

# The `pracjournal` class \*

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## Abstract

For articles in The `PracTeX` Journal, <http://tug.org/pracjournal>.

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## 1 Introduction

The `pracjournal` `LATEX` document class is to be used for articles written for the The `PracTeX` Journal, <http://tug.org/pracjournal>. The source for the document class resides at <http://tug.org/pracjournal/dtx>. (WR: why isn't it at CTAN?)

## 2 Usage

To use this document class, proceed as per the `article` document class, with the following emendments.

- Refer to the sample document for context:  
<http://www.tug.org/PracJournal/dtx/pjsample.tex>.
- Issue a `\documentclass{pracjournal}` command in the preamble of your document. No class options are necessary.

---

\*This document corresponds to `pracjournal` v0.4e, dated 2005/08/22.

- This document class requires packages `mathpazo`, (or if not found, `palatino`), `textcomp`, `color`, and `hyperref`. These are all available in a reasonably up-to-date T<sub>E</sub>X distribution.

## 2.1 Formatting

- Page metrics should be correct for printing on either A4 or letter size paper. The type size is 12/15.5 Palatino.
- Except in exceptional circumstances, please refrain from using typefaces other than those defined by this class.

## 2.2 Author/article metadata

All author and article information must be defined before the `\maketitle` command. Preferably even before `\begin{document}` would be good.

- The `\author`, `\title`, and `\abstract` commands are used to define those pieces of metadata about the article, and are mandatory.
  - Note that the `\abstract` is a plain old command, *not* an environment.
  - Should you have a reason for not having an abstract, this may be signified by declaring `\noabstract` instead.
- It is optional to specify a copyright and/or license declaration, to be typeset in the footer of the first page, with the `\license` command.<sup>1</sup>
- Additional author information may be specified, to be typeset appropriately, with the following commands: `\email`, `\website`, and `\address`.
  - If the `switcheml` package is installed somewhere that T<sub>E</sub>X will find it, it is loaded for the purpose of obfuscating the typeset email address. This is done to prevent harvesting by spammers, but if the package cannot be found the email address will be typeset as a hyperlink.
  - Should you wish to typeset your email address as a hyperlink (that is, theoretically harvestable by spammers) despite having `switcheml` installed, you may simply include the command `\hyperlinkemail` anywhere before `\maketitle`.

### 2.2.1 Adding more author/article information

As previously mentioned, this class provides the `\email`, `\website`, and `\address` macros for typesetting that information in the header block. These commands are defined in the source code of the class file with the following:<sup>2</sup>

```
\addinfo{Address}
\addinfo[\typesetemail]{Email}
\addinfo[\url]{Website}
```

<sup>1</sup>The `\TPJcopyright` command, which used to provide this functionality is still provided for backwards compatibility.

<sup>2</sup>`\typesetemail` is an internal command defined by either `\hyperlinkemail` or `\obfuscateemail`.

Additional blocks may be added on a per-article basis in the same manner.

To be specific, the `\addinfo` command takes one mandatory argument, which is the title of the item to be added to the list, and one optional argument, which is used to define the formatting of the block.

This command will then define the macro used to input the additional information by taking the lowercase of the title of the information and turning it into a  $\TeX$  macro. This creates some obvious limitations on the name of the information blocks that can be created—if this upsets you, write me.

If you don't like the ordering of the information blocks or you wish to edit the formatting for some reason, the `\clearinfo` command allows you to start fresh and redefine the address, email, and website information blocks however you may wish.

## 2.3 TPJ internal commands

- Two commands are to be used at the direction of the  $\Prac\TeX$  production team: `\TPJrevision` and `\TPJissue`. These commands typeset information in the header of the first page relating to the revision number (or date) of the article and the issue number of the journal.

Below this information is a hyperlink to send email comments to the relevant mailing list. If `\TPJissue` is declared, then the article is presumed to be in its publication form; emails are directed to the public `pracjournal@tug.org` mailing list. If the `\TPJissue` has *not* been specified, then the article is still in its revision stage and the link directs emails to the closed  $\Prac\TeX$  journal production mailing list, intended for article reviewers only.

- This document class creates a file `_rev.tex` in the current directory (if a `\TPJrevision` statement is present) and reads a file `_iss.tex`, if present. Please keep a separate directory for each article you develop for TPJ.

## 2.4 Logos

The following logos and abbreviations are defined for your convenience: `\TeX`, `\LaTeX`, `\LaTeXe`, `\BibTeX`, `\MF`, `\MP` (METAFONT and METAPOST, typeset in their own font), `\ConTeXt`, `\pdfTeX`, `\pdfLaTeX`, `\PracTeX`, `\TPJ` ('The  $\Prac\TeX$  Journal').

## 3 History

The first revision of this class was written by Karl Berry. KB: Gratefully based on the `dtxtut` skeleton.

Revised by Arthur Ogawa, 2004/01/03, to include new features, per Lance Carnes, as follows:

1. Define an `\articleID` macro which typesets the article identification in a block somewhere on the first page of the article, and which can be used to identify the article/revision date for reader comments. E.g. if this appears in the article source file:

```
\author{A.U. Thor}
```

```

\title{Pracjournal Sample}
\TPJissue{TPJ Vol 1 No 1, 2005-1-15}
\TPJrevision{2005-2-12}%
\TPJcopyright{\textcopyright\ 2005 TeX Users Group}

```

it will become a block of text typeset on the first page of the article. See e.g. <http://www.ams.org/bull/2004-41-04/S0273-0979-04-01032-8/S0273-0979-04-01032-8.pdf>

2. Write the information from the argument of the `\articleID` macro into a file called `_id.tex`. Put this file in the same directory as the source file, and overwrite any previous files of the same name.
3. Define a `\TPJcopyright` macro which will print a copyright notice at the bottom of the first page. E.g. `\TPJcopyright{2005 TeX Users Group}` will produce “©2005 TeX Users Group” in the page footer of the title page.
4. The page measures should work with both Letter and A4 paper sizes.

Revised again by Will Robertson, mid-2005, to implement a couple of extra things.

- The `\maketitle` has been redesigned with additional author information. `\email`, `\address`, `\website`, and `\abstract` are now also supported. Further information may be added in the same style.
- Appropriate some various style files to remove dependancies on `mflogo` and `texnames`. In addition, the various `\TeX` logos were tuned to look better in the Palatino typeface.
- The `hyperref` package is loaded and set up to colour various hyperlinks.
- Document divisions have been un-boldened, just for a change.

## 4 Implementation

### 4.1 Base class and default options

Use  $\LaTeX$ 's `article` class, but at a bigger default type size.

KB: 12pt seems a little too big, 11pt seems a little too small. Implementing 11.5pt is not obvious.

If the document instance calls for options that conflict with the following choices, then the document wins. However our default option list is not the same as those of `article.cls`.

```

1 \let\ExecuteOptions@ltx\ExecuteOptions
2 \def\ExecuteOptions#1{%
3 \ExecuteOptions@ltx{letterpaper,12pt,oneside,onecolumn,final}%
4 }%
5 \LoadClassWithOptions{article}
6 \let\ExecuteOptions\ExecuteOptions@ltx

```

## 4.2 Metrics

Default leading (from `classes.dtx`) for 11pt is 13.6pt leading, for 12pt is 14.5pt. We want more—this factor gives us 12pt type on 15.5pt leading.

```
7 \linespread{1.069}
```

Change the text width to something that works for both A4 and Letter paper, as well as possible.

xx The vertical dimensions need to be changed as well, perhaps for a 9in text height, taking account of the headline and footline.

```
8 \setlength\textwidth{432pt}
9 \setlength\oddsidemargin{18pt}% xx depend on letter/a4
10 \setlength\evensidemargin{18pt}
```

## 4.3 Package loading

Palatino, including math (sc option for true small caps, not in TL 2003). Try for `mathpazo`; if not available use `palatino`.

The `textcomp` package is loaded in order to provide a nice looking copyright logo, amongst other things.

```
11 \IfFileExists{mathpazo.sty}
12     {\RequirePackage{mathpazo}}
13     {\RequirePackage{palatino}}
14 \RequirePackage{textcomp}
```

`hyperref` is used for creating live hyperlinks, as well as providing `\url` for typesetting URLs easily. All hyperlinks are coloured in a dark shade of blue.

```
15 \RequirePackage{color,hyperref}
16 \definecolor{refcolor}{rgb}{0,0.2,0.6}
17 \hypersetup{bookmarks,colorlinks,breaklinks,
18     linkcolor=refcolor,citecolor=refcolor,
19     filecolor=refcolor,urlcolor=refcolor}
```

If the `switcheml` package is installed in the author's system, use it to obfuscate their email address by default. Otherwise, just use a hyperlink. The commands to do this are defined in a later section.

An author may specify `\hyperlinkemail` explicitly should they not care to obfuscate their email address even with the `switcheml` package installed.

```
20 \IfFileExists{switcheml.sty}
21     {\RequirePackage{switcheml}
22     \AtBeginDocument{\ifx@undefined\typesetemail}{\obfuscateemail}{}}
23     {\AtBeginDocument{\ifx@undefined\typesetemail}{\hyperlinkemail}{}}
```

## 4.4 Amendments from article

`\maketitle` Printing the date of the last  $\TeX$  run in the title block does not seem warranted—if someone reprocesses the document with no changes, we wouldn't want the date to change.

xx use `rcs.sty` or something?  
xx include bibtex id?

```
24 \renewcommand\maketitle{\par
25 \iftpj@noabstract\else
```

```

26 \ifx@undefined{\tpj@info@Abstract}
27   {\ClassError{pracjourn}
28     {Please specify an \string\abstract\space before \string\maketitle}
29     {It is a PracTeX Journal requirement to include an abstract. \MessageBreak
30       \MessageBreak
31       If you have exceptional reasons for not having one in this \MessageBreak
32       article, write \string\noabstract\space somewhere before \string\maketitle.}}{}
33 \fi
34 \begingroup
35   \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
36   \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
37   \long\def\@makefntext##1{\parindent 1em\noindent
38     \hb@xt@1.8em{%
39       \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
40   \newpage
41   \global\@topnum\z@ % Prevents figures from going at top of page.
42   \@maketitle
43   \thispagestyle{titlepage}\@thanks
44 \endgroup
45 \setcounter{footnote}{0}%
46 \global\let\thanks\relax
47 \global\let\maketitle\relax
48 \global\let\@maketitle\relax
49 % \global\let\@thanks\empty
50 % \global\let\@author\empty
51 % \global\let\@date\empty
52 % \global\let\@title\empty
53 \global\let\title\relax
54 \global\let\author\relax
55 \global\let\date\relax
56 \global\let\and\relax
57 }%

```

\@maketitle

```

58 \def\@maketitle{%
59   \newpage
60   \null
61   \write@ID@aux\read@issue
62   \vspace{1.5em}
63   \begin{flushleft}
64     \let\footnote\thanks
65     \begingroup\LARGE \@title \par\endgroup
66     \vspace{2ex}%
67     \begingroup\large \@author \par\endgroup
68   \end{flushleft}

```

This is where the extra author information is typeset. As various pieces of information are defined, they fill up the `\tpj@optional@author@info` macro, which is subsequently used here as per the definition of the author.

```

69 \tpj@optional@author@info
70 \iftpj@noabstract\else
71   \vspace{2ex}%
72   \tpj@info@container{Abstract}
73 \fi}

```

#### 4.4.1 Formatting changes

Remove bold from the all the section headings, just for something a little different. This is verbatim from `article.cls` with a bunch of `\bfseries`'s omitted.

```
74 \renewcommand\section{\@startsection {section}{1}{\z@}%
75                                     {-3.5ex \@plus -1ex \@minus -.2ex}%
76                                     {2.3ex \@plus .2ex}%
77                                     {\normalfont\Large}}
78 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
79                                     {-3.25ex\@plus -1ex \@minus -.2ex}%
80                                     {1.5ex \@plus .2ex}%
81                                     {\normalfont\large}}
82 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
83                                     {-3.25ex\@plus -1ex \@minus -.2ex}%
84                                     {1.5ex \@plus .2ex}%
85                                     {\normalfont\normalsize}}
86 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
87                                     {3.25ex \@plus 1ex \@minus .2ex}%
88                                     {-1em}%
89                                     {\normalfont\normalsize\itshape}}
90 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
91                                     {3.25ex \@plus 1ex \@minus .2ex}%
92                                     {-1em}%
93                                     {\normalfont\normalsize\itshape}}
```

#### 4.5 TPJ additions

##### 4.5.1 Boolean logic

```
\@ifx@empty The following three procedures implement part of the boolean logic facility, an
\@ifx@undefined expansion-only calculating engine.
\@ifeof
94 \def\@ifx@empty#1{% Implicit #2#3
95   \ifx#1\@empty
96     \expandafter\@firstoftwo
97   \else
98     \expandafter\@secondoftwo
99   \fi}%
100 \def\@ifx@undefined#1{% Implicit #2#3
101   \ifx#1\@undefined
102     \expandafter\@firstoftwo
103   \else
104     \expandafter\@secondoftwo
105   \fi}%
106 \def\@ifeof#1{% Implicit #2#3
107   \ifeof#1
108     \expandafter\@firstoftwo
109   \else
110     \expandafter\@secondoftwo
111   \fi}%
112 \def\boolean@true#1{\let#1\@firstoftwo}%
113 \def\boolean@false#1{\let#1\@secondoftwo}%
```

## 4.5.2 Titlepage pagestyle

<code>\ps@titlepage</code>	The <code>\ps@titlepage</code> procedure effects a page style called <code>titlepage</code> , which applies only to the title page. The <code>\titlepage@head</code> procedure sets type in the page header, <code>\titlepage@foot</code> in the page footer.
	<pre> 114 \def\ps@titlepage{% 115   \def\@oddhead{\titlepage@head\hfil}% 116   \let\@evenhead\@oddhead 117   \def\@oddfoot{\hfil\titlepage@foot}% 118   \let\@evenfoot\@oddfoot}% </pre>
<code>\titlepage@head</code>	This is the text block before the article title. Changes depending on the production stage, and includes an email link to send comments on the article. In the review phase, this links to <code>pracjourn-prod@tug.org</code> , the closed <code>PracTeX</code> production mailing list. Once published, the link points at <code>pracjourn@tug.org</code> for public discussion.
	<pre> 119 \def\titlepage@head{\small 120   \vtop{% 121     \baselineskip1.2em 122     \halign{% 123       ##\unskip\hfil\cr 124       \relax\@ifx@empty\@TPJissue{For submission to \TPJ} 125         {\TPJ\cr\@TPJissue}\cr 126       \relax\@ifx@empty\@TPJissue 127         {\@ifx@empty\@TPJrevision 128           {Draft of \today} 129           {Article revision \@TPJrevision 130 %             \cr 131 %             \tpj@compose@mailto 132 %               {pracjourn-prod@tug.org} 133 %               {Review comments on \@author's article, rev. \@TPJrevision} 134 %               {Send review comments to the \PracTeX\ production mailing list} 135           }\cr 136         }% 137       {\@ifx@empty\@TPJrevision 138         {\ClassError{pracjourn} 139           {\string\TPJrevision\space must be defined if 140            \string\TPJissue\space is also} 141           {It is a requirement for PracTeX Journal articles to contain\MessageBreak 142            revision information for version tracking. Please input this\MessageBreak 143            information, or omit \protect\TPJissue.}} 144         {Article revision \@TPJrevision} 145       \cr 146 %       \tpj@compose@mailto{pracjourn@tug.org} 147 %         {Comments on \@author's article} 148 %         {Comment on this article} 149       \cr}}}}% </pre>
<code>\titlepage@foot</code>	To typeset the optional copyright declaration by the author.

Email subjects should look like "comment on 2005-2-robertson Rev. 2005-03-25" for consistency with the online links that serve the same purpose. For now, too bad.



```

150 \def\tITLEPAGE@foot{%
151   \@ifx@empty\@TPJcopyright{}{%
152     \lower\baselineskip\hbox{\vbox{%
153       \raggedleft\small\@TPJcopyright}}}%

```

### 4.5.3 Additional author/article information

`\addinfo` This command defines a new block of information to be typeset in the title block of the document. For every new item, a new `\tpj@info@container` is appended to `\tpj@optional@author@info`, which is called in `\@maketitle`.

```

154 \newcommand\addinfo[2] [] {%
155   \tpj@define@info@block[#1]{#2}%
156   \g@addto@macro\tpj@optional@author@info{\tpj@info@container[#1]{#2}}

```

`\tpj@define@info@block` This macro actually does the work of `\addinfo`. It takes the name of a piece of info to be typeset in the title block of the article. The name of the info is lowercased to create a control sequence for the user to input this data. E.g., `\addinfoAbstract` will create a control sequence `\abstract` which saves its argument inside `\tpj@info@Abstract`.

All commands are defined `\long` so that paragraphs are allowed. This is much easier than `\begin{abstract}... \end{abstract}` contortions (cf. `ltugboat.cls`).

```

157 \newcommand\tpj@define@info@block[2] [] {%
158   \lowercase{\expandafter\long\expandafter\def\csname#2\endcsname}%
159   ##1{\expandafter\def\csname tpj@info@#2\endcsname{##1}}

```

`\clearinfo` If the `\tpj@optional@author@info` macro needs to be cleared for some reason,<sup>3</sup> the `\clearinfo` command will come quite in handy. This command is also used to initialise the macro in question.

```

160 \newcommand\clearinfo{\let\tpj@optional@author@info\@empty}
161 \clearinfo

```

**Optional fields** These are the default information blocks. `\typesetemail` is defined by one of either `\hyperlinkemail` or `\obfuscateemail`.

```

162 \addinfo{Address}
163 \addinfo[\typesetemail]{Email}
164 \addinfo[\url]{Website}

```

**Abstract** We bypass `\addinfo` so that the abstract info block is not added to the `\tpj@optional@author@info` macro.

The abstract block itself is called directly in `\@maketitle`.

```

165 \tpj@define@info@block{Abstract}

```

`\noabstract` However, the abstract may indeed be suppressed if that is the author's wish.

```

166 \newif\iftpj@noabstract
167 \newcommand\noabstract{\tpj@noabstracttrue}

```

---

<sup>3</sup>The only reason I can think of to do this is to re-arrange the order of the items in the title block of the article.

`\endabstract` If an abstract environment is used, give an error. Maybe I should just support the environment, instead.

```

168 \def\endabstract{%
169   \ClassError{pracjourn}
170   {Please input the abstract with \string\abstract{...}, before \string\maketitle}
171   {Instead of the \string\begin{abstract}...\string\end{abstract} \MessageBreak
172     environment, use \string\abstract{...}. Paragraphs are allowed!\MessageBreak
173                                           \MessageBreak
174   Because the abstract is typeset with the title block, \MessageBreak
175   it must be input before the \string\maketitle\space command.}}
```

`\TPJissue` The three user-level commands `\TPJissue`, `\TPJrevision`, and `\TPJcopyright` specify the issue, the revision, and the copyright information of the document.

`\TPJrevision` Since these commands are like `\author` and `\title`, one might wish to disable them upon executing the `\titlepage` procedure. But we do not.

`\TPJcopyright` If the document has a `\TPJrevision` statement, the title page header contains “Rev. YY-MM-DD”, otherwise it bears the current date.

If the document lacks a `\TPJcopyright` statement, the title page footer contains nothing.

```

176 \newcommand{\TPJissue}[1]{\gdef\@TPJissue{#1}}%
177 \newcommand{\TPJrevision}[1]{\gdef\@TPJrevision{#1}}%
178 \newcommand{\TPJcopyright}[1]{\gdef\@TPJcopyright{#1}}%
179 \let\@TPJissue\@empty
180 \let\@TPJrevision\@empty
181 \let\@TPJcopyright\@empty
```

`\license` For consistency with the other user commands of this class, `\license` is defined as an alias of `\TPJcopyright`.

```
182 \let\license\TPJcopyright
```

`\tpj@info@container` This is the macro that typesets the optional author info for fields defined as above. It splits it all up in minipages, in a smaller font and with more compressed leading than the main document text. It takes the name of the info as a mandatory argument, which is used to typeset the info label as well as retrieve the actual data from the `\tpj@info@#1` macro (see `\addinfo`).

An optional argument is used as a hook to typeset the info data in the equivalent form `#1{#2}`.

For example, to typeset the info defined by the author in the `\abstract` (recall, this is set up due to a corresponding `\addinfo{Abstract}`—see above), input `\tpj@info@container{Abstract}`. To typeset it, say, in italics, it would be possible to write `\tpj@info@container[\textit]{Abstract}`.

```
183 \newcommand\tpj@info@container[2] []{%
```

After `\maketitle`, redefine the info command to return an error.

```

184   \lowercase{\expandafter\gdef\csname#2\endcsname}%
185   {\ClassError{pracjourn}{#2 must be defined BEFORE \string\maketitle}{}}
```

Now, we typeset the info block, but only if the info has actually been specified by the author.

```

186   \expandafter\ifx\csname tpj@info@#2\endcsname\relax\else
187     \noindent\null\hfill\small
```

On the left, right-aligned sans serif item label, e.g., ‘Abstract’:

```
188 \begin{minipage}[t]{0.1\textwidth}
189 \noindent\hfill\sffamily#2%
190 \end{minipage}\hfill
```

On the right, the content, defined by, e.g., `\abstract`:

```
191 \begin{minipage}[t]{0.85\textwidth}
192 \linespread{1.0}\selectfont
193 \setlength\parindent{1.5em}%
194 \noindent\ignorespaces
195 \expandafter#1\expandafter{\csname tpj@info@#2\endcsname}
196 \end{minipage}\par
197 \fi}
```

#### 4.5.4 Email & hyperlink macros

`\typesetemail` We define the macro `\typesetemail` to be used for self-explanatory purposes. The class contains methods to define it in one of two ways.

`\hyperlinkemail` The `\hyperlinkemail` command defines `\typesetemail` to use the `hyperref` package’s facilities to create a hyperlink email address in the output document.

`\obfuscateemail` The `\obfuscateemail` command defines `\typesetemail` to use the `switcheml` package’s facilities to create a machine-obfuscated email address in the output document.<sup>4</sup>

```
198 \newcommand\obfuscateemail{%
199 \def\typesetemail##1{\ttfamily\switchemail{##1}}}
200 \newcommand\hyperlinkemail{%
201 \def\typesetemail##1{\ttfamily\tpj@compose@mailto{##1}{Re: PracTeX Journal article}{##1}}}
```

`\tpj@compose@mailto` This macro takes three arguments to typeset a mailto email hyperlink. The `#1` takes the email address, `#2` takes the default subject of the email, and `#3` is the text to appear in the output as the hyperlink.

All spaces in the hyperlink source are converted to `%20` to accommodate Mac OS X’s PDF reader; this isn’t necessary for Adobe Reader. Oh well.

```
202 \newcommand\tpj@compose@mailto[3]{%
203 \edef\@tempa{mailto:#1?subject=#2 }%
204 \edef\@tempb{\expandafter\html@spaces\@tempa\@empty}%
205 \href{\@tempb}{#3}}
```

`\html@spaces` This macro takes a string and (hopefully) converts all spaces (or is it all whitespace?) to `%20`, creating a string that can be used for encoding the subject of the email comments hyperlink in `\titlepage@head`. Using `\catcode`, we remove the comment ability of the `%` character, making it a normal letter. (This code was heavily influenced by the L<sup>A</sup>T<sub>E</sub>X kernel’s `\zap@space` command.)

```
206 \catcode'\%=11
207 \def\html@spaces#1 #2{#1%20\ifx#2\@empty\else\expandafter\html@spaces\fi#2}
208 \catcode'\%=14
```

<sup>4</sup>The `switcheml` package defines, among a couple of other things, a macro for typesetting email addresses that obfuscates their representation in the PDF file, ensuring protection against harvesting email addresses from web-public PDF documents.

### 4.5.5 Logos

The `texnames` and `mflogo` packages have been incorporated into the class in order to remove the dependence on external packages and to tune the logos for Palatino. First, here are the relevant parts<sup>5</sup> of `texnames.sty`, v1.10, tuned for Palatino and adapted to use `\textsc` where appropriate:

```
209 \def\TeX{T\kern-.15em\lower.5ex\hbox{E}\kern-.07em X\spacefactor1000\relax}
210 \def\LaTeX{L\kern-.35em\raise.3ex\hbox{\textsc a}\kern-.15em\TeX}
211 \def\LaTeXe{\LaTeX2$_{\textstyle\varepsilon}$}
212 \def\BibTeX{B{\textsc i}\kern-.025em \textsc b}\kern-.08em\TeX}
```

And now `mflogo.sty`, unchanged in its entirety:

```
213 \DeclareRobustCommand\logofamily{%
214   \not@math@alphabet\logofamily\relax
215   \fontencoding{U}\fontfamily{logo}\selectfont}
216 \DeclareTextFontCommand{\textlogo}{\logofamily}
217 \def\MF{\textlogo{META}\@dischyph\textlogo{FONT}\@}
218 \def\MP{\textlogo{META}\@dischyph\textlogo{POST}\@}
```

Now some new definitions. Despite the fact that it makes no difference with the main font used for this class, I define `\pdfTeX` with some italic correction to set a good precedent. Compare Computer Modern with and without: `pdfTeX` vs. `pdfTeX`; I find the former more attractive because the ascender of the ‘f’ doesn’t collide.

```
219 \newcommand\ConTeXt{C\kern-.03em on\-\kern-.10em\TeX\kern-0.04em t}%
220 \newcommand\pdfTeX{pdf\/\TeX}
221 \newcommand\pdfLaTeX{pdf\/\LaTeX}
222 \newcommand\PracTeX{Prac\kern-0.08em\TeX}
223 \newcommand\TPJ{The \PracTeX\ Journal}
```

### 4.5.6 Version tracking

`\write@ID@aux` Establish an auxiliary file, `_id.tex`, for TPJ tracking information.

```
224 \def\write@ID@aux{%
225   \@ifx@empty\@TPJrevision{ }{%
226     \begingroup
227     \let\thanks\@gobble
228     \immediate\openout\ID@aux _rev.tex
229     % \immediate\write\ID@aux{\@percentchar\space
230     %   This file generated by the pracjourn document class}%
231     \immediate\write\ID@aux{\@TPJrevision}%
232     \immediate\closeout\ID@aux
233   \endgroup
234 }%
235 }%
236 \newwrite\ID@aux
```

`\read@iss@aux` FIXME: Check if `\@TPJissue` has been assigned already.

```
237 \def\read@issue{%
238   \openin\@inputcheck _iss.tex
239   \@ifeof\@inputcheck{ }{%
240     \read\@inputcheck to\@TPJissue
```

---

<sup>5</sup>No-one still refers to AMSTeX and SLITeX and so on, right?

```
241 \global\let\@TPJissue\@TPJissue}%
242 \closein\@inputcheck}
```

#### 4.5.7 Miscellaneous

`\set@pdfpage` The PDF<sub>T</sub>E<sub>X</sub> parameters `\pdfpagewidth` and `\pdfpageheight` determine the CropBox/BleedBox/TrimBox/ArtBox. The procedure `\setpdfpage` sets them to the values of the L<sup>A</sup>T<sub>E</sub>X `\paperwidth` and `\paperheight`. If PDF<sub>T</sub>E<sub>X</sub> is not the engine, nothing is done.

We arrange for the procedure to be executed at Begin Document time.

```
243 \def\set@pdfpage{%
244 \ifx@undefined\pdfoutput{ }{%
245 \pdfpagewidth =\paperwidth
246 \pdfpageheight=\paperheight
247 \relax}}
248 \AtBeginDocument{\set@pdfpage}
```

## Change History

v0.0	General: KB: Initial version . . . . .	1	v0.4b	<code>\html@spaces</code> : Implemented to overcome the mailto problems in Mac OS X's PDF reader. . .	11
v0.2	General: KB: Palatino, no date printing . . . . .	1	<code>\maketitle</code> : WR: added check for an abstract . . . . .	5	
v0.3	General: AO: Add <code>\TPJissue</code> , <code>\TPJrevision</code> , <code>\TPJcopyright</code> .	1	WR: removed some twocolumn conditional code. . . . .	5	
	AO: Override the default option list of <code>article.cls</code> . . . . .	4	<code>\titlepage@head</code> : WR: Added hyperref link to email article comments for both reviewers and readers. . . . .	8	
	AO: rewrite using <code>\IfFileExists</code> idiom. . . . .	5	WR: More conditional text. . . . .	8	
	AO: Rewrite using L <sup>A</sup> T <sub>E</sub> X 2 <sub>ε</sub> idioms . . . . .	1	<code>\tpj@compose@mailto</code> : Implemented; creates a workable mailto hyperlink. . . . .	11	
	<code>\maketitle</code> : AO: <code>\thispagestyletitlepage</code> . Do not empty out <code>\@author</code> , <code>\@title</code> , etc. . . . .	5	v0.4c	<code>\titlepage@head</code> : WR: Added error check for <code>\TPJrevision</code> defined without <code>\TPJissue</code> . . . . .	8
	AO: reproduce entire definition from <code>article.cls</code> , with modifications. . . . .	5	v0.4d	<code>\addinfo</code> : WR: Name change to user-space. . . . .	9
	<code>\ps@titlepage</code> : AO: add page header and footer to title page .	8	<code>\clearinfo</code> : WR: Implemented to allow for re-definition of standard information blocks. . . . .	9	
	<code>\read@iss@aux</code> : AO: read the "issue" file . . . . .	12	<code>\license</code> : WR: name change from <code>\TPJcopyright</code> for consistency with other commands. . . . .	10	
	<code>\set@pdfpage</code> : AO: add commands setting pdftex's page metrics from LaTeX's . . . . .	13	<code>\noabstract</code> : WR: Implemented to turn off the abstract. . . . .	9	
	<code>\TPJcopyright</code> : AO: add commands specifying issue, revision, copyright. . . . .	10	<code>\titlepage@foot</code> : Removed <code>\copyright</code> from the copyright notice and put the whole thing in a lowered <code>\vbox</code> to allow multi-line declarations. . . . .	8	
	<code>\write@ID@aux</code> : AO: add ID file .	12	<code>\titlepage@head</code> : WR: Make the header <code>\small</code> . . . . .	8	
v0.3a	General: AO: changes to <code>\TPJissue</code> , <code>\TPJrevision</code> , <code>\TPJcopyright</code> . . . . .	1	<code>\tpj@info@container</code> : Warn if a title block command is used after <code>\maketitle</code> . . . . .	10	
v0.3b	General: AO: change <code>\evensidemargin</code> . . . . .	1	v0.4e	General: WR: requires the <code>textcomp</code> package. . . . .	5
v0.4a	<code>\@maketitle</code> : WR: various changes to accommodate extras. . . . .	6	<code>\titlepage@head</code> : WR: Removed email comments links. . . . .	8	
	General: WR: Incorporated code from <code>texnames</code> and <code>mflogo</code> . . .	12			
	<code>\tpj@define@info@block</code> : WR: Implemented for new <code>\@maketitle</code> . . . . .	9			
	<code>\tpj@info@container</code> : Implemented for new <code>\@maketitle</code> . .	10			

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

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