

Typesetting Articles for *Res Philosophica*^{*†}

Boris Veytsman[‡]

2025/06/29, v1.37

Abstract

This package provides a class for typesetting articles for the journal *Res Philosophica*, <http://www.resphilosophica.org>.

Contents

1	Introduction	2
2	User Interface	2
2.1	Commercial Fonts	2
2.2	Invocation and Options	2
2.3	Topmatter	3
2.3.1	Commands for Authors	3
2.3.2	Commands for Editors	4
3	Special Notes	6
3.1	Bibliography	6
4	Implementation	8
4.1	Options	8
4.2	Loading Classes and Packages	9
4.3	Page Dimensions and Paragraphing	11
4.4	Headers	11
4.5	Top Matter Macros	13
4.6	Typesetting Top Matter	16
4.7	Notes	19
4.8	Typesetting End Matter	19
4.9	Sectioning	21
4.10	Additional Commands	21
4.11	The End	23

^{*}©2012–2025, Boris Veytsman

[†]This work was commissioned by the Saint Lois University

[‡]borisv@lk.net, boris@varphi.com

1 Introduction

According to the statement at <http://www.resphilosophica.org/>, *Res Philosophica* is an international, quarterly journal of philosophy that publishes research in all areas of philosophy, historical and topical. Founded as *The Modern Schoolman* by Jesuit Scholastics in 1925, the journal is edited by members of the Philosophy Department at Saint Louis University and supported generously by the College of Arts and Sciences.

This package is intended for the authors and editors of the journal to typeset the articles in L^AT_EX. Note that the journal is typeset in *Linotype Sabon*. The users may buy the fonts and install their free L^AT_EX support [1], or use the options `bodyfont=cm` and `rpfont=cm` to typeset the articles using Computer Modern. Of course, the line and page breaks in the latter case are different from those in the final version typeset with commercial fonts.

2 User Interface

2.1 Commercial Fonts

The package can be used with free Computer Modern fonts or with commercial fonts to mimick the journal typesetting. The installation of additional fonts is therefore fully optional.

Res Philosophica uses Linotype Sabon for the body text and URW Garamond for mathematics. Sabon is a commercial font. URW Garamond is free, but due to license restrictions it is usually not included with T_EXLive, MikT_EX and other major distributives. If you bought Linotype Sabon, you need to install the package `lsabon` [1]. To use URW Garamond, you need to download the `pf` files from a CTAN mirror (<http://mirror.ctan.org/fonts/urw/garamond/>), install them in the directory `fonts/type1/urw/garamond` under `$TEXMFLOCAL` and run `texhash`.

2.2 Invocation and Options

To use the class put in the preamble of your document

```
\documentclass[options]{resphilosophica}
```

The class `resphilosophica` internally loads `amsart`, and therefore all class options for `amsart` are technically valid. However, most of them are not especially meaningful for `resphilosophica`. There are several options specific for this class. They are described below. Note that the class uses key-value interface for some options, for example

```
\documentclass[bodyfont=sabon]{resphilosophica}
```

option The option `bodyfont` can have three values: `sabon` for Sabon/Garamond fonts, **bodyfont** `cm` for Computer Modern and `auto` (default). The later option switches to the use of Sabon if the font metrics are present in your system, and to the use of Computer Modern otherwise.

option The option `manuscript` is intended to facilitate the communications between **manuscript** the editor and the author. It enables two things:

1. The numbering of lines in the manuscript is switched off in the normal mode, but is on in the manuscript mode.
2. The command `\EditorialComment` is no-op in normal mode, but produces mariginal commentaries in the manuscript

option The option `preprint` is for the final version of the manuscript. In this mode `preprint` there are no editorial comments, but the numbering of lines is preserved

option The option `screen` is intended for the screen reading. When this option is `screen` selected, the links become highlighted.

option The option `forthcoming` is like `screen`, but it is used when there is no information about the volume. The macro `\onlinedate{<date>}` can be used to set `forthcoming` `\onlinedate` the date of online publication.

option The preferred solution for bibliography is `natbib` package [2]. The option `natbib` `natbib=true` (default) sets the package and the proper options, including bibliography style. The option `natbib=false` switches this behavior off, and the formatting of the bibliography becomes the full responsibility of the author. The package includes the Bib_{TeX} bibliography style `resphilosophica.bst`.

2.3 Topmatter

Topmatter is the part of the article with the informations about the authors, their affiliations, the publication data, etc.

There are two kinds of top matter commands: the ones used primarily for authors and the ones used primarily for editors. We describe them separately.

2.3.1 Commands for Authors

`\title` The command `\title`, as in `amsart` class, has two arguments: one optional, and one mandatory:

`\title[<ShortTitle>]{<FullTitle>}`

The mandatory argument is the full title of the article. The optional argument, if present, defines the shorter version of the title for running heads. If the optional argument is absent, the full title is used instead.

The title is typeset in small caps. The result of the command `\emph` in title depends on whether commercial fonts and the package `lsabon` package is used: with a relatively recent version of the package `lsabon` the emphasized text is typeset in Small Caps Italics.

`\author` The interface for specifying the authors and their affiliations is close the the `\email` one of `amsart` [3] (and different from the standard L^AT_EX). For each author a `\address` separate command `\author` should be used, followed by `\address` and (optionally) `\curraddr` `\curraddr`, `\email` and `\urladdr`.

`\urladdr` In some cases the authors list may be too long for the running head, even `\shortauthors` if the abbreviated forms are used for each author. In this case it is possible to change the running head by a *redefinition* of the command `\shortauthors`. This redefinition must be done after all `\author` commands, but before `\maketitle`:

`\renewcommand{\shortauthors}{A.~Smith et al}`

`\thanks` Like `amsart` (and unlike standard L^AT_EX), `resphilosophica` allows `\thanks` only *outside* of commands `\title` and `\author`. The text of `\thanks` is typeset at the end of the paper as a footnote marked ‘Acknowledgments’. Note that the right vertical positioning of this footnote might require an additional run of L^AT_EX.

`\titlenote` The `\titlenote{<note>}` command creates a special footnote for the title. This command should be issued *outside* the `\title` command.

`\authornote` The similar `\authornote{<note>}` command creates a special footnote for the author. This command should be issued *outside* the `\author` command.

`\copyrightnote` Normally each paper is copyrighted by the authors and by the journal. This is reflected in the footnote on the first page of the article. However, by arrangement with the editors, certain papers may have different copyright. The command `\copyrightnote{<copyright statement>}`, if issued, changes the footnote to the corresponding text, for example:

```
\copyrightnote{\textcopyright~2012 by the authors. This paper may
be reproduced, in its entirety, for noncommercial purposes.}
```

Note that if you issue this command, you should explicitly include both the copyright sign and the year unless the paper does not have a copyright, for example:

```
\copyrightnote{This paper is in the public domain}
```

`\copyrightyear` Normally the copyright statement includes the year of copyright, which is assumed to be the publication year as specified by the `\publicationyear` command (see below). If this assumption is wrong, you may correct it, for example,

```
\copyrightyear{1998}
```

`abstract (env.)` The abstract of the paper must be put between `\begin{abstract}` and `\end{abstract}`. Unlike the situation in `amsart` class, abstract may be put *after* `\maketitle`.

`\maketitle` The macro `\maketitle` typesets the top matter. All top matter information should be specified before this command.

2.3.2 Commands for Editors

The commands described in this section should be used by the editors to insert the information about the published paper. They must be put before the `\maketitle` command.

`\volumenumber` The macros `\volumenumber`, `\issuenumber`, `\publicationyear`, `\publicationmonth`,
`\issuenumber` `\papernumber`, `\startpage`, `\endpage` set up the corresponding data for the pa-
`\publicationyear` per, for example:
`\publicationmonth`
`\papernumber` `\volumenumber{88}`
`\startpage` `\issuenumber{1--2}`
`\endpage` `\publicationyear{2012}`
`\publicationmonth{January--February}`
`\papernumber{2}`
`\startpage{1}`
`\endpage{39}`

Note that if the argument of `\endpage` is empty, L^AT_EX tries to calculate the last page number as best as it can.

Sometimes publication month for double issues is too long to fit on the back cover. For this case `\publicationmonth` has the optional argument, abbreviated month, for example

```
\publicationmonth[Jan--Feb]{January--February}
```

`\manuscriptid` The command `\manuscriptid[⟨id⟩]` sets the number of the manuscript assigned at submission. If it is set, it is used to calculate the doi number (see below).

`\doinumber` Normally you do not need to set the DOI of the paper: T_EX will construct the number using the paper data. However, you *may* override its decision using the command `\doinumber` which sets the DOI explicitly, for example, `\doinumber{⟨10.11612/resphilosophica.2013.01.01⟩}`. You probably should not use this macro.

`\prevpaper` Instead of setting `\startpage`, one can use the the command `\prevpaper{⟨previous paper⟩}`, with the argument being the location and file name of the previous paper in the journal, for example:

```
\prevpaper{../infinity/concept_of_infinity}
```

Note that the `.tex` suffix should *not* be used. The previous paper must be processed by `latex` prior to the current one. In this case `latex` will read the last page of the previous paper, and start the current one from the proper page number.

`\paperUrl` When a paper is submitted to the Crossref service, which keeps the database of Digital Object Identifiers, its URL is calculated by the script used by editors. The command `\paperURL{⟨url⟩}` overrides this choice.

`\EditorialComment` The macro `\EditorialComment[⟨level⟩]{⟨comments⟩}` typesets the comments on the margins in the `manuscript` mode, for example,

```
Which is a well known fact.\EditorialComment{A citation is
needed}\EditorialComment[1]{Please make the citation more
explicit}.
```

Editorial comments have *levels*. A level can be numeric or symbolic; symbolic levels can contain letters and numbers. The default level is 0, so `\EditorialComment{text}` is equivalent to `\EditorialComment[0]{text}`.

`\ECSelect` The command `\ECSelect{⟨level,level,...⟩}` selects the levels of editorial comments to display in the `manuscript` mode. Note that 0 corresponds to the default level, so the command `\ECSelet{0}` should be used to show these comments.

Sometimes it is useful to tell the author about typesetter's changes in the manuscript. The dialog between the author and typesetter might take several iterations, so the class provides a system for this dialog.

`\TC` The macro `\TC[⟨level⟩]{⟨text⟩}` makes `{⟨text⟩}` highlighted in the `manuscript` mode if the level `[⟨level⟩]` is chosen. For example,

```
This proposition \TC[1]{(first discussed by the author in 2010)} can
be stated as the following.
```

The level can be numerical, or logical, e.g. `\TC[new]{text}`. Actually any combination of letters and numbers that does not contain commas or spaces can be used for level. By default the level is 0, so `\TC{<text>}` is equivalent to `\TC[0]{<text>}`.

`\TCSelect` The decision to highlight certain levels is done by the command `\TCSelect[<color>]{<level,level,level..}`. The first optional argument is the color used for highlighting; by default **magenta**. Actually any color expression understandable by `xcolor` can be used. The second argument is a comma-separated list of levels that will be highlighted by the selected color. The command `\TCSelect` can be repeated, for example,

```
\TCSelect{0,1,new}
\TCSelect[blue]{second-level}
```

If a level does *not* appear in any `\TCSelect` command, it is not highlighted—that is why we do not need a separate `\TCOff` command.

3 Special Notes

notes (*env.*) Some authors include special notes, for example, bibliography description, that precede list of references, but follow the signature block. The environment **notes** is intended for this purpose. It has one mandatory argument, title, for example

```
\begin{notes}{Bibliography notes}
  The best discussion of the problem can be found in...
\end{notes}
```

3.1 Bibliography

As mentioned above, **resphilosophica** by default uses **natbib** [2]. You should use **natbib** commands like `\citet`, `\citep` etc.

Note that `\bibliographystyle` command should *not* be issued by the author: the package takes care of this. You just need to type

```
\bibliography{DATABASE, DATABASE...}
```

The bibliography style used for the articles is **resphilosophica.bst**. Compared to standard styles it has two additional fields:

doi: DOI number of the publication. Write there only the number: the style will automatically add <https://doi.org> and make the reference clickable.

titlenote: the note that should be put after the title rather than at the end of the entry¹, for example, the information about translators, editors of critical editions, etc:

```
@book{Knuth94:TheTeXbook,
  address =      {Reading, MA},
  author =      {Knuth, Donald Ervin},
  titlenote =    {Illustrations by Duane Bibby},
```

¹This field was proposed by Maureen Shupsky for the *Annals of Mathematics* bibliography style.

```

publisher = {Addison-Wesley Publishing Company},
series = {Computers \& Typesetting A},
title = {The \TeX book},
year = {1994},
}

```

`\enquote` The macros `\enquote` and `\ensquote` put their arguments in double and single
`\ensquote` quotes correspondingly. They are used to suppress unwanted commas and periods
inside bibliography entries.

`\suppresscomma` Sometimes Bib_{TEX} inserts an unwanted comma into an entry, for example, in
the following one:

```

@incollection{ande97a,
  Address = {Macon, GA},
  Author = {Anderson, Thomas C.},
  Booktitle = {Concluding Unscientific Postscript to
\enquote{Philosophical Fragments,}},
  Date-Modified = {2013-09-04 21:27:17 +0000},
  Editor = {Robert Perkins},
  Owner = {Andrew},
  Pages = {187--204},
  Publisher = {Mercer University Press},
  Series = {International Kierkegaard Commentary},
  Timestamp = {2013.09.04},
  Title = {Kierkegaard and Approximation Knowledge},
  Volume = {12},
  Year = {1997}}

```

The command `\suppresscomma` suppresses the next comma:

```

Booktitle = {Concluding Unscientific Postscript to
\enquote{Philosophical Fragments,\suppresscomma}},

```

The bibliography style has a special entry type, `inloosecollection`. It resembles the standard `incollection` entry, but it refers to a collection of papers written by separate authors that are quotable separately as an independent entity. This entry is typeset slightly differently than the standard `incollection` entry.

`\AddtoEndMatter` If you decide to forgo `natbib`, you can use `natbib=false` option. Then you should remember to put the bibliography *after* the end matter (authors' addresses etc) using the command `\AddtoEndMatter`:

```

\AddtoEndMatter{MY BIBLIOGRAPHY COMMANDS}

```

Acknowledgments

This package was commissioned by the journal *Res Philosophica* and funded by Saint Louis University. I am grateful to Jonathan Jacobs for tireless testing of the package.

4 Implementation

4.1 Options

We need `xkeyval` since some of our options may have values:

```
1 \RequirePackage{xkeyval}
```

`\ifRESP@fontauto` First, check whether the user have the body font explicitly configured:

```
2 \newif\ifRESP@fontauto
3 \RESP@fontautotruetrue
```

`\ifRESP@rpfontauto` Same for *Res Philosophica* font

```
4 \newif\ifRESP@rpfontauto
5 \RESP@rpfontautotruetrue
```

`\ifRESP@lsabon` Are we using linotype sabon?

```
6 \newif\ifRESP@lsabon
7 \RESP@lsabonfalse
```

`\ifRESP@mtshadow` Are we using MT Imprint Shadow?

```
8 %\newif\ifRESP@mtshadow
9 %\RESP@mtshadowfalse
```

`bodyfont` And the option to check the user input:

```
10 \define@choicekey*+{resphilosophica.cls}{bodyfont}[\val\nr]{auto,
11   sabon, lsabon, cm}[auto]{%
12   \ifcase\nr\relax
13     \RESP@fontautotruetrue
14   \or
15     \RESP@fontautofalse
16     \RESP@lsabontrue
17   \or
18     \RESP@fontautofalse
19     \RESP@lsabontrue
20   \or
21     \RESP@fontautofalse
22     \RESP@lsabonfalse
23   \fi}{%
24   \PackageWarning{resphilosophica}{The option bodyfont must be auto,
25     sabon or cm. Using auto}\RESP@fontautotruetrue}
```

`rpfont` And the option to check the user input:

```
26 % \define@choicekey*+{resphilosophica.cls}{rpfont}[\val\nr]{auto,
27 %   imprint, imprintshadow, cm}[auto]{%
28 %   \ifcase\nr\relax
29 %     \RESP@rpfontautotruetrue
30 %   \or
31 %     \RESP@rpfontautofalse
32 %     \RESP@mtshadowtrue
33 %   \or
34 %     \RESP@rpfontautofalse
35 %     \RESP@mtshadowtrue
36 %   \or
```



```

37 % \RESP@rpfontautofalse
38 % \RESP@mtshadowfalse
39 % \fi}{%
40 % \PackageWarning{resphilosophica}{The option rpfont must be auto,
41 % imprintshadow or cm. Using auto}\RESP@rpfontautottrue}

```

natbib Checking natbib option:

```

42 \define@boolkey+{resphilosophica.cls}[RESP@]{natbib}[true]{}{%
43 \PackageWarning{resphilosophica}{The option natbib must be
44 yes or no. Using yes}}
45 \RESP@natbibtrue

```

The size-changing options produce a warning:

```

46 \long\def\RESP@size@warning#1{%
47 \ClassWarning{RESPart}{Size-changing option #1 will not be
48 honored}}%
49 \DeclareOptionX{8pt}{\RESP@size@warning{\CurrentOption}}%
50 \DeclareOptionX{9pt}{\RESP@size@warning{\CurrentOption}}%
51 \DeclareOptionX{10pt}{\RESP@size@warning{\CurrentOption}}%
52 \DeclareOptionX{11pt}{\RESP@size@warning{\CurrentOption}}%
53 \DeclareOptionX{12pt}{\RESP@size@warning{\CurrentOption}}%

```

\ifRESP@manuscript Manuscript mode:

```

54 \newif\ifRESP@manuscript
55 \RESP@manuscriptfalse
56 \DeclareOptionX{manuscript}{\RESP@manuscripttrue}

```

\ifRESP@screen Screen mode:

```

57 \newif\ifRESP@screen
58 \RESP@screenfalse
59 \DeclareOptionX{screen}{\RESP@screentrue}

```

\ifRESP@preprint Whether we are in the preprint mode

```

60 \newif\ifRESP@preprint
61 \RESP@preprintfalse
62 \DeclareOptionX{preprint}{\RESP@preprinttrue}

```

\ifRESP@forthcoming Whether we are in the forthcoming mode

```

63 \newif\ifRESP@forthcoming
64 \RESP@forthcomingfalse
65 \DeclareOptionX{forthcoming}{\RESP@forthcomingtrue}

```

All other options are passed to amsart:

```

66 \DeclareOptionX{*}{\PassOptionsToClass{\CurrentOption}{amsart}}

```

And executing options:

```

67 \ProcessOptionsX

```

4.2 Loading Classes and Packages

We use amsart since it has nice features for front matter:

```

68 \LoadClass[noamsfonts,twoside]{amsart}

```

Some packages

```

69 \RequirePackage{microtype, fancyhdr, xcolor, lastpage, collect}
70 \RequirePackage[bottom,multiple]{footmisc}
71 \PassOptionsToPackage{hyphens}{url}
72 \RequirePackage[hyperfootnotes=false]{hyperref}
73 \urlstyle{rm}
74 \ifRESP@manuscript\hypersetup{colorlinks,allcolors=blue}\else
75   \ifRESP@screen\hypersetup{colorlinks,allcolors=blue}\else
76     \ifRESP@preprint\hypersetup{colorlinks,allcolors=blue}\else
77       \ifRESP@forthcoming\hypersetup{colorlinks,allcolors=blue}\else
78         \hypersetup{hidelinks}\fi\fi\fi\fi

```

The font to use depends on the options. Note that \LaTeX cannot reliably determine whether a binary file like `SabonLTRom.pfb` exists in the system, so we check for the `.fd` file instead (sigh):

```

79 \ifRESP@fontauto
80   \IfFileExists{t1lsb.fd}{\RESP@lsabontrue}{\RESP@lsabonfalse}\fi

```

If the user wants, we load Sabon and URW Garamond. Note that `mathdesign` defines `sc` to be `fsc`, so we need to redefine it for Sabon. Also, it defines `b` to `mb`, so we redefine it again.

```

81 \ifRESP@lsabon
82   \RequirePackage{mdugm}{mathdesign}
83   \RequirePackage{rmdefault}{lsabon}
84   \renewcommand\scdefault{sc}
85   \renewcommand{\bfdefault}{b}
86 \fi

```

Checking the existence of `miih` font metrics:

```

87 %\ifRESP@rpfontauto
88 % \IfFileExists{t1miih.fd}{\RESP@mtshadowtrue}{\RESP@mtshadowfalse}\fi

```

`\rpdefault` This is the font for *Res Philosophica*:

```

89 %\ifRESP@mtshadow
90 % \def\rpdefault{miih}\else
91 % \def\rpdefault{rmdefault}\fi

```

`\AddtoEndMatter` A syntax sugar to add something after signature:

```

92 \def\AddtoEndMatter#1{\g@addto@macro\enddoc@text{#1}}

```

And loading `natbib`:

```

93 \ifRESP@natbib
94   \RequirePackage[round]{natbib}
95   \AtEndDocument{\bibliographystyle{resphilosophica}}
96   \let\RESP@bibliography=\bibliography
97   \def\bibliography#1{\AddtoEndMatter{\RESP@bibliography{#1}}}
98   \def\bibsection{\par\addpenalty\@secpenalty\addvspace{\bigskipamount}%
99     \noindent \Small References:\par\nobreak\vskip\medskipamount\@afterheading}
100   \def\bibfont{\Small}
101 \fi

```

4.3 Page Dimensions and Paragraphing

`\pdfpaperwidth` Paper:
`\pdfpaperheight` 102 `\ifRESP@manuscript\else`
 103 `\AtBeginDocument{\setlength{\pdfpagewidth}{432bp}%`
 104 `\setlength{\pdfpageheight}{648bp}}`
 105 `\fi`

`\textwidth` The size of the type block:
`\textheight` 106 `\setlength{\textwidth}{318pt}`
 107 `\setlength{\textheight}{540pt}`

`\evensidemargin` The margins:
`\oddsidemargin` 108 `\setlength{\evensidemargin}{-0.125in}`
 109 `\setlength{\oddsidemargin}{-0.25in}`
 110 `\ifRESP@screen`
 111 `\setlength{\evensidemargin}{-0.1875in}`
 112 `\setlength{\oddsidemargin}{-0.1875in}`
 113 `\fi`
 114 `\ifRESP@forthcoming`
 115 `\setlength{\evensidemargin}{-0.1875in}`
 116 `\setlength{\oddsidemargin}{-0.1875in}`
 117 `\fi`

`\topmargin` Top margin
 118 `\setlength{\topmargin}{-48pt}`

`\listisep` This is the space around lists. `amsart` defines it as `\smallskipamount`. We slightly increase it:
 119 `\listisep\medskipamount`

4.4 Headers

`\headsep` Separation between the header and the body
 120 `\setlength{\headsep}{14pt}`

`\headheight` The height of the headers:
 121 `\setlength{\headheight}{12pt}`

`\headrulewidth` We do not want decorative rules in the journal:
`\footrulewidth` 122 `\renewcommand{\headrulewidth}{0pt}`
 123 `\renewcommand{\footrulewidth}{0pt}`

`\footskip` Separation between the footer and the body
 124 `\setlength{\footskip}{20pt}`

`\RESP@printlinecount` Do we want to print line count?
 125 `\newif\ifRESP@printlinecount`
 126 `\RESP@printlinecountfalse`
 127 `\ifRESP@manuscript\RESP@printlinecounttrue\fi`
 128 `\ifRESP@preprint\RESP@printlinecounttrue\fi`

\RESP@linecount This is the box displayed in the manuscript mode

```

129 \ifRESP@printlinecount
130   \newsavebox{\RESP@linecount}
131   \savebox{\RESP@linecount}[4em][t]{\parbox[t]{4em}{%
132     \@tempcnta\@ne\relax
133     \loop{\color{red}\scriptsize\the\@tempcnta}\@
134     \advance\@tempcnta by \@ne\ifnum\@tempcnta<47\repeat}}
135 \fi

```

It is easy to set up headers with fancyhdr:

```

136 \pagestyle{fancy}
137 \fancyhead{}
138 \fancyfoot{}
139 \fancyhead[LE]{\footnotesize\thepage\quad\itshape\shortauthors}
140 \fancyhead[RO]{\footnotesize\textit{\shorttitle}\quad\thepage}
141 \ifRESP@printlinecount
142   \fancyhead[LE]{\begin{picture}(0,0)%
143     \put(-26,-22){\usebox{\RESP@linecount}}%
144     \end{picture}\footnotesize\thepage\quad\itshape\shortauthors}
145   \fancyhead[LO]{\begin{picture}(0,0)%
146     \put(-21,-22){\usebox{\RESP@linecount}}%
147     \end{picture}}
148 \fi
149 \ifRESP@manuscript
150   \fancyfoot[C]{\scriptsize\color{red}Author's Proof}%
151 \fi
152 \ifRESP@preprint
153   \fancyfoot[C]{\scriptsize\color{red}Author's Pre-Print}%
154 \fi

```

The first page has the special headers. The style `firstpage` is invoked by `amsart`; here we just redefine it.

```

155 \fancypagestyle{firstpage}{%
156   \fancyhf{}%
157   \ifRESP@printlinecount
158     \lhead{\begin{picture}(0,0)%
159       \put(-26,-20){\usebox{\RESP@linecount}}%
160       \end{picture}}
161   \fi
162   \ifRESP@preprint
163     \cfoot{\footnotesize Res Philosophica, \itshape
164       Vol.~\currentvolume, No.~\currentissue,
165       \currentmonth~\currentyear
166       \ifx\@doinumber\@empty\else\\%
167       \doi{\@doinumber}\fi
168       \\
169       \@copyrightnote}%
170     \chead{\scriptsize\color{red}Author's Pre-print. Forthcoming in
171       Res Philosophica. Pagination may change. Published version will
172       be available at \url{http://pdcnet.org/resphilosophica/}}
173   \else
174     \ifRESP@forthcoming
175       \cfoot{\footnotesize Res
176         Philosophica\itshape

```

```

177 \ifx\currentvolume\@empty\else, %
178 Vol.~\currentvolume\fi
179 \ifx\currentissue\@empty\else, No.~\currentissue\fi
180 \ifx\currentmonth\@empty
181 \ifx\currentyear\@empty\else, \currentyear\fi
182 \else,
183 \currentmonth~\currentyear
184 \fi
185 \ifx\@doinumber\@empty\else\\%
186 \doi{\@doinumber}\fi
187 \\
188 \@copyrightnote}%
189 \thead{\raisebox{1.5\bigskipamount}[\z@][\z@]{\parbox{\textwidth}{\raggedright\footnotesize
190 \else
191 \cfoot{\footnotesize Res Philosophica, \itshape
192 \itshape Vol.~\currentvolume, No.~\currentissue,
193 \currentmonth~\currentyear, pp.~\start@page--\end@page
194 \ifx\@doinumber\@empty\else\\%
195 \doi{\@doinumber}\fi
196 \\
197 \@copyrightnote}%
198 \fi\fi}

```

4.5 Top Matter Macros

Most top matter macros are defined in `amsart`. Here we just add some new macros and redefine some.

The next macros mimic the functionality of `amsart \issueinfo` command. Note that `\issueinfo` still works.

`\volumenumber` This sets the volume of the paper

```

199 \def\volumenumber#1{\def\currentvolume{#1}}
200 \volumenumber{}

```

`\issuenumber` This sets the issue of the paper:

```

201 \def\issuenumber#1{\def\currentissue{#1}}
202 \issuenumber{}

```

`\publicationyear` This sets the year of the paper

```

203 \def\publicationyear#1{\def\currentyear{#1}}
204 \publicationyear{}

```

`\publicationmonth` This sets the month of the paper

```

205 \newcommand\publicationmonth[2][\gdef\currentmonth{#2}%
206 \gdef\abbrevcurrentmonth{#1}%
207 \ifx\abbrevcurrentmonth\@empty\gdef\abbrevcurrentmonth{#2}\fi}
208 \publicationmonth{}

```

`\papernumber` This is absent from the `\issueinfo`.

```

209 \def\papernumber#1{\def\currentpaper{#1}}
210 \papernumber{0000}
211 %
212 % \end{macro}

```

```

213 %
214 % \begin{macro}{\manuscriptid}
215 % \changes{v1.29}{2016/08/26}{Added macro}
216 %   Submission id
217 %   \begin{macrocode}
218 \def\manuscriptid#1{\gdef\@manuscriptid{#1}}
219 \manuscriptid{}
220 %
221 % \end{macro}
222 %
223 %
224 % \begin{macro}{\doinumber}
225 % \changes{v1.11}{2012/12/25}{Added default}
226 % \changes{v1.29}{2016/08/26}{Now we use \cs{manuscriptid} to make doi}
227 %   DOI number for the article:
228 %   \begin{macrocode}
229 \def\doinumber#1{\gdef\@doinumber{#1}}
230 \doinumber{\ifx\@manuscriptid\empty
231   10.11612/resphil.\currentyear.\currentvolume.\currentissue.\currentpaper
232   \else
233     10.11612/resphil.\@manuscriptid
234   \fi}

\paperUrl The url to submit to crossref
235 \def\paperUrl#1{\gdef\@paperUrl{#1}}
236 \paperUrl{}

\startpage This defines the starting page of the paper. We have some nice features to set up
roman page numbers for editorial stuff—probably not needed for this journal at
this time...
237 \def\startpage#1{\pagenumbering{arabic}\setcounter{page}{#1}%
238   \def\start@page{#1}%
239   \ifnum\c@page<\z@ \pagenumbering{roman}\setcounter{page}{-#1}%
240     \def\start@page{\romannumeral#1}%
241   \fi}

\endpage This macro again has a twist in it: if the argument is not set, it calculates the last
page number itself.
242 \def\endpage#1{\def\@tempa{#1}%
243   \ifx\@tempa\empty\def\end@page{\pageref{LastPage}}%
244   \else\def\end@page{#1}\fi}

\pagespan This macro is different from the one provided by amsart because we want to have
the option of automatic calculation of the last page number.
245 \def\pagespan#1#2{\startpage{#1}\endpage{#2}}
246 \pagespan{1}{}

\articleentry This is necessary for \prevpaper command. We read the TOC entry from the
previous paper and increment it by 1. Note that we always start with on an odd
page, since the additional check
247 \def\articleentry#1#2#3#4{\@tempcnta=#4\relax
248   \advance\@tempcnta by 1\relax
249   \ifodd\the\@tempcnta\else\advance\@tempcnta by 1\relax\fi
250   \startpage{\the\@tempcnta}}

```

`\prevpaper` This sets the previous paper location and reads the information from the previous paper

```
251 \def\prevpaper#1{\IfFileExists{#1.rpi}{%
252   \ClassInfo{resphilosophica}{%
253     Reading first page number from the file #1.rpi}%
254   \input{#1.rpi}%
255 }{\ClassWarning{resphilosophica}{Cannot find the file #1.rpi.
256   Did you run latex on the previous paper?}}}
```

`abstract` We slightly redefine abstract comparing to amsart conventions:

```
257 \renewenvironment{abstract}{%
258   \ifx\maketitle\relax
259   \ClassWarning{resphilosophica}{Abstract should precede
260     \protect\maketitle\space in AMS derived classes}%
261   \fi
262   \global\setbox\abstractbox=\vtop\bgroup%
263   \vglue1pc%
264   \list{}{\labelwidth\z@%
265     \leftmargin3pc \rightmargin\leftmargin%
266     \listparindent\normalparindent \itemindent\z@%
267     \parsep\z@ \@plus\p@%
268     \let\fullwidthdisplay\relax%
269   }%
270   \item[]\normalfont\normalsize\textbf{\abstractname:}\space
271 }{%
272   \endlist\egroup%
273   \ifx\@setabstract\relax\@setabstracta\fi%
274 }
```

`\copyrightyear` This is the copyright year in case it does not coincide with the publication year:

```
275 \def\copyrightyear#1{\def\@copyrightyear{#1}}
276 \ifRESP@forthcoming
277   \copyrightyear{the\year}\else
278   \copyrightyear{}\fi
```

`\onlinedate` Online date for forthcoming issues

```
\@onlinedate 279 \def\onlinedate#1{\gdef\@onlinedate{#1}}
280 \onlinedate{\hspace*{5em}}
```

`\RESP@bulletboxwidth` This is the width of a box with a bullet for copyright note:

```
281 \newlength\RESP@bulletboxwidth
282 \settowidth\RESP@bulletboxwidth{\quad\textbullet\quad}
```

`\copyrightnote` This is the copyrightnote. The default has some trickery with the year and short authors.

The disappearing bullet is based on the trick by Marcin Wolinński, who noted that `\cleaders` are discardable (see [4]).

```
283 \def\copyrightnote#1{\def\@copyrightnote{#1}}
284 \copyrightnote{\textcopyright~%
285   \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
286   \shortauthors\cleaders\hbox{\quad\textbullet\quad}\hskip\RESP@bulletboxwidth
287   \textcopyright~%
288   \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
289   {\upshape Res~Philosophica}}%
```

`\author` The base class puts into `\addresses` the strange line `\author{}`. We correct this:

```

290 \renewcommand{\author}[2] []{%
291   \ifx\@empty\addresses
292     \gdef\addresses{\author{#2}}%
293   \else
294     \g@addto@macro\addresses{\author{#2}}%
295   \fi
296   \ifx\@empty\authors
297     \gdef\authors{#2}%
298   \else
299     \g@addto@macro\authors{\and#2}%
300   \fi
301   \@ifnotempty{#1}{%
302     \ifx\@empty\shortauthors
303       \gdef\shortauthors{#1}%
304     \else
305       \g@addto@macro\shortauthors{\and#1}%
306     \fi
307   }%
308 }
309 \edef\author{\@nx\@dblarg
310   \@xp\@nx\csname\string\author\endcsname}

```

`\titlenote` This command adds an entry to the list of titlenotes

```

311 \def\@titlenotes{}%
312 \def\titlenote#1{%
313   \ifx\@empty\@titlenotes\gdef\@titlenotes{\footnote{#1}}%
314   \else\g@addto@macro\@titlenotes{\footnote{#1}}\fi}

```

`\authornote` This command adds an entry to the list of titlenotes

```

315 \def\@authornotes{}%
316 \def\authornote#1{%
317   \ifx\@empty\@authornotes\gdef\@authornotes{\footnote{#1}}%
318   \else\g@addto@macro\@authornotes{\footnote{#1}}\fi}

```

4.6 Typesetting Top Matter

`\@settitle` We do not uppercase title. Also, we use this occasion to set PDF information:

```

319 \def\@settitle{\begin{center}%
320   \baselineskip20\p@\relax
321   \LARGE\scshape
322   \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
323   \ifx\itshape\@undefined\else\def\em{\itshape}\fi
324   \@title\@titlenotes
325   \hypersetup{pdftitle=\@title}%
326   \end{center}%
327 }

```

`\@setauthors` Now we typeset authors according to our specs. Again, we use this occasion to set some PDF information:

```

328 \def\@setauthors{%
329   \ifx\authors\@empty\relax\else
330     \begin{group}

```



```

331 \def\thanks{\protect\thanks@warning}%
332 \trivlist
333 \centering\footnotesize \@topsep30\p@\relax
334 \advance\@topsep by -\baselineskip
335 \item\relax
336 \def\@and{{and}}
337 \author@andify\authors
338 \hypersetup{pdfauthor=\authors}%
339 \def\{\{\protect\linebreak\}%
340 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
341 \large\normalfont\authors\@authornotes
342 \endtrivlist
343 \endgroup
344 \fi}

```

`\maketitle` We redefine `\maketitle`—mostly to prevent uppercasing of shorttitle and to write down the journal information:

```

345 \def\maketitle{\par
346   \@topnum\z@ % this prevents figures from falling at the top of page 1
347   \@setcopyright
348   \thispagestyle{firstpage}% this sets first page specifications
349   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
350   \else \andify\shortauthors
351   \fi
352   \@maketitle@hook
353   \RESP@write@paper@info
354   \begingroup
355   \@maketitle
356   \toks@{\xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
357   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
358   \edef\@tempa{%
359     \@nx\markboth{\the\toks4
360       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
361   \@tempa
362   \endgroup
363   \c@footnote\z@
364   \everypar{\setbox\z@\lastbox\everypar{}}%
365 }

```

`\@maketitle` We delete top space introduced by `amsart`:

```

366 \def\@maketitle{%
367   \normalfont\normalsize
368   \@adminfootnotes
369   \@mkboth{\@nx\shortauthors}\{\@nx\shorttitle}%
370   \@settitle
371   \ifx\@empty\authors \else \@setauthors \fi
372   \ifx\@empty\@dedicatory
373   \else
374     \baselineskip18\p@
375     \vtop{\centering{\footnotesize\itshape\@dedicatory\@par}%
376       \global\dimen@i\prevdepth}\prevdepth\dimen@i
377   \fi
378   \@setabstract
379   \normalsize

```

```

380 \if@titlepage
381 \newpage
382 \else
383 \dimen@34\p@ \advance\dimen@-\baselineskip
384 \vskip\dimen@\relax
385 \fi
386 } % end \@maketitle

```

\@mainrpi The stream for the rpi file:

```
387 \newwrite\@mainrpi
```

\RESP@write@paper@info This writes the information about the paper into the file jobname.rpi. Note that hyperref makes our life a little bit more complex

```

388 \def\RESP@write@paper@info{%
389 \bgroup
390 \if@filesw
391 \openout\@mainrpi\jobname.rpi%
392 \write\@mainrpi{\relax}%
393 \ifx\r@LastPage\@undefined
394 \edef\@tempa{\start@page}%
395 \else
396 \def\@tempc##1##2##3##4##5{##2}%
397 \edef\@tempa{\expandafter\@tempc\r@LastPage}%
398 \fi
399 \def\and{\string\and\space}%
400 \protected@write\@mainrpi{%
401 {\string\articleentry{\authors}{\@title}{\start@page}{\@tempa}}%

```

The next lines are for crossref software

```

402 \protected@write\@mainrpi{%
403 {\@percentchar authors=\authors}%
404 \protected@write\@mainrpi{%
405 {\@percentchar title=\@title}%
406 \protected@write\@mainrpi{%
407 {\@percentchar year=\currentyear}%
408 \protected@write\@mainrpi{%
409 {\@percentchar volume=\currentvolume}%
410 \protected@write\@mainrpi{%
411 {\@percentchar issue=\currentissue}%
412 \protected@write\@mainrpi{%
413 {\@percentchar paper=\currentpaper}%
414 \protected@write\@mainrpi{%
415 {\@percentchar startpage=\start@page}%
416 \protected@write\@mainrpi{%
417 {\@percentchar endpage=\@tempa}%
418 \protected@write\@mainrpi{%
419 {\@percentchar doi=\@doinumber}%
420 \ifx\@paperUrl\@empty\else
421 \protected@write\@mainrpi{%
422 {\@percentchar paperUrl=\@paperUrl}%
423 \fi
424 \closeout\@mainrpi
425 \fi
426 \egroup}

```

\@adminfootnotes We just define this to noop:

```
427 \def\@adminfootnotes{}
```

\@cleartopmattertags We typeset thankses at the end of the paper so we do not clear them:

```
428 \def\@cleartopmattertags{%
429   \def\do##1{\let##1\relax}%
430   \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
431   \do\author \do\@xauthor \do\address \do\@xaddress
432   \do\contrib \do\contribs \do\@xcontribs \do\tocontribs
433   \do\email \do\@xemail \do\curraddr \do\@xcurraddr
434   \do\commby \do\@commby
435   \do\dedicatory \do\@dedicatory \do\thanks
436   \do\keywords \do\@keywords \do\subjclass \do\@subjclass}
```

\sf@size It seems there is a bug in mdugm when calculating \sf@size. Here we work around it:

```
437   \def\sfs@size{7}%
```

```
438 }
```

4.7 Notes

\notes This is like bibliography:

```
439 \definecollection{notes}
440 \newenvironment{notes}[1]{%
441   \@nameuse{collect}{notes}{-}{-}%
442   \makeatletter
443   \par\addpenalty\@secpenalty\addvspace{\bigskipamount}%
444   \noindent \Small #1:\par\nobreak\vskip\medskipamount\@afterheading
445   \makeatother
446 }{\@nameuse{endcollect}\AddtoEndMatter{\includecollection{notes}}}
```

4.8 Typesetting End Matter

End matter is typeset at the end of the paper.

\if@enddoc Check whether we are in the end matter

```
447 \newif\if@enddoc
448 \@enddocfalse
```

\enddoc@text We put thankses into end matter. Also, we redefine bibliography back to the original definition in case someone writes \AddtoEndMatter{\bibliography{}}

```
449 \def\enddoc@text{%
450   \@enddoctrue\def\bibliography{\RESP@bibliography}%
451   \ifx\@empty\thankses\else
452     \bgroup
453     \let\@makefnmark\relax
454     \let\@thefnmark\relax
```

Check, whether we are at the same page as the last footnote; if yes, add medskip.

```
455   \ifx\lastfootnote@page\@undefined\else
456     \@tempcnta=\lastfootnote@page\relax
457     \ifnum\c@page=\@tempcnta\relax
```

```

458         \insert\footins{\medskip}%
459     \fi
460 \fi
461 \@footnotetext{%
462     \def\par{\let\par\@par}\textbf{Acknowledgments\quad} \setthanks}%
463 \egroup
464 \fi
465 \ifx\@empty\@translators \else\settranslators\fi
466 \ifx\@empty\addresses \else\setaddresses\fi}

```

`\ifRESP@firstingroup` A group of authors is separated by a skip from another group. This macro checks whether this is the first one

```

467 \newif\ifRESP@firstingroup

```

`\emailaddrname` The name for e-mail address:

```

468 \def\emailaddrname{E-mail}

```

`\setaddresses` Unlike `aomart`, we want to preserve author's name in the address block. Also, we want to keep linebreaks and to have clickable e-mail and URL.

We want to skip between the author groups (several authors with the same affiliation), so we check whether the previous line contains another author:

```

469 \def\setaddresses{\par
470     \nobreak \begingroup\flushright\clubpenalty\@MM\interlinepenalty\@MM
471     \widowpenalty\@MM
472     \RESP@firstingrouptrue
473 \Small
474     \def\author##1{\nobreak\ifRESP@firstingroup\par
475         \addvspace\bigskipamount\penalty-1000\fi
476         \RESP@firstingroupfalse##1\par\nobreak}%
477     \parindent\z@
478     \def\address##1##2{\RESP@firstingrouptrue\begingroup
479         \par\nobreak
480         \@ifnotempty{##1}{(\ignorespaces##1\unskip) }%
481         {\ignorespaces##2}\par\endgroup}%
482     \def\curraddr##1##2{\RESP@firstingrouptrue\begingroup
483         \@ifnotempty{##2}{\nobreak\indent\curraddrname
484             \@ifnotempty{##1}{, \ignorespaces##1\unskip}:\space
485             ##2\par}\endgroup}%
486     \def\email##1##2{\RESP@firstingrouptrue\begingroup
487         \@ifnotempty{##2}{\nobreak\indent\emailaddrname
488             \@ifnotempty{##1}{, \ignorespaces##1\unskip}:\space
489             \href{mailto:##2}{\nolinkurl{##2}}\par}\endgroup}%
490     \def\urladdr##1##2{\RESP@firstingrouptrue\begingroup
491         \@ifnotempty{##2}{\nobreak\indent
492             \@ifnotempty{##1}{, \ignorespaces##1\unskip}%
493             \url{##2}\par}\endgroup}%
494     \addresses
495 \endgroup
496 }

```

At the end we eject the last page. If the document is printed and the last page is odd, we add an empty page.

```

497 \AtEndDocument{\clearpage

```

```

498 \ifRESP@manuscript\else
499 \ifRESP@screen\else
500 \ifRESP@preprint\else
501 \ifRESP@forthcoming\else
502 \cleardoublepage
503 \fi\fi\fi\fi}

```

4.9 Sectioning

`\@seccntformat` We do not want our numbers to be upright and medium series, as `amsart` wants:

```

504 \def\@seccntformat#1{%
505   \csname the#1\endcsname\enspace
506 }

```

`\section` We want our sections to be large and bold:

```

507 \renewcommand\section{\@startsection {section}{1}{\z0}%
508                                     {-3.5ex \@plus -1ex \@minus -.2ex}%
509                                     {2.3ex \@plus .2ex}%
510                                     {\normalfont\large\bfseries}}

```

`\subsection` Subsections are bold

```

511 \renewcommand\subsection{\@startsection{subsection}{2}{\z0}%
512                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
513                                     {1.5ex \@plus .2ex}%
514                                     {\normalfont\normalsize\bfseries}}

```

`\subsubsection` Subsubsections are normalsize and italic

```

515 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z0}%
516                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
517                                     {1.5ex \@plus .2ex}%
518                                     {\normalfont\normalsize\itshape}}

```

`\paragraph` Paragraphs:

```

519 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z0}%
520                                     {3.25ex \@plus 1ex \@minus .2ex}%
521                                     {-1em}%
522                                     {\normalfont\normalsize\bfseries}}

```

`\subparagraph` Paragraphs:

```

523 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
524                                     {3.25ex \@plus 1ex \@minus .2ex}%
525                                     {-1em}%
526                                     {\normalfont\normalsize\bfseries}}

```

4.10 Additional Commands

`\@mparswitch` We always put marginpars on the right since the line box is on the left

```

527 \@mparswitchfalse

```

`\EditorialComment` This macro is noop in normal mode, but is a tiny marginpar in the manuscript mode

```

528 \newcommand\EditorialComment[2][0]{%

```

```

529 \expandafter\ifx\csname EditorialComment@#1\endcsname\relax
530 \else\bgroup
531 \marginparwidth=200pt\marginpar{\color{red}%
532 \raggedright#2}\egroup\fi}

\ECSelect This selects the given levels
533 \def\ECSelect#1{\ifRESP@manuscript
534 \@for\EC@level:=#1\do{%
535 \expandafter\gdef\csname
536 EditorialComment@\EC@level\endcsname{\EditorialComment}}%
537 \fi}

\TC The command to highlight text if the corresponding level is selected. The first
argument is the level, the second is text.
538 \newcommand\TC[2][0]{%
539 \expandafter\ifx\csname TC@highlight@#1\endcsname\relax#2\else
540 \csname TC@highlight@#1\endcsname{#2}\fi}

\TCSelect This switches on the selected levels in the mqnuscript version
541 \newcommand\TCSelect[2][magenta]{\ifRESP@manuscript
542 \@for\TC@level:=#2\do{\expandafter
543 \gdef\csname TC@highlight@\TC@level\endcsname##1{\bgroup
544 \Hy@colorlinksfalse
545 \def\Hy@colorlink####1{\begingroup}%
546 \def\Hy@endcolorlink{\endgroup}%
547 \color{#1}##1\egroup}}%
548 \fi}

\doi Typesetting doi...
549 \def\doi#1{\url{https://doi.org/#1}}

\@makefnmark The definition of \@makefnmark in amsart has a bug. Here we return to the LATEX
one:
550 \def\@makefnmark{\hbox{\@textsuperscript{\normalfont\@thefnmark}}}}

\@makefntext Unlike amsart, we do not indent footnotes:
551 \def\@makefntext{\noindent\@makefnmark
552 \if@enddoc\else
553 \immediate\write\@mainaux%
554 {\string\xdef\string\lastfootnote@page{\the\c@page}}%
555 \fi}
556 \long\def\@footnotetext#1{%
557 \insert\footins{%
558 \normalfont\footnotesize
559 \interlinepenalty\interfootnotelinepenalty
560 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
561 \floatingpenalty\@MM \hsize\columnwidth
562 \@parboxrestore \parindent\normalparindent \sloppy
563 \protected@edef\@currentlabel{%
564 \csname p@footnote\endcsname\@thefnmark}%
565 \@makefntext{%
566 \,\,\rule{z@footnotesep}{\ignorespaces#1\unskip\strut\par}}}
```

4.11 The End

Philosophers love footnotes, since `\raggedbottom`

567 `\raggedbottom\normalsize\normalfont`

568 `\</class>`

References

- [1] Boris Veytsman. *Support files for the Linotype Sabon Fonts*, August 2015. <http://mirrors.ctan.org/fonts/lsabon/>.
- [2] Patrick W. Daly. *Natural Sciences Citations and References (Author-Year and Numerical Schemes)*, February 2009. <http://mirrors.ctan.org/macros/latex/contrib/natbib>.
- [3] American Mathematical Society. *Instructions for Preparation of Papers and Monographs, AMS \LaTeX* , August 2004. <http://mirrors.ctan.org/macros/latex/required/amslatex/classes/instr-1.pdf>.
- [4] Paweł Jackowski. \TeX beauties and oddities. *TUGboat*, 29:207–215, 2008. <http://www.tug.org/TUGboat/tb29-1/tb91pearls.pdf>.

Change History

v1.1	General: Added DOI number 1	\volumenumber: The default is now empty 13
	Added MT Shadow Imprint code 1	
	\@maketitle: Redefined macro . . 17	v1.14
	\@mparswitch: Changed default . . 21	\sf@size: Bug corrected 19
	\@setauthors: Changed font . . . 16	v1.15
	\doi: Added macro 22	General: Added new bibliography command 1
	\EditorialComment: Added macro 21	v1.16
	\ifRESP@mtshadow: Added macro . 8	General: Added \bfdefault 10
	\ifRESP@rpfontauto: Added macro 8	Added documentation about typesetter changes highlighting 1
	rpfont: Added option 8	Deleted Imprint Shadow 1
	\RESP@write@paper@info: Added protection for \ 18	\@makefntext: Added small space after footnote mark 22
	\rpdefault: Added macro 10	\@onlinedate: Added macro . . . 15
	\section: Moved to LaTeX defaults 21	\copyrightnote: Deleted rpdefault 15
	\subsection: Moved to LaTeX defaults 21	\ifRESP@mtshadow: Deleted macro 8
	\subsubsection: Moved to LaTeX defaults 21	\maketitle: Added suppressing first para indentation 17
v1.10	General: Bibliography changes . . . 1	\notes: Added macro 19
v1.11	General: Bibliography changes . . . 1	\onlinedate: Added macro 15
	\papernumber: Added macro . . . 13	rpfont: Deleted option 8
	\RESP@write@paper@info: Added writing info for crossref 18	\publicationmonth: Added \abbrevcurrentmonth 13
v1.12	General: Bibliography changes . . . 1	\rpdefault: Deleted macro 10
v1.13	General: Changed check for line numbering mode 12	\TC: Added macro 22
	New command: titlenote 1	\TCSelect: Added macro 22
	New options: preprint and forthcoming 1	v1.17
	\@settitle: Added titlenotes . . . 16	General: Added collect package . 10
	\copyrightnote: Changed font family for forthcoming mode . 15	Added documentation about new editorial comments 1
	\ifRESP@forthcoming: Added option 9	Bibliography changes: 'inloosecollection' entry 1
	\ifRESP@preprint: Added option . 9	Journal name on the first page footer is now italic 12
	\issuenumber: The default is now empty 13	Online date for forthcoming option moved to the left and up 12
	\publicationmonth: The default is now empty 13	\ECSelect: Added macro 22
	\publicationyear: The default is now empty 13	\EditorialComment: Redefined so levels are supported 21
	\RESP@printlinecount: Added macro 11	\notes: Redefined using collect package 19
	\titlenote: Added command . . 16	v1.18
		General: Journal name in Roman 12
		Online date for forthcoming option moved down 12
		\copyrightnote: Made journal name Roman 15

v1.19	\TCSelect: Switched off colored links	22	v1.28	General: Now ensquote and enquote work correct in the case of embedded quotations . .	1
v1.2	General: Changed font for bibliography	10	v1.3	General: Added penalties	10
	Changed skip for bibliography	10		Ifpdf is no longer needed with modern engines	10
	\@adminfootnotes: Redefined	19		\@setaddresses: Added penalties	20
	\@cleartopmattertags: Redefined	19		\@setauthors: Deleted ifpdf	16
	\@setaddresses: Changed font	20		\@settitle: Deleted ifpdf	16
	\@setauthors: Changed font	16		\copyrightyear: In the forthcoming mode the copyright year is the present year	15
	\copyrightnote: Used \rpdefault for RP font	15		\pdfpaperheight: Deleted ifpdf	11
	\enddoc@text: Redefined	19		\RESP@linecount: Changed check for linecount	12
	\listisep: Redefined	11	v1.30	General: Split URLs at hyphens	10
	\RESP@write@paper@info: Used \protected@write	18	v1.31	\doi: Changed formatting of doi	22
	\section: Changed font	21	v1.32	\enddoc@text: Changed spelling of ‘Acknowledgments’ (Joe Salerno)	19
	\subsection: Changed font	21	v1.33	General: Bibliography change: avoid URLs that duplicate dois	1
	\subsubsection: Changed font	21	v1.34	\@setaddresses: Deleted thin spaces before :	20
v1.20	\@makefnmark: Redefined	22	v1.35	\oddsidemargin: Changed margins	11
v1.21	\paperUrl: Added macro	14	v1.36	General: New bib formatting	1
	\RESP@write@paper@info: Added paperUrl	18	v1.37	General: More tweaks to bib formatting	1
v1.22	General: Now we add empty even page at the end for printed version only	20	v1.4	General: Added footmisc package with ‘bottom’ option	10
v1.23	General: Switched to twoside mode of amsart	9		Added screen option	1
	\oddsidemargin: Made even- and odd- side margins different, except in screen and forthcoming modes	11		Changed bibsection font	10
	\pdfpaperheight: Added to paper width to accomodate larger thumb side margins	11		Changed color of ‘Author’s proof’ mark	12
v1.24	General: New command: authornote	1		\@makefnmark: Redefined	22
	\@setauthors: Added authornotes	16		\EditorialComment: Changed color	21
	\authornote: Added command	16		Changed font	21
v1.25	\oddsidemargin: Changed margins	11		\ifRESP@screen: Added option	9
	\pdfpaperheight: Returned to old page width	11		\paragraph: Moved to LaTeX default	21
v1.26	\@settitle: Added itscshape	16			
v1.27	General: New command: ensquote	1			

<code>\pdfpaperheight</code> : Changed paper	v1.7
in the manuscript mode	General: Added new bibliography
<code>\RESP@linecount</code> : Changed color	fields 1
<code>\subparagraph</code> : Moved to LaTeX	Changed formatting of doi 12
default	<code>\doi</code> : Changed formatting 22
v1.5	<code>\footskip</code> : Decreased to fit doi
General: Changed color for headers	number 11
and footers	v1.8
Color change for links	General: Added blank last page if
Hyperfootnotes are incompatible	the last page is odd 1
with hyperref	<code>\enddoc@text</code> : Changed
<code>\@makefn</code> : Added writing the	bibliography 19
current footnote page to the	<code>\sf@size</code> : Added definition 19
aux file	v1.9
<code>\EditorialComment</code> : Changed	<code>\@setaddresses</code> : Added penalties 20
color	<code>\copyrightnote</code> : Made bullet
<code>\enddoc@text</code> : Added flag	disappear at break 15
<code>\if@enddoc</code> : Added macro	<code>\RESP@bulletboxwidth</code> : Added
<code>\RESP@linecount</code> : Changed color	macro 15
v1.6	
General: Changed bib style	

Index

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.

Symbols		
\,	566	\@makefnmark 453, <u>550</u> , 551
\@and	336	\@makefntext <u>551</u>
\@par	375	\@maketitle 355, <u>366</u> , 430
\@MM	470, 471, 561	\@maketitle@hook . . 352
\@adminfootnotes	368, <u>427</u>	\@manuscriptid 218, 230, 233
\@afterheading	99, 444	\@minus 508, 512, 516, 520, 524
\@authornotes	315, 317, 318, 341	\@mkboth 369
\@cleartopmattertags	<u>428</u>	\@mparswitch <u>527</u>
\@commby	434	\@mparswitchfalse . . 527
\@copyrightnote	169, 188, 197, 283	\@nameuse 441, 446
\@copyrightyear	275, 285, 288	\@ne 132, 134
\@currentlabel	563	\@nx 309, 310, 359, 360, 369
\@dblarg	309	\@onlinedate 189, <u>279</u>
\@dedicatory	372, 375, 435	\@paperUrl 235, 420, 422
\@doinumber	166, 167, 185, 186, 194, 195, 229, 419	\@par 462
\@empty 166, 177, 179, 180, 181, 185, 194, 207, 230, 243, 285, 288, 291, 296, 302, 313, 317, 329, 349, 371, 372, 420, 451, 465, 466		\@parboxrestore . . . 562
\@enddocfalse	448	\@percentchar 403, 405, 407, 409, 411, 413, 415, 417, 419, 422
\@enddoctrue	450	\@plus 267, 508, 509, 512, 513, 516, 517, 520, 524
\@fnsymbol	322, 340	\@secCNTformat <u>504</u>
\@footnotetext 461, 556		\@secpenalty 98, 443
\@for	534, 542	\@setabstract 273, 378
\@ifnotempty	301, 480, 483, 484, 487, 488, 491, 492	\@setabstracta 273
\@keywords	436	\@setaddresses 466, <u>469</u>
\@mainaux	553	\@setauthors <u>328</u> , 371
\@mainrpi	<u>387</u> , 391, 392, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 421, 424	\@setcopyright 347
		\@setthanks 462
		\@settitle <u>319</u> , 370
		\@settranslators . . . 465
		\@startsection 507, 511, 515, 519, 523
		\@subjclass 436
		\@tempa 242, 243, 358, 361, 394, 397, 401, 417
		\@tempc 396, 397
		\@tempcnta 132, 133, 134, 247, 248, 249, 250, 456, 457
		\@temptokena 356, 360
		\@textsuperscript . . 550
		\@thefnmark 454, 550, 564
		\@title 324, 325, 401, 405, 430
		\@titlenotes 311, 313, 314, 324
		\@topnum 346
		\@topsep 333, 334
		\@translators 465
		\@undefined 323, 393, 455
		\@xaddress 431
		\@xauthor 431
		\@xcurraddr 433
		\@xemail 433
		\@xp 310, 356
		\@xtitle 430
		\\ 133, 166, 168, 185, 187, 194, 196, 339, 357

A

\abbrevcurrentmonth	206, 207
\abstract	<u>257</u>
abstract (env.)	4
\abstractbox	262
\abstractname	270
\addpenalty	98, 443
\address	3, 431, 478
\addresses	291, 292, 294, 466, 494
\AddtoEndMatter	7, <u>92</u> , 97, 446
\addvspace	98, 443, 475
\advance	134, 248, 249, 334, 383
\and	299, 305, 399
\andify	350
\articleentry	<u>247</u> , 401
\AtBeginDocument	103
\AtEndDocument	95, 497
\author	3, <u>290</u> , 431, 474
\author@andify	337
\authornote	4, <u>315</u>
\authors 296, 297, 299, 329, 337, 338, 341, 371, 401, 403	

B		E	
\baselineskip . . . . .	. 320, 334, 374, 383	\EC@level	534, 536
\begin	142, 145, 158, 214, 217, 224, 228, 319	\ECSelect	5, <u>533</u>
\begingroup	330, 354, 470, 478, 482, 486, 490, 545	\edef	309, 358, 394, 397
\bfdefault	85	\EditorialComment	5, <u>528</u> , 536
\bfseries . . . . .	. 510, 514, 522, 526	\egroup	272, 426, 463, 532, 547
\bgroup	262, 389, 452, 530, 543	\else 74, 75, 76, 77, 90, 102, 166, 173, 177, 179, 181, 182, 185, 190, 194, 232, 244, 249, 277, 285, 288, 293, 298, 304, 314, 318, 323, 329, 350, 371, 373, 382, 395, 420, 451, 455, 465, 466, 498, 499, 500, 501, 530, 539, 552	
\bibfont	100	\em	323
\bibliography 96, 97, 450		\email	3, 433, 486
\bibliographystyle	95	\emailaddrname 468, 487	
\bibsection	98	\end	144, 147, 160, 212, 221, 326
\bigskipamount . . . . .	. 98, 189, 443, 475	\end@page	193, 243, 244
\bodyfont	<u>10</u>	\endcsname	310, 505, 529, 536, 539, 540, 543, 564
bodyfont (option)	2	\enddoc@text	92, <u>449</u>
C		\endgroup	343, 362, 481, 485, 489, 493, 495, 546
\c@footnote 322, 340, 363		\endlist	272
\c@page	239, 457, 554	\endpage	4, <u>242</u> , 245
\centering	333, 375	\endtrivlist	342
\cfoot	163, 175, 191	\enquote	7
\changes	215, 225, 226	\enspace	505
\chead	170	\ensquote	7
\ClassInfo	252	environments:	
\ClassWarning . . . . .	. . . . . 47, 255, 259	abstract	4
\cleaders	286	notes	6
\cleardoublepage	502	\evensidemargin	<u>108</u>
\clearpage	497	\everypar	364
\closeout	424	\expandafter	397, 529, 535, 539, 542
\clubpenalty	470		
\color	133, 150, 153, 170, 531, 547	F	
\columnwidth	561	\fancyfoot 138, 150, 153	
\commby	434	\fancyhead	137, 139, 140, 142, 145
\contrib	432	\fancyhf	156
\contribs	432		
\copyrightnote	4, <u>283</u>		
\copyrightyear	4, <u>275</u>		
\cs	226		
\csname	310, 505, 529, 535, 539, 540, 543, 564		
\curraddr	3, 433, 482		
\curraddrname	483		
D			
\currentissue . . . . .	. . . . . 164, 179, 192, 201, 231, 411		
\currentmonth	165, 180, 183, 193, 205		
\CurrentOption	49, 50, 51, 52, 53, 66		
\currentpaper . . . . .	. . . . . 209, 231, 413		
\currentvolume . . . . .	. . . . . 164, 177, 178, 192, 199, 231, 409		
\currentyear 165, 181, 183, 193, 203, 231, 285, 288, 407			
D			
\DeclareOptionX 49, 50, 51, 52, 53, 56, 59, 62, 65, 66			
\dedicatory	435		
\def	46, 90, 91, 92, 97, 98, 100, 199, 201, 203, 209, 218, 229, 235, 237, 238, 240, 242, 243, 244, 245, 247, 251, 275, 279, 283, 311, 312, 315, 316, 319, 323, 328, 331, 336, 339, 345, 357, 366, 388, 396, 399, 427, 428, 429, 437, 449, 450, 462, 468, 469, 474, 478, 482, 486, 490, 504, 533, 545, 546, 549, 550, 551, 556		
\define@boolkey	42		
\define@choicekey 10, 26			
\definecollection	439		
\dimen@	383, 384		
\dimen@i	376		
\do	429, 430, 431, 432, 433, 434, 435, 436, 534, 542		
\doi	167, 186, 195, <u>549</u>		
\doinumber . . . . .	. . . . . 5, 224, 229, 230		
\dp	560		

\fancypagestyle ... 155	\hskip 286	\interfootnotelinepenalty 559
\fi 23, 39, 78, 80, 86, 88, 91, 101, 105, 113, 117, 127, 128, 135, 148, 151, 154, 161, 167, 178, 179, 181, 184, 186, 195, 198, 207, 234, 241, 244, 249, 261, 273, 278, 285, 288, 295, 300, 306, 314, 318, 323, 344, 351, 371, 377, 385, 398, 423, 425, 459, 460, 464, 465, 466, 475, 503, 532, 537, 540, 548, 555	\hspace 280 \Hy@colorlink 545 \Hy@colorlinksfalse 544 \Hy@endcolorlink .. 546 \hypersetup .. 74, 75, 76, 77, 78, 325, 338	\interlinepenalty 470, 559 \issuenumber 4, 201 \item 270, 335 \itemindent 266 \itscshape 323 \itshape 139, 144, 163, 176, 191, 192, 375, 518
	I	J
\floatingpenalty .. 561	\if@enddoc ... 447, 552	\jobname 391
\flushright 470	\if@filesw 390	K
\footins 458, 557	\if@titlepage 380	\keywords 436
\footnote 313, 314, 317, 318	\ifcase 12, 28	L
\footnoteseq .. 560, 566	\ifFileExists 80, 88, 251	\labelwidth 264
\footnotesize 139, 140, 144, 163, 175, 189, 191, 333, 375, 558	\ifnum 134, 239, 457	\LARGE 321
\footrulewidth 122	\ifodd 249	\large 341, 510
\footskip 124	\ifRESP@firstingroup 467, 474	\lastbox 364
forthcoming (option) . 3	\ifRESP@fontauto . 2, 79	\lastfootnote@page 455, 456, 554
\fullwidthdisplay . 268	\ifRESP@forthcoming 63, 77, 114, 174, 276, 501	\leftmargin 265
	\ifRESP@lsabon ... 6, 81	\let ... 96, 268, 349, 429, 453, 454, 462
G	\ifRESP@manuscript . 54, 74, 102, 127, 149, 498, 533, 541	\lhead 158, 189
\g@addto@macro 92, 294, 299, 305, 314, 318	\ifRESP@mtshadow . 8, 89	\linebreak 339
\gdef 205, 206, 207, 218, 229, 235, 279, 292, 297, 303, 313, 317, 535, 543	\ifRESP@natbib 93	\list 264
\global 262, 376	\ifRESP@preprint 60, 76, 128, 152, 162, 500	\listisep 119
	\ifRESP@printlinecount . 125, 129, 141, 157	\listparindent 266
H	\ifRESP@rpfontauto 4, 87	\LoadClass 68
\hbox 286, 550	\ifRESP@screen 57, 75, 110, 499	\long 46, 556
\headheight 121	\ifx 166, 177, 179, 180, 181, 185, 194, 207, 230, 243, 258, 273, 285, 288, 291, 296, 302, 313, 317, 323, 329, 349, 371, 372, 393, 420, 451, 455, 465, 466, 529, 539	\loop 133
\headrulewidth 122	\ignorespaces 357, 480, 481, 484, 488, 492, 566	M
\headsep 120	\immediate 553	\makeatletter 442
\href 489	\includecollection . 446	\makeatother 445
\hsize 561	\indent ... 483, 487, 491	\maketitle 4, 258, 260, 345, 430
	\input 254	\MakeUppercase 360
	\insert 458, 557	manuscript (option) .. 2
		\manuscriptid 5, 214, 218, 219
		\marginpar 531
		\marginparwidth ... 531
		\markboth 359
		\medskip 458
		\medskipamount 99, 119, 444
		N
		\natbib 42

S	<code>\string</code> 310, 399, 401, 554	<code>\trivlist</code> 332
<code>\savebox</code> 131	<code>\strut</code> 566	
<code>\scdefault</code> 84	<code>\strutbox</code> 560	U
<code>screen</code> (option) 3	<code>\subjclass</code> 436	<code>\unskip</code> 480,
<code>\scriptsize</code> 133, 150, 153, 170	<code>\subparagraph</code> 523	484, 488, 492, 566
<code>\scshape</code> 321	<code>\subsection</code> 511	<code>\upshape</code> 289
<code>\section</code> 507	<code>\subsubsection</code> 515	<code>\url</code> 172, 493, 549
<code>\setbox</code> 262, 364	<code>\suppresscomma</code> 7	<code>\urladdr</code> 3, 490
<code>\setcounter</code> ... 237, 239	T	<code>\urlstyle</code> 73
<code>\setlength</code> ... 103,	<code>\TC</code> 5, 538	<code>\usebox</code> ... 143, 146, 159
104, 106, 107,	<code>\TC@level</code> 542, 543	
108, 109, 111,	<code>\TCSelect</code> 6, 541	V
112, 115, 116,	<code>\textbf</code> 270, 462	<code>\val</code> 10, 26
118, 120, 121, 124	<code>\textbullet</code> ... 282, 286	<code>\vglue</code> 263
<code>\settowidth</code> 282	<code>\textcopyright</code> 284, 287	<code>\volumenumber</code> ... 4, 199
<code>\sf@size</code> 437	<code>\textheight</code> 106	<code>\vskip</code> 99, 384, 444
<code>\shortauthors</code> 3, 139, 144, 286,	<code>\textit</code> 140	<code>\vtop</code> 262, 375
302, 303, 305,	<code>\textwidth</code> ... 106, 189	W
349, 350, 356, 369	<code>\thanks</code> 4, 331, 435	<code>\widowpenalty</code> 471
<code>\shorttitle</code> 140, 349, 356, 369	<code>\thanks@warning</code> ... 331	<code>\write</code> 392, 553
<code>\sloppy</code> 562	<code>\thankses</code> 451	X
<code>\Small</code> . 99, 100, 444, 473	<code>\the</code> .. 133, 249, 250,	<code>\xcontribs</code> 432
<code>\space</code> 260,	277, 359, 360, 554	<code>\xdef</code> 554
270, 399, 484, 488	<code>\the footnote</code> .. 322, 340	
<code>\splitmaxdepth</code> 560	<code>\thepage</code> .. 139, 140, 144	Y
<code>\splittopskip</code> 560	<code>\thispagestyle</code> 348	<code>\year</code> 277
<code>\start@page</code> 193, 238,	<code>\title</code> 3, 430	
240, 394, 401, 415	<code>\titlenote</code> 4, 311	Z
<code>\startpage</code> 4, 237, 245, 250	<code>\toccontribs</code> 432	<code>\z@</code> 189, 239, 264, 266,
	<code>\toks</code> 357, 359	267, 346, 363,
	<code>\toks@</code> 356, 360	364, 477, 507,
	<code>\topmargin</code> 118	511, 515, 519, 566