The titling package*

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Abstract
The titling package provides control over the typesetting of the \maketitle
command. The values of \title, \author and \date are also retained.

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1 Introduction
The format for typesetting the \maketitle command is fixed in the standard
\LaTeX\ classes. The titling package provides some controls for modifying the appearance of the titling information presented via \maketitle.

This manual is typeset according to the conventions of the \LaTeX\ DOC-
STRIP utility which enables the automatic extraction of the \LaTeX\ macro source files [GMS94].

Section 2 describes the usage of the titling package and commented source code is in Section 3.

2 The titling package
The typeset format of the \maketitle command is virtually fixed within the \LaTeX\ standard classes. The titling package provides a set of formatting commands that can be used to modify the appearance of the titling information; that is, the contents of the \title, \author and \date commands. It also keeps the values of these commands so that they may be printed again later in the document.

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2.1 Commands and environments

The `titling` package provides a configurable `\maketitle` command. These commands control the typesetting of the document's `\maketitle` command. The `\title` is processed between the `\titlefont` and `\posttitle` commands; that is, like:

```
{\titlefont \title \posttitle}
```

and similarly for the `\author` and `\date` commands. The commands are initialised to mimic the normal result of `\maketitle` typesetting in the `article/report` classes. For example, the default definitions of the `\...title...` and `\...author...` commands are:

```
\newcommand{\titlefont}{\begin{center}\LARGE}
\newcommand{\posttitle}{\par\end{center}\vskip 0.5em}
\newcommand{\authorfont}{\begin{center}
             \large \lineskip 0.5em%
             \begin{tabular}\[t\]{c}}
\newcommand{\postauthor}{\end{tabular}\par\end{center}}
```

They can be renewed to obtain different effects, for instance removing the `center` environment from `\...title...` will result in the title being typeset as a normal paragraph.

For example, the default definitions of the `\...title...` and `\...author...` commands are:

```
\newcommand{\titlefont}{\begin{center}\LARGE}
\newcommand{\posttitle}{\par\end{center}\vskip 0.5em}
\newcommand{\authorfont}{\begin{center}
             \large \lineskip 0.5em%
             \begin{tabular}\[t\]{c}}
\newcommand{\postauthor}{\end{tabular}\par\end{center}}
```
... hand make footnotes for any \thanks commands ...

The \texttt{titling} package gives no assistance for doing this, but the \texttt{abstract} package provides a command that caters for the somewhat non-intuitive ... hand make footnotes ... aspect.

3 The package code

To try and avoid name clashes, all the internal commands include the string \texttt{@bs} (this code was initially part of the \texttt{abstract} package).

3.1 Preliminaries

Announce the name and version of the package, which requires \TeX\,2\ ECS.

\begin{verbatim}
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{titling}[2000/06/11 v1.0 maketitle typesetting]
\end{verbatim}

The original code for \texttt{\maketitle} is shown in Section A. Changes to \texttt{\maketitle} and friends are defined here.

\begin{verbatim}
\titlefont To provide some flexibility in the titling style of the document, user level commands
\posttitle \authorfont \postauthor \datefont \postdate are provided that can be changed to reconfigure the appearance resulting from
\maketitle. These are defined initially to mimic the normal \TeX\ style.
\fi\maketitle
\providecommand{\maketitle}{}
\end{verbatim}

\begin{verbatim}
\titlefont \posttitle \authorfont \postauthor \datefont \postdate
\maketitle The following is a modification of \texttt{\maketitle} as in the \texttt{article}, \texttt{report}, and \texttt{book}
\maketitle
\end{verbatim}
I use `\maketitle` to account for the cases where the main class does not have titling commands, and to ensure an existing `\maketitle` gets overridden.
\@bsmtitlempty is a helper macro to save some macro space. It empties some elements of \maketitle.

\newcommand{\@bsmtitlempty}{
\global\let\maketitle\relax
\global\let@maketitle\relax
\global\let\title\relax
\global\let\author\relax
\global\let\date\relax
\global\let\@thanks\@empty
\global\let\@title\@empty
\global\let\@author\@empty
\global\let\@date\@empty
}

\killtitle undefines the remaining macros of \maketitle.

\providecommand{\killtitle}{}
\renewcommand{\killtitle}{
\global\let\thanks\relax
\global\let\and\relax
\global\let\thetitle\relax
\global\let\theauthor\relax
\global\let\thedate\relax
\global\let\@thanks\@empty
\global\let\@title\@empty
\global\let\@author\@empty
\global\let\@date\@empty
}

The code is copied from the abstract package.

\appendiargdef The code is copied from the abstract package.

\appendiargdef{\title}{
\begingroup
\renewcommand{\thanks}[1]{}
\protected@xdef\thetitle{#1}
\endgroup}
\appendiargdef{\author}{
\begingroup
\renewcommand{\thanks}[1]{
\renewcommand{\and}{\unskip, }
\protected@xdef\theauthor{#1}
\endgroup}
\appendiargdef{\date}{
\begingroup
\renewcommand{\thanks}[1]{
\renewcommand{\and}{\unskip, }
\protected@xdef\thedate{#1}
\endgroup}

In order to make the \title, etc., values available for printing their definitions need extending (see Section A for their original definitions).
A Original code for making a title

These are the kernel commands (from \texttt{ltsect.dtx}) for the elements of \texttt{\maketitle}.

\begin{verbatim}
\def\title#1{\gdef\@title{#1}}
\def\author#1{\gdef\@author{#1}}
\def\date#1{\gdef\@date{#1}}
\def\thanks#1{\footnotemark
\protected@xdef\@thanks{\@thanks
\protect\footnotetext{\the\c@footnote}{#1}}%}
\let\@thanks\@empty
\def\and{% % \begin{tabular}
\end{tabular}%
\hskip 1em \@plus.17fil%
\begin{tabular}{c}}% % \end{tabular}
\end{verbatim}

This is the version of \texttt{\maketitle} and \texttt{@maketitle} from \texttt{classes.dtx}.

\begin{verbatim}
\if@titlepage
\newcommand{\maketitle}{\begin{titlepage}%
\let\footnotesize\small
\let\footnoterule\relax
\let \footnote \thanks
\null\vfil
\vskip 60\p@
\begin{center}{\LARGE \@title \par}%
\vskip 3em%
{\large
\lineskip .75em%
\begin{tabular}{t}{c}%
\end{tabular}\par}
\vskip 1.5em%
{\large \@date \par}%
\end{center}\par
\@thanks
\vfil\null
\end{titlepage}%
\setcounter{footnote}{0}%
\global\let\thanks\relax
\global\let\maketitle\relax
\end{verbatim}
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Numbers written in italic refer to the page where the corresponding entry is described, the ones underlined to the code line of the definition, the rest to the code lines where the entry is used.

Symbols

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