Typesetting Articles for *Res Philosophica*[*†]

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Abstract

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

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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,* with some elements in MT Imprint Shadow. The users may buy the fonts and install their free LaTeX support [1, 2], 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, Monotype Imprint Shadow for some titles and URW Garamond for mathematics. Sabon and MT Imprint Shadow are commercial fonts. URW Garamond is free, but due to license restrictions it is usually not included with TeXLive, MikTeX and other major distributives. If you bought Linotype Sabon, you need to install the package `lsabon` [1]. If you bought MT Imprint Shadow, you need to install the package `imprintshadow` [2]. To use URW Garamond, you need to download the `pfb` files from a CTAN mirror (`http://ctan.org/tex-archive/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 `bodyfont`

The option `bodyfont` can have three values: `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.

option `rpfont`

The name of journal, *Res Philosophica*, is typeset with the special font. The option `rpfont` can have three values: `imprintshadow` for MT Imprint Shadow, `cm` for Computer Modern and `auto` (default). The later option switches to the use of MT Imprint Shadow if the font metrics are present in your system, and to the use of Computer Modern otherwise.

option `manuscript`

The option `manuscript` is intended to faciliate 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 mariginal commentaries in the manuscript

option `screen`

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

option `natbib`

The preferred solution for bibliography is `natbib` package [3]. 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 BibTEX 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.

`\author` `\email` `\address` `\curraddr` `\urladdr` `\shortauthors`

The interface for specifying the authors and their affiliations is close the the one of `amsart` [4] (and different from the standard LaTeX). For each author a separate command `\author` should be used, followed by `\address` and (optionally) `\curraddr`, `\email` and `\urladdr`.

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 'Acknowledgements'. Note that the right vertical positioning of this footnote might require an additional run of LaTeX.

`\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.

`\volumenumber` `\issuenumber` `\publicationyear` `\publicationmonth` `\papernumber` `\startpage` `\endpage` 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 and April}
\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.

`\doinumber` Normally you do not need to set the DOI of the paper: TeX will construct the number using the paper data (including paper number in the current issue). 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.

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

```
Which is a well known fact.\EditorialComment{A citation is
needed}
```

2.4 Bibliography

As mentioned above, `resphilosophica` by default uses `natbib` [3]. 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 `http://dx.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:

```
@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},
}
```

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

```
\AddtoEndMatter{MY BIBLIOGRAPHY COMMANDS}
```

Acknowledgements

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.

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

3 Implementation

3.1 Options

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

```
\RequirePackage{xkeyval}
```

`\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
```

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

```
\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@lsabontrue
  \or
    \RESP@fontautofalse
    \RESP@lsabonfalse
  \fi}{%
  \PackageWarning{resphilosophica}{The option bodyfont must be auto,
    sabon or cm.  Using auto}\RESP@fontautotrue}
```

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

```
\define@choicekey*+{resphilosophica.cls}{rpfont}[\val\nr]{auto,
  imprint, imprintshadow, cm}[auto]{%
  \ifcase\nr\relax
    \RESP@rpfontautotrue
  \or
    \RESP@rpfontautofalse
    \RESP@mtshadowtrue
```

```
  \or
    \RESP@rpfontautofalse
    \RESP@mtshadowtrue
  \or
    \RESP@rpfontautofalse
    \RESP@mtshadowfalse
  \fi}{%
  \PackageWarning{resphilosophica}{The option rpfont must be auto,
    imprintshadow or cm.  Using auto}\RESP@rpfontautotrue}
```

`natbib` Checking natbib option:

```
\define@boolkey+{resphilosophica.cls}[RESP@]{natbib}[tue]{}{%
  \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}
```

`\ifRESP@screen` Screen mode:

```
\newif\ifRESP@screen
\RESP@screenfalse
\DeclareOptionX{screen}{\RESP@screentrue}
```

All other options are passed to amsart:

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

And executing options:

```
\ProcessOptionsX
```

3.2 Loading Classes and Packages

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

```
\LoadClass[noamsfonts]{amsart}
```

Some packages

```
\RequirePackage{microtype, fancyhdr, xcolor, lastpage}
\RequirePackage[bottom,multiple]{footmisc}
\RequirePackage[hyperfootnotes=false]{hyperref}
\urlstyle{rm}
\ifRESP@manuscript\hypersetup{colorlinks,allcolors=blue}\else
  \ifRESP@screen\hypersetup{colorlinks,allcolors=blue}\else
  \hypersetup{hidelinks}\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):

```
\ifRESP@fontauto
  \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:

```
\ifRESP@lsabon
  \RequirePackage[mdugm]{mathdesign}
  \RequirePackage[rmdefault]{lsabon}
  \renewcommand\scdefault{sc}
\fi
```

Checking the existence of `miih` font metrics:

```
\ifRESP@rpfontauto
  \IfFileExists{t1miih.fd}{\RESP@mtshadowtrue}{\RESP@mtshadowfalse}\fi
```

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

```
\ifRESP@mtshadow
  \def\rpdefault{miih}\else
  \def\rpdefault{\rmdefault}\fi
```

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

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

And loading natbib:

```
\ifRESP@natbib
  \RequirePackage[round]{natbib}
  \AtEndDocument{\bibliographystyle{resphilosophica}}
  \let\RESP@bibliography=\bibliography
  \def\bibliography#1{\AddtoEndMatter{\RESP@bibliography{#1}}}
  \def\bibsection{\par\addpenalty\@secpenalty\addvspace{\bigskipamount}%
    \noindent \Small References:\par\nobreak\vskip\medskipamount\@afterheading}
  \def\bibfont{\Small}
\fi
```

3.3 Page Dimensions and Paragraphing

`\pdfpaperwidth` `\pdfpaperheight` Paper:

```
\ifRESP@manuscript\else
\AtBeginDocument{\setlength{\pdfpagewidth}{432bp}%
  \setlength{\pdfpageheight}{648bp}}
\fi
```

`\textwidth` `\textheight` The size of the type block:

```
\setlength{\textwidth}{318pt}
\setlength{\textheight}{540pt}
```

`\evensidemargin` `\oddsidemargin` The margins:

```
\setlength{\evensidemargin}{-18pt}
\setlength{\oddsidemargin}{\evensidemargin}
```

`\topmargin` Top margin

```
\setlength{\topmargin}{-48pt}
```

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

```
\listisep\medskipamount
```

3.4 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}
```

`\footskip` Separation between the footer and the body

```
\setlength{\footskip}{20pt}
```

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

```
\ifRESP@manuscript
  \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\thepage\qquad\itshape\shortauthors}
\fancyhead[RO]{\footnotesize\textit{\shorttitle}\qquad\thepage}
\ifRESP@manuscript
  \fancyhead[LE]{\begin{picture}(0,0)%
      \put(-26,-22){\usebox{\RESP@linecount}}%
    \end{picture}\footnotesize\thepage\qquad\itshape\shortauthors}
  \fancyhead[LO]{\begin{picture}(0,0)%
      \put(-21,-22){\usebox{\RESP@linecount}}%
    \end{picture}}
  \fancyfoot[C]{\scriptsize\color{red}Author's Proof}
\fi
```

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

```
\fancypagestyle{firstpage}{%
  \fancyhf{}%
  \ifRESP@manuscript
    \lhead{\begin{picture}(0,0)%
        \put(-26,-20){\usebox{\RESP@linecount}}%
      \end{picture}}
  \fi
  \cfoot{\footnotesize{\fontfamily{\rpdefault}\selectfont Res Philosophica,}
    \itshape Vol.~\currentvolume, No.~\currentissue,
      \currentmonth~\currentyear, pp.~\start@page--\end@page
      \ifx\@doinumber\@empty\else\\%
      \doi{\@doinumber}\fi
      \\
  \@copyrightnote}}
```

3.5 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{00}
```

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

```
\def\issuenumber#1{\def\currentissue{#1}}
\issuenumber{0--0}
```

`\publicationyear` This sets the year of the paper

```
\def\publicationyear#1{\def\currentyear{#1}}
\publicationyear{2090}
```

`\publicationmonth` This sets the month of the paper

```
\def\publicationmonth#1{\def\currentmonth{#1}}
\publicationmonth{January--February}
```

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

```
\def\papernumber#1{\def\currentpaper{#1}}
\papernumber{0000}
%
% \end{macro}
%
%
% \begin{macro}{\doinumber}
% \changes{v1.11}{2012/12/25}{Added default}
%   DOI number for the article:
%    \begin{macrocode}
\def\doinumber#1{\gdef\@doinumber{#1}}
\doinumber{10.11612/resphil.\currentyear.\currentvolume.\currentissue.\currentpaper}
```

`\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{\pagenumbering{arabic}\setcounter{page}{#1}%
  \def\start@page{#1}%
  \ifnum\c@page<\z@ \pagenumbering{roman}\setcounter{page}{-#1}%
    \def\start@page{\romannumeral#1}%
  \fi}
```

`\endpage` This macro again has a twist in it: if the argument is not set, it calculates the last page number itself.

```
\def\endpage#1{\def\@tempa{#1}%
  \ifx\@tempa\@empty\def\end@page{\pageref{LastPage}}%
  \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.

```
\def\pagespan#1#2{\startpage{#1}\endpage{#2}}
\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

```
\def\articleentry#1#2#3#4{\@tempcnta=#4\relax
  \advance\@tempcnta by 1\relax
  \ifodd\the\@tempcnta\else\advance\@tempcnta by 1\relax\fi
  \startpage{\the\@tempcnta}}
```

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

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

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

```
\renewenvironment{abstract}{%
  \ifx\maketitle\relax
    \ClassWarning{resphilosophica}{Abstract should precede
      \protect\maketitle\space in AMS derived classes}%
  \fi
  \global\setbox\abstractbox=\vtop\bgroup%
    \vglue1pc%
    \list{}{\labelwidth\z@%
      \leftmargin3pc \rightmargin\leftmargin%
      \listparindent\normalparindent \itemindent\z@%
      \parsep\z@ \@plus\p@%
      \let\fullwidthdisplay\relax%
    }%
    \item[]\normalfont\normalsize\textbf{\abstractname:}\space
}{%
  \endlist\egroup%
  \ifx\@setabstract\relax\@setabstracta\fi%
}
```

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

```
\def\copyrightyear#1{\def\@copyrightyear{#1}}
\copyrightyear{}
```

`\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 [5]).

```
\def\copyrightnote#1{\def\@copyrightnote{#1}}
\copyrightnote{\textcopyright~%
  \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
  \shortauthors\cleaders\hbox{\quad\textbullet\quad}\hskip\RESP@bulletboxwidth
  \textcopyright~%
  \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
  {\normalfont\fontfamily{\rpdefault}\selectfont 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{\@nx\@dblarg
  \@xp\@nx\csname\string\author\endcsname}
```

3.6 Typesetting Top Matter

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

```
\def\@settitle{\begin{center}%
  \baselineskip20\p@\relax
  \LARGE\scshape
  \@title
  \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@\relax
    \advance\@topsep by -\baselineskip
    \item\relax
    \def\@@and{{and}}
    \author@andify\authors
    \hypersetup{pdfauthor=\authors}%
    \def\\{\protect\linebreak}%
    \large\normalfont\authors%
    \endtrivlist
    \endgroup
```

```
    \fi}
```

`\maketitle` 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@
  \@cleartopmattertags
}
```

`\@maketitle` 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\dimen@i\prevdepth}\prevdepth\dimen@i
  \fi
  \@setabstract
  \normalsize
  \if@titlepage
    \newpage
  \else
    \dimen@34\p@ \advance\dimen@-\baselineskip
    \vskip\dimen@\relax
  \fi
} % end \@maketitle
```

`\@mainrpi` The stream for the rpi file:

```
\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

```
\def\RESP@write@paper@info{%
  \bgroup
  \if@filesw
    \openout\@mainrpi\jobname.rpi%
    \write\@mainrpi{\relax}%
    \ifx\r@LastPage\@undefined
       \edef\@tempa{\start@page}%
    \else
       \def\@tempb##1##2##3##4##5{##2}%
       \edef\@tempa{\expandafter\@tempb\r@LastPage}%
    \fi
    \def\and{\string\and\space}%
    \protected@write\@mainrpi{}%
    {\string\articleentry{\authors}{\@title}{\start@page}{\@tempa}}%
```

The next lines are for crossref software

```
    \protected@write\@mainrpi{}%
     {\@percentchar authors=\authors}%
    \protected@write\@mainrpi{}%
     {\@percentchar title=\@title}%
    \protected@write\@mainrpi{}%
     {\@percentchar year=\currentyear}%
    \protected@write\@mainrpi{}%
     {\@percentchar volume=\currentvolume}%
    \protected@write\@mainrpi{}%
     {\@percentchar issue=\currentissue}%
    \protected@write\@mainrpi{}%
     {\@percentchar paper=\currentpaper}%
    \protected@write\@mainrpi{}%
     {\@percentchar startpage=\start@page}%
    \protected@write\@mainrpi{}%
     {\@percentchar endpage=\@tempa}%
    \protected@write\@mainrpi{}%
     {\@percentchar doi=\@doinumber}%
     \closeout\@mainrpi
     \fi
\egroup}
```

`\@adminfootnotes` We just define this to noop:

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

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

```
\def\@cleartopmattertags{%
  \def\do##1{\let##1\relax}%
  \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
  \do\author \do\@xauthor \do\address \do\@xaddress
```

```
\do\contrib \do\contribs \do\xcontribs \do\toccontribs
\do\email \do\@xemail \do\curraddr \do\@xcurraddr
\do\commby \do\@commby
\do\dedicatory \do\@dedicatory \do\thanks
\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:

```
\def\sf@size{7pt}%
}
```

3.7 Typesetting End Matter

End matter is typeset at the end of the paper.

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

```
\newif\if@enddoc
\@enddocfalse
```

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

```
\def\enddoc@text{%
  \@enddoctrue\def\bibliography{\RESP@bibliography}%
  \ifx\@empty\thankses\else
  \bgroup
  \let\@makefnmark\relax
  \let\@thefnmark\relax
```

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

```
   \ifx\lastfootnote@page\@undefined\else
       \@tempcnta=\lastfootnote@page\relax
       \ifnum\c@page=\@tempcnta\relax
         \insert\footins{\medskip}%
       \fi
   \fi
  \@footnotetext{%
    \def\par{\let\par\@par}\textbf{Acknowledgements\quad} \@setthanks}%
  \egroup
  \fi
  \ifx\@empty\@translators \else\@settranslators\fi
  \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

```
\newif\ifRESP@firstingroup
```

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

```
\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:

```
\def\@setaddresses{\par
  \nobreak \begingroup\flushright\clubpenalty\@MM\interlinepenalty\@MM
  \widowpenalty\@MM
  \RESP@firstingrouptrue
\Small
  \def\author##1{\nobreak\ifRESP@firstingroup\par
    \addvspace\bigskipamount\penalty-1000\fi
    \RESP@firstingroupfalse##1\par\nobreak}%
  \parindent\z@
  \def\address##1##2{\RESP@firstingrouptrue\begingroup
    \par\nobreak
    \@ifnotempty{##1}{(\ignorespaces##1\unskip) }%
    {\ignorespaces##2}\par\endgroup}%
  \def\curraddr##1##2{\RESP@firstingrouptrue\begingroup
    \@ifnotempty{##2}{\nobreak\indent\curraddrname
      \@ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
      ##2\par}\endgroup}%
  \def\email##1##2{\RESP@firstingrouptrue\begingroup
    \@ifnotempty{##2}{\nobreak\indent\emailaddrname
      \@ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
      \href{mailto:##2}{\nolinkurl{##2}}\par}\endgroup}%
  \def\urladdr##1##2{\RESP@firstingrouptrue\begingroup
    \@ifnotempty{##2}{\nobreak\indent
      \@ifnotempty{##1}{, \ignorespaces##1\unskip}%
      \url{##2}\par}\endgroup}%
  \addresses
  \endgroup
}
```

At the end we eject the last page

```
\AtEndDocument{\cleardoublepage}
```

3.8 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}{\z@}%
                                   {-3.5ex \@plus -1ex \@minus -.2ex}%
                                   {2.3ex \@plus.2ex}%
                                   {\normalfont\large\bfseries}}
```

`\subsection` Subsections are bold

```
\renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
                                     {-3.25ex\@plus -1ex \@minus -.2ex}%
                                     {1.5ex \@plus .2ex}%
                                     {\normalfont\normalsize\bfseries}}
```

`\subsubsection` Subsubsections are normalsize and italic

```
\renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
                                     {-3.25ex\@plus -1ex \@minus -.2ex}%
                                     {1.5ex \@plus .2ex}%
                                     {\normalfont\normalsize\itshape}}
```

`\paragraph` Paragraphs:

```
\renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
                                    {3.25ex \@plus1ex \@minus.2ex}%
                                    {-1em}%
                                    {\normalfont\normalsize\bfseries}}
```

`\subparagraph` Paragraphs:

```
\renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
                                      {3.25ex \@plus1ex \@minus .2ex}%
                                      {-1em}%
                                     {\normalfont\normalsize\bfseries}}
```

3.9 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 manusript mode

```
\def\EditorialComment#1{\ifRESP@manuscript\bgroup
  \marginparwidth=200pt\marginpar{\color{red}%
    \raggedright#1}\egroup\fi}
```

`\doi` Typesetting doi...

```
\def\doi#1{\url{http://dx.doi.org/#1}}
```

`\@makefntext` Unlike `amsart`, we do not indent footnotes:

```
\def\@makefntext{\noindent\@makefnmark
  \if@enddoc\else
    \immediate\write\@mainaux%
    {\string\xdef\string\lastfootnote@page{\the\c@page}}%
  \fi}
\long\def\@footnotetext#1{%
  \insert\footins{%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
```

```
433     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
434     \floatingpenalty\@MM \hsize\columnwidth
435     \@parboxrestore \parindent\normalparindent \sloppy
436     \protected@edef\@currentlabel{%
437       \csname p@footnote\endcsname\@thefnmark}%
438     \@makefntext{%
439       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
```

3.10 The End

Philosophers love footnotes, since `\raggedbottom`

```
440 \raggedbottom\normalsize\normalfont
441 ⟨/class⟩
```

References

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Change History

v1.1
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