Typesetting Articles for *Res Philosophica*\(^*\)\(^†\)

Boris Veytsman\(^‡\)

2019/04/14, v1.35

Abstract


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 5

3 Special Notes 6
   3.1 Bibliography 7

4 Implementation 9
   4.1 Options 9
   4.2 Loading Classes and Packages 11
   4.3 Page Dimensions and Paragraphing 12
   4.4 Headers 12
   4.5 Top Matter Macros 14
   4.6 Typesetting Top Matter 18
   4.7 Notes 21
   4.8 Typesetting End Matter 21
   4.9 Sectioning 23
   4.10 Additional Commands 24
   4.11 The End 25

\(^*\)\(^©\) 2012, 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 \LaTeX. Note that the journal is typeset in Linotype Sabon. The users may buy the fonts and install their free \TeX{} support [1], or use the options \texttt{bodyfont=cm} and \texttt{rfont=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 \TeX{}Live, Mik\TeX{} and other major distributives. If you bought Linotype Sabon, you need to install the package \texttt{lsabon} [1]. To use URW Garamond, you need to download the \texttt{pfb} files from a CTAN mirror (http://mirror.ctan.org/fonts/urw/garamond/), install them in the directory \texttt{fonts/type1/urw/garamond} under $\texttt{TEXMFLOCAL}$ and run \texttt{texhash}.

2.2 Invocation and Options

To use the class put in the preamble of your document

\texttt{\documentclass[⟨options⟩]{resphilosophica}}

The class \texttt{resphilosophica} internally loads \texttt{amsart}, and therefore all class options for \texttt{amsart} are technically valid. However, most of them are not especially meaningful for \texttt{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

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

\texttt{option bodyfont}

The option \texttt{bodyfont} can have three values: \texttt{sabon} for Sabon/Garamond fonts,
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.

The option manuscript is intended to facilitate the communications between 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 marginal commentaries in the manuscript.

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

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

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

The preferred solution for bibliography is natbib package [2]. The option 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\{\langle ShortTitle\rangle\}\{\langle FullTitle\rangle\}

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 one of amsart [3] (and different from the standard \LaTeX). For each author a
separate command `\author` should be used, followed by `\address` and (optionally) `\curaddr`, `\email` and `\urladdr`.

`\shortauthors` In some cases the authors list may be too long for the running head, even 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 `\LaTeX`), `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 `\LaTeX`.

`\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` 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.

The macros \volumenumber, \issuenumber, \publicationyear, \publicationmonth, \papernumber, \startpage, \endpage set up the corresponding data for the paper, for example:

\volumenumber{88}
\issuenumber{1--2}
\publicationyear{2012}
\publicationmonth{January--February}
\papernumber{2}
\startpage{1}
\endpage{39}

Note that if the argument of \endpage is empty, \LaTeX{} 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}

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).

Normally you do not need to set the DOI of the paper: \LaTeX{} 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.

Instead of setting \startpage, one can use 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.

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.

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

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 \ECSelect{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.

The macro \TC[(level)]{text} makes \text{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}.

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

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 entry\(^1\), for example, the information about translators, editors of critical editions, etc:

```latex
@book{Knuth94:TheTeXbook, 
address = {Reading, MA}, 
author = {Knuth, Donald Ervin}, 
titlenote = {Illustrations by Duane Bibby}, 
publisher = {Addison-Wesley Publishing Company}, 
series = {Computers \& Typesetting A}, 
title = {The \TeX book}, 
year = {1994}, 
}
```

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

Sometimes Bib\TeX inserts an unwanted comma into an entry, for example, in the following one:

```latex
@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}, 
}\suppresscomma
```

\(^1\)This field was proposed by Maureen Shupsky for the Annals of Mathematics bibliography style.
The command \suppresscomma suppresses the next comma:

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

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.

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}

\textbf{Acknowledgments}

This package was commissioned by the journal \textit{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:

```latex
\RequirePackage{xkeyval}
```

```latex
\ifRESP@fontauto
First, check whether the user have the body font explicitly configured:
\newif\ifRESP@fontauto
\RESP@fontautotrue
\ifRESP@rpfontauto
Same for *Res Philosophica* font
\newif\ifRESP@rpfontauto
\RESP@rpfontautotrue
\ifRESP@lsabon
Are we using linotype sabon?
\newif\ifRESP@lsabon
\RESP@lsabonfalse
\ifRESP@mtshadow
Are we using MT Imprint Shadow?
% \newif\ifRESP@mtshadow
% \RESP@mtshadowfalse
```

```latex
\define@choicekey*+{resphilosophica.cls}{bodyfont}[\val\nr]{auto, sabon, lsabon, cm}[auto]{% 
\ifcase\nr\relax 
\RESP@fontautotrue 
\or 
\RESP@fontautofalse 
\RESP@lsabontrue 
\or 
\RESP@fontautofalse 
\RESP@lsabonfalse 
\fi}{% 
\PackageWarning{resphilosophica}{The option bodyfont must be auto, sabon or cm. Using auto}\RESP@fontautotrue
```

```latex
\define@choicekey*+{resphilosophica.cls}{rpfont}[\val\nr]{auto, imprint, imprintshadow, cm}[auto]{% 
\ifcase\nr\relax 
\RESP@rpfontautotrue 
\or 
\RESP@rpfontautofalse 
\RESP@mtshadowtrue 
\fi}{% 
\PackageWarning{resphilosophica}{The option rpfont must be auto, imprint, imprintshadow or cm. Using auto}\RESP@rpfontautotrue
```

```latex
\define@choicekey*+{resphilosophica.cls}{mtshadow}[\val\nr]{auto, true, false}[false]{% 
\PackageWarning{resphilosophica}{The option mtshadow must be auto, true or false. Using false}\RESP@mtshadowfalse
```
natbib Checking natbib option:
\define@boolkey+{resphilosophica.cls}[RESP@]{natbib}[true]{}{\
  PackageWarning{resphilosophica}{The option natbib must be yes or no. Using yes}}
\RESP@natbibtrue

The size-changing options produce a warning:
\long\def\RESP@size@warning#1{\ClassWarning{RESPart}{Size-changing option #1 will not be honored}}%
\DeclareOptionX{8pt}{\RESP@size@warning{\CurrentOption}}%
\DeclareOptionX{9pt}{\RESP@size@warning{\CurrentOption}}%
\DeclareOptionX{10pt}{\RESP@size@warning{\CurrentOption}}%
\DeclareOptionX{11pt}{\RESP@size@warning{\CurrentOption}}%
\DeclareOptionX{12pt}{\RESP@size@warning{\CurrentOption}}%

\ifRESP@manuscript Manuscript mode:
\newif\ifRESP@manuscript
\RESP@manuscriptfalse
\DeclareOptionX{manuscript}{\RESP@manuscripttrue}
\fi

\ifRESP@screen Screen mode:
\newif\ifRESP@screen
\RESP@screenfalse
\DeclareOptionX{screen}{\RESP@screentrue}
\fi

\ifRESP@preprint Whether we are in the preprint mode
\newif\ifRESP@preprint
\RESP@preprintfalse
\DeclareOptionX{preprint}{\RESP@preprinttrue}
\fi

\ifRESP@forthcoming Whether we are in the forthcoming mode
\newif\ifRESP@forthcoming
\RESP@forthcomingfalse
\DeclareOptionX{forthcoming}{\RESP@forthcomingtrue}
\fi

All other options are passed to amsart:
\DeclareOptionX{*}{\PassOptionsToClass{\CurrentOption}{amsart}}

And executing options:
\ProcessOptionsX
4.2 Loading Classes and Packages

We use \texttt{amsart} since it has nice features for front matter:
\begin{verbatim}
\LoadClass[noamsfonts,twoside]{amsart}
\end{verbatim}

Some packages:
\begin{verbatim}
\RequirePackage{microtype, fancyhdr, xcolor, lastpage, collect}
\PassOptionsToPackage{hyphens}{url}
\RequirePackage[hyperfootnotes=false]{hyperref}
\urlstyle{rm}
\ifRESP@manuscript\hypersetup{colorlinks,allcolors=blue}\else
  \ifRESP@screen\hypersetup{colorlinks,allcolors=blue}\else
    \ifRESP@preprint\hypersetup{colorlinks,allcolors=blue}\else
      \ifRESP@forthcoming\hypersetup{colorlinks,allcolors=blue}\else
        \hypersetup{hidelinks}\fi\fi\fi\fi\fi
\end{verbatim}

The font to use depends on the options. Note that \LaTeX{} cannot reliably
determine whether a binary file like \texttt{SabonLTRom.pfb} exists in the system, so we
check for the \texttt{.fd} file instead (sigh):
\begin{verbatim}
\ifRESP@fontauto
  \IfFileExists{t1lsb.fd}{\RESP@lsabontrue}{\RESP@lsabonfalse}\fi
\end{verbatim}

If the user wants, we load Sabon and URW Garamond. Note that mathdesign
defines \texttt{sc} to be \texttt{fsc}, so we need to redefine it for Sabon. Also, it defines \texttt{b} to \texttt{mb}.
so we redefine it again.
\begin{verbatim}
\ifRESP@lsabon
  \RequirePackage[mdugm]{mathdesign}
  \RequirePackage[rmdefault]{lsabon}
  \renewcommand\scdefault{sc}
  \renewcommand{\bfdefault}{b}
\fi
\end{verbatim}
Checking the existence of \texttt{miih} font metrics:
\begin{verbatim}
\ifRESP@rpfontauto
  \% \IfFileExists{t1miih.fd}{\RESP@mtshadowtrue}{\RESP@mtshadowfalse}\fi
\end{verbatim}
\texttt{\rpdefault} This is the font for \textit{Res Philosophica}:
\begin{verbatim}
\%\ifRESP@mtshadow
  \% \def\rpdefault{miih}\else
  \% \def\rpdefault{\rmdefault}\fi
\end{verbatim}

\texttt{\AddtoEndMatter} A syntax sugar to add something after signature:
\begin{verbatim}
\AddtoEndMatter#1\{\g@addto@macro\enddoc@text{#1}}
\end{verbatim}

And loading natbib:
\begin{verbatim}
\ifRESP@natbib
  \RequirePackage[round]{natbib}
  \AtEndDocument{\bibliographystyle{resphilosophica}}
  \let\RESP@bibliography=\bibliography
  \def\bibliography#1\{\AddtoEndMatter{\RESP@bibliography#1}}
\end{verbatim}
4.3 Page Dimensions and Paragraphing

\pdfpaperwidth
\pdfpaperheight
\textwidth
\textheight
The size of the type block:
\setlength{\textwidth}{318pt}
\setlength{\textheight}{540pt}
\evensidemargin
\oddsidemargin
The margins:
\setlength{\evensidemargin}{-0.125in}
\setlength{\oddsidemargin}{-0.25in}
\ifRESP@screen
\setlength{\evensidemargin}{-0.1875in}
\setlength{\oddsidemargin}{-0.1875in}
\fi
\ifRESP@forthcoming
\setlength{\evensidemargin}{-0.1875in}
\setlength{\oddsidemargin}{-0.1875in}
\fi
\topmargin
Top margin
\setlength{\topmargin}{-48pt}
\listisep
This is the space around lists. amsart defines it as \smallskipamount. We slightly increase it:
\listisep\medskipamount

4.4 Headers

\headsep
Separation between the header and the body
\setlength{\headsep}{14pt}
\headheight
The height of the headers:
\setlength{\headheight}{12pt}
\headrulewidth
\footrulewidth
We do not want decorative rules in the journal:
\renewcommand{\headrulewidth}{0pt}
\renewcommand{\footrulewidth}{0pt}
Separation between the footer and the body
\setlength{\footskip}{20pt}

Do we want to print line count?
\newif\ifRESP@printlinecount
\RESP@printlinecountfalse
\ifRESP@manuscript\RESP@printlinecounttrue\fi
\ifRESP@preprint\RESP@printlinecounttrue\fi

This is the box displayed in the manuscript mode
\ifRESP@printlinecount
\newsavebox{\RESP@linecount}
\savebox{\RESP@linecount}[4em][t]{\parbox[t]{4em}{
\@tempcnta\@ne\relax
\loop\color{red}\scriptsize\the\@tempcnta}\advance\@tempcnta by \@ne\ifnum\@tempcnta<47\repeat}}
\fi

It is easy to set up headers with fancyhdr:
\pagestyle{fancy}
\fancyhead{}
\fancyfoot{}
\fancyhead[LE]{\footnotesize\textit{\shortauthors}}
\fancyhead[RO]{\footnotesize\textit{\shorttitle} \quad \thepage}
\ifRESP@printlinecount
\fancyhead[LE]{\begin{picture}(0,0)\put(-26,-22){\usebox{\RESP@linecount}}\end{picture}\footnotesize\thepage \quad \textit{\shortauthors}}
\fancyhead[LO]{\begin{picture}(0,0)\put(-21,-22){\usebox{\RESP@linecount}}\end{picture}}
\fi
\ifRESP@manuscript
\fancyfoot[C]{\scriptsize\color{red}Author's Proof}
\fi
\ifRESP@preprint
\fancyfoot[C]{\scriptsize\color{red}Author's Pre-Print}
\fi

The first page has the special headers. The style firstpage is invoked by amsart: here we just redefine it.
\fancypagestyle{firstpage}{%
\fancyhf{}%
\ifRESP@printlinecount
\lhead{\begin{picture}(0,0)\put(-26,-22){\usebox{\RESP@linecount}}\end{picture}}%
\end{picture}}
\fi
\ifRESP@manuscript
\fancyfoot[C]{\scriptsize\color{red}Author's Proof}%
\fi
\ifRESP@preprint
\fancyfoot[C]{\scriptsize\color{red}Author's Pre-Print}%
\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
\def\volumenumber#1{\def\currentvolume{#1}}
\volumenumber{}

\issuenumber This sets the issue of the paper:
\def\issuenumber#1{\def\currentissue{#1}}
\issuenumber{}

\publicationyear
This sets the year of the paper
\def\publicationyear#1{\def\currentyear{#1}}
\publicationyear{}

\publicationmonth
This sets the month of the paper
\newcommand\publicationmonth[2][]{\gdef\currentmonth{#2} %
  \gdef\abbrevcurrentmonth{#1} %
  \ifx\abbrevcurrentmonth\@empty\gdef\abbrevcurrentmonth{#2}\fi
}\publicationmonth{}

\papernumber
This is absent from the \issueinfo.
\def\papernumber#1{\def\currentpaper{#1}}
papernumber{0000}

% \end{macro}

% \begin{macro}{\manuscriptid}
\def\manuscriptid#1{\gdef\@manuscriptid{#1}}
\manuscriptid{}

% \end{macro}

% \begin{macro}{\doinumber}
\def\doinumber#1{\gdef\@doinumber{#1}}
\doinumber{\ifx\@manuscriptid\@empty
  \text{10.11612/resphil.\currentyear.\currentvolume.\currentissue.\currentpaper}
\else
  \text{10.11612/resphil.\@manuscriptid}
\fi}

\paperUrl
The url to submit to crossref
\def\paperUrl#1{\gdef\@paperUrl{#1}}
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...
\def\startpage#1{
pagening{arabic}\setcounter{page}{#1} %
This macro again has a twist in it: if the argument is not set, it calculates the last page number itself.
\endpage
\pagespan
This macro is different from the one provided by \texttt{amsart} because we want to have the option of automatic calculation of the last page number.
\pagespan{1}{}
\articleentry
This is necessary for \texttt{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
\articleentry{#1#2}{\startpage{#1}\endpage{#2}}
\prevpaper
This sets the previous paper location and reads the information from the previous paper
\prevpaper{#1}{\IfFileExists{#1.rpi}{\ClassInfo{resphilosophica}{Reading first page number from the file #1.rpi}}{\ClassWarning{resphilosophica}{Cannot find the file #1.rpi. Did you run \texttt{latex} on the previous paper?}}}
abstract
We slightly redefine abstract comparing to \texttt{amsart} conventions:
\renewenvironment{abstract}\%{\ifx\maketitle\relax\ClassWarning{resphilosophica}{Abstract should precede \protect\maketitle \texttt{space} in AMS derived classes}\%\fi}{\global\setbox\abstractbox=\vtop\bgroup\vglue1pc\list{}\labelwidth\z@\leftmargin3pc \rightmargin\leftmargin\listparindent\normalparindent \itemindent\z@\parsep\z@ \itemsep\z@ \itemplus\p@\let\fullwidthdisplay\relax\%\item[]\normalfont\normalsize\textbf{abstractname}:\%\space}
\copyrightyear This is the copyright year in case it does not coincide with the publication year:
\def\copyrightyear#1{\def\@copyrightyear{#1}}
\ifRESP@forthcoming
\copyrightyear{\the\year}\else
\copyrightyear{}\fi
\onlinedate Online date for forthcoming issues
\def\onlinedate#1{\gdef\@onlinedate{#1}}
\onlinedate{\hspace*{5em}}
\RESP@bulletboxwidth This is the width of a box with a bullet for copyright note:
\newlength\RESP@bulletboxwidth
\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]).
\def\copyrightnote#1{\def\@copyrightnote{#1}}
\copyrightnote{\textcopyright~\ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~\shortauthors\lowercase\quad\textbullet\quad\hskip\RESP@bulletboxwidth\textcopyright~\ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~{\upshape Res~Philosophica}}%
\author The base class puts into \addresses the strange line \author{}. We correct this:
\renewcommand{\author}{[2]{}{%
\ifx\@empty\addresses
\gdef\addresses{\author{#2}}%
\else
\g@addto@macro\addresses{\author{#2}}%
\fi
\ifx\@empty\authors
\gdef\authors{#2}%
\else
\g@addto@macro\authors{\and#2}%
\fi
\@ifnotempty{#1}{%
\ifx\@empty\shortauthors
\gdef\shortauthors{#1}%
\else
\g@addto@macro\shortauthors{\and#1}%
\fi
}\}%
\edef\author{} \setcopyright{\@nx\@dblarg \@xp\@nx \csname\string\author\endcsname}

\titlenote This command adds an entry to the list of titlenotes
\def\@titlenotes{}\%
\def\titlenote#1{\ifx\@empty\@titlenotes\gdef\@titlenotes{\footnote{#1}}\% \else\g@addto@macro\@titlenotes{\footnote{#1}}\fi}

\authornote This command adds an entry to the list of titlenotes
\def\@authornotes{}\%
\def\authornote#1{\ifx\@empty\@authornotes\gdef\@authornotes{\footnote{#1}}\% \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:
\def\@settitle{\begin{center} \baselineskip20\p@elax \LARGE \scshape \renewcommand\thefootnote{\@fnsymbol\c@footnote} \ifx\itscshape\@undefined\else\def\em{\itscshape}\fi \@title\@titlenotes \hypersetup{pdftitle=\@title} \end{center} }

\setauthors Now we typeset authors according to our specs. Again, we use this occasion to set some PDF information:
\def\@setauthors{\ifx\authors\@empty\relax \else \begingroup \def\thanks{\protect\thanks@warning} \trivlist \centering\footnotesize \@topsep30\p@elax \advance\@topsep by -\baselineskip \item \relax \def\@@and{{and}} \author@andify\authors \hypersetup{pdfauthor=\authors} \def\\{\protect\linebreak} \renewcommand\thefootnote{\@fnsymbol\c@footnote} \large\normalfont\authors\@authornotes \endtrivlist \endgroup \fi}
We redefine \maketitle—mostly to prevent uppercasing of shorttitle and to write down the journal information:

\def\maketitle{
\par
\@topnum\z@ % this prevents figures from falling at the top of page 1
\@setcopyright
\thispagestyle{firstpage}% this sets first page specifications
\@ifx@empty\shortauthors \let\shortauthors\shorttitle
\else \andify\shortauthors
\fi
\@maketitle@hook
\RESP@write@paper@info
\begingroup
\@maketitle
\toks\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
\toks4{\def\{ \ignorespaces}% defend against questionable usage
\edef\@tempa{\@nx\markboth{\the\toks4\@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
\@tempa
\endgroup
\c@footnote\z@
\everypar{\setbox\z@\lastbox\everypar{}}%
}

We delete top space introduced by amsart:

\def\@maketitle{%
\normalfont\normalsize
\@adminfootnotes
\@mkboth{\@nx\shortauthors}{\@nx\shorttitle}%
\@settitle
\@ifx@empty\authors \else \@setauthors \fi
\@ifx@empty\@dedicatory \else 
\baselineskip18\p@
vtop{\centering{\footnotesize\itshape\@dedicatory\@@par}\
global\dimen0i\prevdepth}\prevdepth\dimen0i
\fi
\fi
\@setabstract
\normalsize
@if@titlepage
\newpage
\else
\dimen034\p0 \advance\dimen0-\baselineskip
\vskip\dimen0\relax
\fi
\fi

The stream for the rpi file:

\newwrite\@mainrpi

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

The next lines are for crossref software:

We just define this to noop:

We typeset thankses at the end of the paper so we do not clear them:
\sf@size It seems there is a bug in \texttt{mdugm} when calculating \sf@size. Here we work around it:
\begin{verbatim}
\def\sf@size{7}\
\end{verbatim}

4.7 Notes

\notes This is like \texttt{bibliography}:
\begin{verbatim}
\definecollection{notes}
\newenvironment{notes}{%}{%}
\makeatletter
\par\addpenalty\@secpenalty\addvspace{\bigskipamount}\
\noindent \Small #1:\par\nobreak\vskip\medskipamount\@afterheading
\makeatother
\end{verbatim}

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
\begin{verbatim}
\newif\if@enddoc
@enddocfalse
\end{verbatim}
\enddoc@text We put thankses into end matter. Also, we redefine bibliography back to the original definition in case someone writes \texttt{AddtoEndMatter\bibliography{}}:
\begin{verbatim}
\def\enddoc@text{%\@enddoctrue\def\bibliography{\RESP\bibliography}%.}
\ifx\@empty\thankses\else
\bgroup
\let\@makefnmark\relax
\let\@thefnmark\relax
\end{verbatim}
Check, whether we are at the same page as the last footnote; if yes, add medskip.
\begin{verbatim}
\ifx\lastfootnote@page\@undefined\else
\@tempcnta=\lastfootnote@page\relax
\ifnum\c@page=\@tempcnta\relax
\insertfootins{\medskip}%
\fi
\fi
\end{verbatim}
A group of authors is separated by a skip from another group. This macro checks whether this is the first one.

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:

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

\@seccntformat

We do not want our numbers to be upright and medium series, as amsart wants:
\def\@seccntformat#1{\csname the#1\endcsname\enspace}

\section We want our sections to be large and bold:
\renewcommand\section{\@startsection{section}{1}{0pt}{-3.5ex \plus -1ex \minus -.2ex}{2.3ex \plus .2ex}{\normalfont\large\bfseries}}

\subsection Subsections are bold
\renewcommand\subsection{\@startsection{subsection}{2}{0pt}{-3.25ex \plus -1ex \minus -.2ex}{1.5ex \plus .2ex}{\normalfont\normalsize\bfseries}}

\subsubsection Subsubsections are normalsize and italic
\renewcommand\subsubsection{\@startsection{subsubsection}{3}{0pt}{-3.25ex \plus -1ex \minus -.2ex}{1.5ex \plus .2ex}{\normalfont\normalsize\itshape}}

\paragraph Paragraphs:
\renewcommand\paragraph{\@startsection{paragraph}{4}{0pt}{3.25ex \plus 1ex \minus .2ex}{1em}{\normalfont\normalsize\bfseries}}

\subparagraph Paragraphs:
\renewcommand\subparagraph{\@startsection{subparagraph}{5}{0pt}{3.25ex \plus 1ex \minus .2ex}{1em}{\normalfont\normalsize\bfseries}}
4.10 Additional Commands

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

\EditorialComment This macro is noop in normal mode, but is a tiny marginpar in the manuscript mode
\newcommand\EditorialComment[2][0]{%
\expandafter\ifx\csname EditorialComment@#1\endcsname\relax
\else\bgroup
\marginparwidth=200pt\marginpar{\color{red}\aggedright#2}\egroup\fi}

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

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

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

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

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

\@makefntext Unlike amsart, we do not indent footnotes:
\def\@makefntext{\noindent\@makefntext{\@indent\@makefntext}}
\@makefntext{\@indent\@makefntext}}
4.11 The End

Philosophers love footnotes, since \raggedbottom

\raggedbottom\normalsize\normalfont

References


Change History

v1.1
\@maketitle: Redefined macro . . 19
\@mparswitch: Changed default . 24
\setauthors: Changed font . . . 18
\EditorialComment: Added macro 24
\RESP@write@paper@info: Added
  protection for \ .................. 20
\doi: Added macro ............... 24
\ifRESP@mtshadow: Added macro . . 9
\ifRESP@rpfontauto: Added
  macro ................................ 9
\rpdefault: Added macro ...... 11
\section: Moved to LaTeX
  defaults .......................... 23
\subsection: Moved to LaTeX
  defaults .......................... 23
\subsubsection: Moved to LaTeX
  defaults .......................... 23
General: Added DOI number .... 1
  Added MT Shadow Imprint code 1
\rpfont: Added option ............ 9

v1.10
General: Bibliography changes ... 1

v1.11
\RESP@write@paper@info: Added
  writing info for crossref ... 20
\papernumber: Added macro ... 15
General: Bibliography changes ... 1

v1.12
General: Bibliography changes ... 1

v1.13
\settite: Added titlenotes ... 18
\RESP@printlinecount: Added
  macro ................................ 13
\copyrightnote: Changed font
  family for forthcoming mode . 17
\ifRESP@forthcoming: Added
  option ................................ 10
\ifRESP@preprint: Added option 10
\issuenumber: The default is now
  empty ............................... 14
\publicationmonth: The default is
  now empty .......................... 15
\publicationyear: The default is
  now empty .......................... 15
\titlenote: Added command ... 18
\volumenumber: The default is now
  empty .......................... 14
General: Changed check for line
  numbering mode .................. 13
New command: titlenote ........ 1
New options: preprint and
  forthcoming ....................... 1

v1.14
\@sfontsize: Bug corrected ....... 21

v1.15
General: Added new bibliography
  command .......................... 1

v1.16
\@makefntext: Added small space
  after footnote mark ............ 24
\@onlinedate: Added macro ...... 17
\TC: Added macro ................. 24
\TCSelcet: Added macro .......... 24
\copyrightnote: Deleted
  rpdefault .......................... 17
\ifRESP@mtshadow: Deleted macro 9
\maketitle: Added suppressing
  first para indentation .......... 19
\notes: Added macro ............. 21
\onlinedate: Added macro ....... 17
\publicationmonth: Added
  \abbrevcurrentmonth ............. 15
\rpdefault: Deleted macro ..... 11
General: Added \bfdefault ..... 11
  Added documentation about
  typesetter changes highlighting 1
  Deleted Imprint Shadow ....... 1
\rpfont: Deleted option ......... 9

v1.17
\ECSelect: Added macro ........ 24
\EditorialComment: Redefined so
  levels are supported ............ 24
\notes: Redefined using collect
  package .......................... 21
General: Added collect package ... 11
  Added documentation about
  new editorial comments ......... 1
Bibliography changes:
  ‘inloosecollection’ entry ..... 1
  Journal name on the first page
  footer is now italic .......... 13

26
<table>
<thead>
<tr>
<th>Command</th>
<th>Change Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>\RESP@linecount</td>
<td>Changed color</td>
<td>13</td>
</tr>
<tr>
<td>\ifRESP@screen</td>
<td>Added option</td>
<td>10</td>
</tr>
<tr>
<td>\paragraph</td>
<td>Moved to LaTeX default</td>
<td>23</td>
</tr>
<tr>
<td>\pdfpaperheight</td>
<td>Changed paper in the manuscript mode</td>
<td>12</td>
</tr>
<tr>
<td>\subparagraph</td>
<td>Moved to LaTeX default</td>
<td>23</td>
</tr>
<tr>
<td>General</td>
<td>Added footmisc package with ‘bottom’ option</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Added screen option</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Changed bibsection font</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Changed color of “Author’s proof’ mark</td>
<td>13</td>
</tr>
</tbody>
</table>

v1.5

<table>
<thead>
<tr>
<th>Command</th>
<th>Change Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>@makefntext</td>
<td>Added writing the current footnote page to the aux file</td>
<td>24</td>
</tr>
<tr>
<td>\EditorialComment</td>
<td>Changed color</td>
<td>24</td>
</tr>
<tr>
<td>\RESP@linecount</td>
<td>Changed color</td>
<td>13</td>
</tr>
<tr>
<td>\enddoc@text</td>
<td>Added flag</td>
<td>21</td>
</tr>
<tr>
<td>\if\enddoc</td>
<td>Added macro</td>
<td>21</td>
</tr>
<tr>
<td>General</td>
<td>Changed color for headers and footers</td>
<td>13</td>
</tr>
</tbody>
</table>

Color change for links | 1
Hyperfootnotes are incompatible with hyperref | 11

v1.6

<table>
<thead>
<tr>
<th>Command</th>
<th>Change Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>\EditorialComment</td>
<td>Changed color</td>
<td>24</td>
</tr>
<tr>
<td>@setaddresses</td>
<td>Added penalties</td>
<td>22</td>
</tr>
<tr>
<td>\RESP@bulletboxwidth</td>
<td>Added macro</td>
<td>17</td>
</tr>
<tr>
<td>\copyrightnote</td>
<td>Made bullet disappear at break</td>
<td>17</td>
</tr>
</tbody>
</table>

v1.7

<table>
<thead>
<tr>
<th>Command</th>
<th>Change Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>\pdfpaperheight</td>
<td>Changed paper in the manuscript mode</td>
<td>12</td>
</tr>
<tr>
<td>\subparagraph</td>
<td>Moved to LaTeX default</td>
<td>23</td>
</tr>
<tr>
<td>General</td>
<td>Added footmisc package with ‘bottom’ option</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Added screen option</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Changed bibsection font</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Changed color of “Author’s proof’ mark</td>
<td>13</td>
</tr>
</tbody>
</table>

v1.8

<table>
<thead>
<tr>
<th>Command</th>
<th>Change Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>\enddoc@text</td>
<td>Changed bibliography</td>
<td>21</td>
</tr>
<tr>
<td>\sf@size</td>
<td>Added definition</td>
<td>21</td>
</tr>
<tr>
<td>General</td>
<td>Added blank last page if the last page is odd</td>
<td>1</td>
</tr>
</tbody>
</table>

v1.9

<table>
<thead>
<tr>
<th>Command</th>
<th>Change Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>\pdfpaperheight</td>
<td>Changed paper in the manuscript mode</td>
<td>12</td>
</tr>
<tr>
<td>\subparagraph</td>
<td>Moved to LaTeX default</td>
<td>23</td>
</tr>
<tr>
<td>General</td>
<td>Added footmisc package with ‘bottom’ option</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Added screen option</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Changed bibsection font</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Changed color of “Author’s proof’ mark</td>
<td>13</td>
</tr>
</tbody>
</table>
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
\&sand .................................... 336
\&par ....................................... 375
\&MM ........................................ 470, 471, 561
\&adminfootnotes ...................... 368, 427
\&afterheading ......................... 99, 444
\&authornotes ........................... 315, 317, 318, 341
\&cleartopmattertags ................. 428
\&comby .................................. 434
\&copyrightnote ........................ 169, 188, 197, 283
\&copyrightyear ........................ 275, 285, 288
\&currentlabel .......................... 563
\&dblarg ................................ 309
\&dedicatory ................................ 372, 375, 435
\&doinumber ................................ 166, 167, 185, 194, 195, 229, 419
\&enddocfalse .......................... 448
\&enddoctrue ............................ 450
\&fnsymbol1 ............................. 322, 340
\&footnotetext ........................... 461, 556
\&for ....................................... 534, 542
\&ifnotempty ............................ 301, 480, 483, 484, 487, 488, 491, 492
\&keywords ................................ 436
\&mainaux ................................ 553
\&mainrpi ................................ 387, 391, 392, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 421, 424
\&makefnmark ........................... 453, 540, 551
\&maketitle ............................... 355, 366
\&maketitle@hook ........................ 352
\&manuscriptid ........................... 218, 230, 233
\&minus .................................... 508, 512, 516, 520, 524
\&mkboth .................................. 369
\&mparswitch ............................ 527
\&mparswitchfalse ....................... 527
\&nameuse ................................ 441, 446
\&one ...................................... 132, 134
\&nx ....................................... 309, 310, 359, 360, 369
\&onlinedate ............................. 189, 279
\&paperUrl ............................... 235, 420, 422
\&par ....................................... 462
\&parboxrestore .......................... 562
\&percentchar ................................ 403, 405, 407, 409, 411, 413, 415, 417, 419, 422
\&plus .................................... 267, 508, 509, 512, 513, 516, 517, 520, 524
\&setabstract ............................ 273, 378
\&setabstracta ........................... 273
\&setaddresses ........................... 466, 469
\&setauthors ................................ 328, 371
\&setcopyright ........................... 347
\&setthanks ............................... 462
\&settite .................................. 319, 370
\&settranslators ......................... 465
\&startsection ........................... 507, 511, 515, 519, 523
\&subjclass ................................ 436
\&tempa .................................... 242, 243, 358, 361, 394, 397, 401, 417
\&tempc .................................... 396, 397
\&tempscna .................................. 132, 133, 134, 247, 248, 249, 250, 456, 457
\&tempscna .................................. 356, 360
\&textsuperscript ........................ 550
\&thefnmark ............................... 454, 550, 556
\&title ..................................... 324, 325, 401, 405, 430
\&title@notes ............................. 311, 313, 314, 324
\&topnum .................................. 346
\&topsep .................................... 333, 334
\&translators ............................. 465
\&undefined ............................... 323, 393, 455
\&xaddress .................................. 431
\&xauthor .................................. 431
\&xcurraddr .................................. 433
\&xemail .................................... 433
\&exp ....................................... 310, 356
\&xtitle .................................... 430
\&\abbrevcurrentmonth ................. 426
\&abstract ................................ 206, 207
\&abstract (environment) ............. 4
\&abstractbox ............................. 262
\&abstractname .......................... 270
\&addpenalty ................................ 98, 443
\&address .................................. 3, 431, 478
\&addresses ................................ 291, 292, 294, 466, 494
\begin{itemize}
\item Y
\item z@ 189, 239, 264, 266,
\item \texttt{\textbackslash year} \texttt{\texttt{\textbackslash year}} 277
\item Z
\item 364, 477, 507,
\item 511, 515, 519, 566
\end{itemize}