
%%
%%
%%
%%
%%
%%
%%
                                  Based on the doublespace option created by Stephen Page.
                                  This style option provides commands and environments for doing double and \, one-and-a-half spacing based on pt size.
                                                                                                                                                                                                                                                                                                Tue 10 Dec 1996: Instead of fixing singlespacing to exact unity,
                                                                                                                                                                                                                                                                          % dil." The 10 Dec 1990: Instead of Inxing Singlespacing to exact unity, allow user to redefine it (only slightly, please!) from its initial % value of unity, in the case when a particular font is slightly larger % or slightly smaller than its point size would indicate. This change % affects setspace's single spacing commands, and LaTeX's footnote and % float environments. The one and a half, double, and arbitrary % spacing commands are unaltered.
                                  Single spacing is the default.
                                 Three commands, \singlespacing, \onehalfspacing, and \doublespacing, are for use in the preamble to set the overall spacing for the document. If a different spacing is required then the \setstretch(\text{baselinestretch}) command can be used in the preamble to set the baselinestretch appropriately. The default
%%
%%
%%
%%
%%
%%
%%
                                                                                                                                                                                                                                                                            \newcommand{\SetSinglespace}[1]{%
                                   spacing with this style option is single spacing
                                                                                                                                                                                                                                                                                   \def\setspace@singlespace{#1}%
                                 Three environments, singlespace, onehalfspace, and doublespace, allow the spacing to be changed within the document. Both the onehalfspace and doublespace environments are intended to increase the spacing, so the onehalfspace environment should not be used in a double spaced document. If an increased spacing different from one-and-a-half or double spacing is required then the spacing environment can be used. The spacing environment takes one argument which is the larger baselinestretch to use,
% Here's the default single line spacing value.
\SetSinglespace{1}
                                                                                                                                                                                                                                                                                                    nand{\singlespacing}{%
                                                                                                                                                                                                                                                                                  \setstretch {\setspace@singlespace}% normally 1 \vskip \baselineskip % Correction for coming into singlespace
                                   e.g., \begin{spacing}{2.5}.
                                                                                                                                                                                                                                                                           \newcommand{\onehalfspacing}{%
  \setstretch(1.25)% default
% DPC 6.7b guard \@ptsize
  \ifx\@ptsize\@undefined\else
                                  \footins is adjusted the same as \parskip - appears to work. Lose stretch parts but don't consider that to be crucial
                                 Removed code for altering spacing before and after displayed equations - just looked too much.
                                                                                                                                                                                                                                                                                  \ifcase \@ptsize \relax % 10pt
%%
                                                                                                                                                                                                                                                                                        \setstretch {1.25}%
%% MODS:
%%
%%
%%
                                                                                                                                                                                                                                                                                 \or % 11pt
\setstretch {1.213}%
\or % 12pt
\setstretch {1.241}%
                                 Redefinition of \spacing and \endspacing for consistency with TeX 3.x inserted by George Greenwade. Modification provided by Philip Ross (ROSSQUK.AC.ABDN.BIOMED) and John Byrne via INFO-TeX.
%%
%% PLEASE REPORT ANY BUGS
%%
                                                                                                                                                                                                                                                                                  \fi
                                                                                                                                                                                                                                                                                  \fi
%%
               Old Documentation follows:
                                 ocumentation follows:

1. A new environment "singlespace" is provided, within which single spacing will apply.

JFL - changed so that it works in regular text and so that vertical space before and after is correctly computed

2. Double spacing is turned off within footnotes and floats (figures
                                                                                                                                                                                                                                                                            \newcommand{\doublespacing}{%
%%
%%
%%
%%
%%
%%
                                                                                                                                                                                                                                                                           \setstretch {1.667}% default 
% DPC 6.7b guard \@ptsize 
\ifx\@ptsize\@undefined\else
                                                                                                                                                                                                                                                                                   \ifcase \@ptsize \relax % 10pt
\setstretch {1.667}%
                                            and tables).
                                  3. Proper double spacing happens below tabular environments and in
                                                                                                                                                                                                                                                                                  \or % 11pt
                                 other places where LaTeX uses a strut.

4. Slightly more space is inserted before footnotes

5. JFL - fixes spacing before and after displayed m
%%
%%
%%
%%
                                                                                                                                                                                                                                                                                        \setstretch {1.618}%
                                                                                                                                                                                                                                                                                 \or % 12pt
\setstretch {1.655}%
\fi
%%
                                                                                                                                                                                                                                                                                  \fi
                 mods: Jean-Francois Lamy
%%
%%
                                            lamy@ai.toronto.edu
%%
                                            lamy@utai.uucp
                                                                                                                                                                                                                                                                           % ** Modification of the LaTeX command \@setsize.
%%
%%
%%
%%
%%
       POSSIBLE BUGS:
Increasing struts may possibly cause some other obscure part of formatting to fall over.
| begin(singlespace)begin(quote) produces the wrong spacing before
                                                                                                                                                                                                                                                                                    --Stretch the baseline BEFORE calculating the strut size. This improves spacing below tabular environments etc., probably...
Comments are welcomed.
                                                                                                                                                                                                                                                                          \% GT: Sun 29 Sep 1996: Question: Is this code anywhere near correct \% since this part of LaTeX (in, eg, latex.ltx) has been greatly changed?
 \% GT: Sun 29 Sep 1996: The meanings of the arguments to \@setsize \% appear to be (whatever these may signify) : \% current size; font baselineskip; ignored (!); and font size.
 \@ifundefined{NeedsTeXFormat}{% 2.09 version
 \def \filename {setspace.sty} \def \filedate {2022/12/04} \def \filedate {6.7b}
                                                                                                                                                                                                                                                                           % GT: Sun 29 Sep 1996: Note that \@setsize (in latest LaTeX, % \@setfontsize, which is called by \@setsize) seems to be the only % place in purely modern LaTeX where \@currsize is set, and ltxguide.cls % seems to be the only file in the LaTeX base distribution that uses it!
 \typeout {Package: 'setspace' \fileversion\space <\filedate>}
 }{% 2e version
 \NeedsTeXFormat {LaTeX2e}[1994/12/01]
 \ProvidesPackage {setspace}[2022/12/04 v6.7b set line spacing]
                                                                                                                                                                                                                                                                           % RF: 2011-12-19: only redefine \@setsize if under 2e; there have been
% reports of ltx209 packages failing when run with setspace under
% ltx2e, with this definition ...
\% BP: add nodisplayskipstretch option and \setdisplayskipstretch com
 \newcommand{\displayskipstretch}{\baselinestretch} \newcommand{\setdisplayskipstretch}[1]{\renewcommand{\displayskipstretch}{#1}}
                                                                                                                                                                                                                                                                            \@ifundefined{NeedsTeXFormat}{%
\def\@setsize#1#2#3#4{%
                                                                                                                                                                                                                                                                                  % Modified 1993.04.07--GDG per KPC
 \DeclareOption{nodisplayskipstretch}{\setdisplayskipstretch{1.0}}
                                                                                                                                                                                                                                                                                    @nomath#1%
                                                                                                                                                                                                                                                                                  \\data \data \\data \data \\data \data \\data \data \\data \\data \data \\data \\data \data \data \\data \data \data \\data \data \data \data \\data \data \data \data \data \data \data \\data \data 
\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremat
\ProcessOptions
                                                                                                                                                                                                                                                                                                             depth.3\baselineskir
```

```
width\z0}%
\skip\footins \baselinestretch\skip\footins
\normalbaselineskip\baselineskip#3#4}%
}{}%
 % ** Float and footnote adjustments to compensate for a change in the
  % ** main text's line spacing.
 %---Increase the space between last line of text and footnote rule %\skip\footins 20pt plus4pt minus4pt
 %---Reset baselinestretch within floats and footnotes.
\% GT: Tue 23 Jan 1996: This is where the conflict with the combination \% of the color package and the figure environment used to occur.
 \% GT: Sat 28 Sep 1996: \@xfloat is the only place where \normalsize \% is still used in setspace.sty !
  \let\latex@xfloat=\@xfloat
  % GT: Wed 24 Jan 1996: This footnote code was copied from LaTeX and % modified rather naively. It had to be brought up to date, not only % because of LaTeX's new color ability, but also because there had % been major changes to this code in LaTeX at least as far back as % March 1992.
  % Normal, bottom of the page, footnotes.
  % GT: Based HEAVILY on original LaTeX (2e) code. A standard hook would % be MUCH preferred, so that LaTeX's footnote implementation needn't be % copied each time it changes.
 % GT: The \protected@edef requires at least the December 1994 LaTeX.
% This is precisely the kind of VERSION DEPENDENCY situation that
% cannot (AFAIK) be avoided, because LaTeX (2e) LACKS appropriate
% standard hooks and/or context markers.
  \long\def\@footnotetevt#1{%
\reset@font\footnotesize
               \interlinepenalty\interfootnotelinepenalty
\interlinepenalty\interrootnotelinepenalty\splittopkip\footnotesep\splitmaxdepth\dp\strutbox\floatingpenalty\@MM\hize\columnvidth\@parboxrestore
% DPC 6.7b added from latex.ltx\def\@currentLouter\footnote\%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%\protected@edef)\protected@edef\@currentLabel(%
                    \csname p@footnote\endcsname\@thefnmark
\color@endgroup}}
% Minipage footnotes.
 \long\def\@mpfootnotetext#i{%
  \global\setbox\@mpfootins\vbox{%
  \unvbox \@mpfootins
  \GT: Next line added. Hook desired here!
  \def\baselinestretch {\setspace@singlespace}}\
               \reset@font\footnotesize
               \hsize\columnwidth
\hsize\columnwidth
\@parboxrestore
% DPC 6.7b added from latex.ltx
\def\@currentcounter(mpfootnote)%,
\protected@edef\@currentlabel{%}
\csname p@mpfootnote\endcsname\@
\color@begingroup
                                                                                                         .
ne\@thefnmark}%
                    \@makefntext{%
\rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%% DPC 6.7b added from latex.ltx
          \par
\color@endgroup}}
 % ** Line space environments.
% A single spaced quote (say) is done by surrounding singlespace with quote.
  \newenvironment{singlespace}{% \vskip \baselineskip \setstretch {\setspace@singlespace}% \vskip -\baselineskip
  }{%
       \par
 3
```

```
% GT (c/o Mark Olesen), Wed 15 April 1998.
 \newenvironment{singlespace*}{%
    \setstretch {\setspace@singlespace}% \vskip -\baselineskip
     ..
\vskip -0.5\baselineskip
     spacing, doublespace and onehalfspace all are meant to INCREASE the spacing (i.e. calling onehalfspace from within doublespace will not produce a graceful transition between spacings)
% Next two definitions fixed for consistency with TeX 3.x
% In order to use \newenvironment, while easily using same code for
% end of each environment, the code that used to be in \endspacing has
% been moved into a new (but internal) macro, \restore@spacing.
 \newcommand{\restore@spacing}{%
    \par
\vskip \parskip
\vskip \baselineskip
\endgroup
\vskip -\parskip
\vskip -\baselineskip
 \newenvironment{spacing}[1]{%
    Pwen.
\par
\begingroup
\setstretch {#1}%
                                                % moved from \endspacing by PGBR 29-1-91
     "
\restore@spacing
% one and a half spacing is 1.5 x pt size 
\newenvironment{onehalfspace}{% 
\begingroup 
\onehalfspacing
    \restore@spacing
% double spacing is 2 x pt size
\newenvironment{doublespace}{%
\begingroup
\doublespacing
}-{%
    \restore@spacing
\% GT: EMSH chose to omit display math part that follows. \% She wrote (see above) that the "altered spacing before and after displayed \% equations ... just looked too much".
% Fix up spacing before and after displayed math % (arraystretch seems to do a fine job for inside LaTeX displayed math, % since array and eqnarray seem to be affected as expected). % Changing baselinestretch and doing a font change also works if done here, % but then you have to change @setsize to remove the call to @nomath)
^{\prime\prime} GT: The \belowdisplayskip line was mistyped; now fixed, courtesy of \% David Hull.
% GT: Brett Parnell has addressed EMSH's concern by replacing
% \baselinestretch by \displayskipstretch in displays, as follows.
\endinput
 %%% EOF
```