Typesetting Articles For Online Journal *Philosophers' Imprint*[*]

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Abstract

This package provides a class for typesetting articles for the online journal *Philosophers' Imprint*, `http://www.philosophersimprint.org` using freely available fonts.

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1 Introduction

As said in its mission statement at `http://www.philosophersimprint.org`, "*Philosophers' Imprint* is a refereed series of original papers in philosophy, edited by philosophy faculty at the University of Michigan, with the advice of an international Board of Editors, and published on the World Wide Web by the University of Michigan Digital Library. The mission of the Imprint is to promote a future in which funds currently spent on journal subscriptions are redirected to the dissemination of scholarship for free, via the Internet." The journal used to accept manuscripts in Rich Text Format only. However, for many authors, especially from the field of logic, TEX seems to be a better choice. I was commissioned to write a LATEX class for this journal.

The aim of the class is to help authors to typeset their own articles in the "Web-ready" format. We do not assume the authors have any commercial fonts installed on their machines. The class uses only freely available and freely distributed fonts. This presents some difficulties since the journal is usually typeset in Adobe Palatino. We use the Palladio and Pazo fonts and (for the title) Trajan font.

2 User Interface

2.1 Invocation and Options

To use the class put in the preamble of your document

`\documentclass[`⟨*options*⟩`]{philosophersimprint}`

The class is intended to be used with pdflatex. If you compile DVI output instead (for example, to use with PSTricks), the class generates a warning.

The class philosophersimprint internally loads article, and therefore all class options for article are technically valid. However, most of them are not especially meaningful for philosophersimprint. There are several options specific for this class. They are described below

options
`titleimage`
`notitleimage`

The editorial board of *Philosophers' Imprint* prefers to typeset the titlepage itself and provide it as a PDF document to the authors. If you have such titlepage, use the `titleimage` option (default). Otherwise use the `notitleimage` option, and the class will make a (half-hearted) attempt to create a simulated title page for you. If `titleimage` option is chosen, but LATEX cannot find the titlepage image, the class generates a warning and switches to the `notitleimage` behavior.

Note that even if you do have a titlepage image, you still need to invoke top matter macros `\title`, `\authors` etc. to supply information for running heads and PDF metadata (see Section 2.2).

options
`trajantitle`
`notrajantitle`

If the option `trajantitle` is chosen (default), a beautiful Trajan font [1] will be used to typeset the title of the paper. Of course, this option has an effect only if `notitleimage` option is selected. Note that this font has no Arabic numbers, so if your title needs numbers, use Roman numerals instead. If you do not have `trajan.sty` on your system, the class will revert to Palatino in the title.

options By default the class uses mathpazo package with the options `sc` and `osf`. These
`nosc` options provide improved fonts with true small caps and old style figures (see [2]).
`noosf` If you have the recent PSNFSS fonts that include free FPL collection [3], you should not change this behavior. Otherwise you probably would be better off by upgrading. Only if you definitely cannot use these fonts, select the `nosc` and `noosf` options.

options The options `slantedGreek` and `noBBpl`, if present, are passed to mathpazo
`slantedGreek` package. See [2] for the discussion of these options.
`noBBpl`

2.2 Topmatter

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

The standard LaTeX topmatter macros are insufficient for most journals, and many journal styles like `amsart` or `elsart` use their own more or less sophisticated conventions. Since the editorial board of *Philosophers' Imprint* prefers to provide its own title pages, we chose to implement a rather simple set of topmatter macros, sufficient to generate a sample title page, while expecting the official one.

Note that even if you do have the "official" title page, you still need to use these macros because they are used for running heads and for PDF metadata.

`\titleimage` The macro `\titleimage` has one argument: the name of the file with the official title page image:

`\titleimage{`⟨*FileName*⟩`}`

for example, `\titleimage{1stpage.pdf}`. If the file is absent, the class issues a warning and tries to typeset a simulated page.

`\title` The `\title` command has two arguments: one mandatory argument and one optional:

`\title[`⟨*ShortTitle*⟩`]{`⟨*FullTitle*⟩`}`

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

`\author` The `\author` command also has two arguments with the similar meaning:

`\author[`⟨*ShortListOfAuthors*⟩`]{`⟨*FullListOfAuthors*⟩`}`

The optional argument is used for the running heads. If it is absent, the full list of authors is used there.

Separate multiple authors with commas. Do *not* use LaTeX command `\and`.

`\affiliation` The `\affiliation` command sets the affiliation of the authors:

`\affiliation{`⟨*Affiliation*⟩`}`

Use `\\` to separate different affiliations.

`\date` The command `\date` is similar to the standard LaTeX command. However, remember that the date format is different: "Month, year", e.g.

```
\date{April, 2007}
```

It should be also noted that the date here is the date of publication.

`\journalvolume` `\journalnumber` The macros `\journalvolume` and `\journalnumber` set the volume and number of the journal where the article is published:

```
\journalvolume{7}
\journalnumber{4}
```

You will receive these data from the editorial office once your article is accepted.

`\copyrightinfo` The macro `\copyrightinfo` is used to store the copyright date and copyright holder of the article, like

```
\copyrightinfo{1724, Immanuel Kant}
```

Note that the package does *not* try to deduce the copyright information from the date and author list. You need to set it explicitly.

`\copyrightlicense` By default all papers in the journal are licensed under under a Creative Commons Attribution-NonCommercial-NoDerivatives 3.0 License. You can override this setting by using `\copyrightlicense{`⟨*Other license*⟩`}`.

`\subject` This macro, if present, sets the "Subject" field in the PDF metadata. For example:

```
\subject{Ethics}
```

`\keywords` The macro `\keywords` is similar to `\subject`, but accepts a comma separated list of keywords. If present, they will be used in the "Keywords" field of the PDF document.

2.3 Required and Recommended Software

To typeset articles for *Philosophers' Imprint,* you need the proper fonts. PSNFSS version 9.2 or later [2] with URW and FPL fonts are recommended. It is easy to check whether you have these fonts: if you do not, then besides warnings in the log file, you will see headers and footers in lower case instead of correct small caps. Also, the numbers will be typeset with lining figures instead of old style numbers.

The class also uses packages color and graphicx from the graphics bundle [4] to typeset the title page.

Package ifpdf [5] is used to check whether PDF output is selected.

Package fancyhdr [6] is used to set up running headers and footers.

You need the packages above for the document written in philosophersimprint class to compile. The packages below are not strictly necessary, but highly recommended.

Package hyperref [7] is used to set up PDF metadata and make the links "clickable". We did not include it in the list of required packages, because it prefers to be loaded last, and we wanted to give the user a chance to load her own packages. We recommend the following options:

```
\usepackage[breaklinks,colorlinks,linkcolor=black,citecolor=black,
            pagecolor=black,urlcolor=black]{hyperref}
```

See `sample.tex` for the example of the usage of this package.

The authors of *Philosophers' Imprint* use both bibliography at the end of the article and bibliographic references in footnotes. The packages natbib [8] and opcit [9] are recommended for formatting the bibliography with BibTeX. However, these packages are *not* loaded by the class; it is the responsibility of the author to load and use them.

2.4 Configuration File

If the file `philosophersimprint.cfg` exists, it will be read by the class. It is a good place to put, for example, the default options.

2.5 Some Fine Points

The journal prefers the baselines of both columns to be aligned. This is a famous problem of "typesetting to a grid". Generally speaking, this is not trivial in a TeX world (see a discussion of this problem in [10]). Normally, TeX stretches distances between the baselines to achieve homogeneous grayness of the page. It takes some effort to switch this behavior off.

This class deletes most of TeX vertical stretchability. If there is much mathematics in the copy it might lead to some really ugly results. However, when the texts are not too heavy on math, the class can do a decent job. Below we list some cases where it cannot, and some manual intervention is warranted (see [10] for a description of an automatic solution. Unfortunately, at the moment of writing this version, this solution was not available as a free software).

1. We add 3/4 baseline leading before section title and 1/4 baseline leading after. This means that if a section starts a column, the baselines will be different by 1/4. An insertion of `\vspace*{-0.25\baselineskip}` sometimes leads to acceptable results.

2. We add 1/2 baseline leading before and after structures like quotations, theorems, corollaries etc. If such structure is split between columns, this breaks alignment. Again, a manual intervention might help.

3. We do not try to control the vertical space of structures, added, for example, by `\includegraphics` commands.

4. Sometimes a displayed equation can lead to breaking alignment.

In most cases the amount of manual intervention necessary to achieve alignment is fairly small.

In some cases one can achieve better results by tweaking TeX parameters. For example, the settings

```
\clubpenalty=1000\widowpenalty=1000\displaywidowpenalty=1000
\interfootnotelinepenalty=-1000
\interlinepenalty=-100
```

may lead to fuller pages, but may produce some unwaned orphans and clubs. Setting them to

```
\clubpenalty=10000\widowpenalty=10000\displaywidowpenalty=10000
\interfootnotelinepenalty=0
\interlinepenalty=0
```

will decrease the number of orphans and clubs, but may lead to unwanted white spaces on the pages. Sometimes judicious changes of the parameters in strategic places may help.

2.6 Acknowledgements

The author is grateful to John Horty, David Velleman and Victor Caston for their patience in describing the journal style.

3 Implementation

```
1 ⟨*class⟩
```

3.1 Options

`\ifPHIM@titleimage` Check whether we need the title image

```
2 \newif\ifPHIM@titleimage\PHIM@titleimagetrue
3 \DeclareOption{titleimage}{\PHIM@titleimagetrue}
4 \DeclareOption{notitleimage}{\PHIM@titleimagefalse}
```

`\ifPHIM@trajantitle` Check whether we need Trajan font for title

```
5 \newif\ifPHIM@trajantitle\PHIM@trajantitletrue
6 \DeclareOption{trajantitle}{\PHIM@trajantitletrue}
7 \DeclareOption{notrajantitle}{\PHIM@trajantitlefalse}
```

`\ifPHIM@sc` Do we need `sc` option for mathpazo?

```
8 \newif\ifPHIM@sc\PHIM@sctrue
9 \DeclareOption{nosc}{\PHIM@scfalse}
```

`\ifPHIM@osf` Same with `osf` option:

```
10 \newif\ifPHIM@osf\PHIM@osftrue
11 \DeclareOption{noosf}{\PHIM@osffalse}
```

Options specific for mathpazo:

```
12 \DeclareOption{slantedGreek}{%
13   \PassOptionsToPackage{\CurrentOption}{mathpazo}}
14 \DeclareOption{noBBpl}{%
15   \PassOptionsToPackage{\CurrentOption}{mathpazo}}
```

Everything else is probably an option for article

```
16 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
```

Reading configuration file:

```
17 \InputIfFileExists{philosophersimprint.cfg}{%
18   \ClassInfo{philosophersimprint}{%
19     Loading configuration file philosophersimprint.cfg}}{%
20   \ClassInfo{philosophersimprint}{%
21     Configuration file philosophersimprint.cfg is not found}}
```

Processing options

```
22 \ProcessOptions\relax
```

3.2 Loading Classes and Packages

We are based on article:

```
23 \LoadClass[landscape,letterpaper,twocolumn]{article}
```

A bunch of packages:

```
24 \RequirePackage{ifpdf, color, graphicx, fancyhdr}
```

Font related packages.

```
\ifPHIM@sc\PassOptionsToPackage{sc}{mathpazo}\fi
\ifPHIM@osf\PassOptionsToPackage{osf}{mathpazo}\fi
\RequirePackage{mathpazo}
```

Palatino fonts do not have typewriter and sans serif fonts. Computer Modern seems to clash with Palatino, so we use Courier and Helvetica when necessary:

```
\RequirePackage{courier}
\RequirePackage[scaled]{helvet}
```

It is recommended in [2] to use these packages with PSNFSS:

```
\RequirePackage[T1]{fontenc}
\RequirePackage{textcomp}
```

Loading `microtype`:

```
\IfFileExists{microtype.sty}{\RequirePackage{microtype}}{%
  \ClassWarningNoLine{philosopherimprint}{%
      ********************************\MessageBreak
      * Microtype package not found.  * \MessageBreak
      * This package improves the     *\MessageBreak
      * typesetting quality.  You may *\MessageBreak
      * wish to upgrade your system.  *\MessageBreak
      ********************************}}
```

Loading `trajan`

```
\ifPHIM@trajantitle
  \IfFileExists{trajan.sty}{\RequirePackage{trajan}}{%
    \ClassWarningNoLine{philosophersimprint}{%
      ********************************\MessageBreak
      * Trajan Fonts not found.  Will \MessageBreak
      * revert to Palatino in title.\MessageBreak
      ********************************}%
    \PHIM@trajantitlefalse}
\fi
```

`\ifPHIM@hyperref` We check whether the user loaded hyperref. This is delayed until all packages are loaded.

```
\newif\ifPHIM@hyperref
\AtBeginDocument{%
  \@ifpackageloaded{hyperref}{%
    \PHIM@hyperreftrue}{%
    \ClassWarningNoLine{philosophersimprint}{%
      ****************************\MessageBreak
      * You did not load hyperref.\MessageBreak
      * PDF-specific features will\MessageBreak
      * not work.\MessageBreak
      ****************************}%
    \PHIM@hyperreffalse}}
```

3.3 Setting Up Dimensions

3.3.1 Basic Length

\PHIM@baselength The design of *Philosopher's Imprint* is based on a uniform length scale

```
\newlength{\PHIM@baselength}
\setlength{\PHIM@baselength}{13.5pt}
```

3.3.2 Fonts

\normalsize \small \footnotesize \scriptsize \tiny \large \Large \LARGE \huge \Huge \HUGE This is basically from [11], but based on the journal requirements.

```
\renewcommand\normalsize{\@setfontsize\normalsize{9.5pt}\PHIM@baselength}
\renewcommand\small{\@setfontsize\small{9pt}{13.5pt}}
\renewcommand\footnotesize{%
  \@setfontsize\footnotesize{8.5pt}{9.5pt}}
\renewcommand\scriptsize{\@setfontsize\scriptsize{8pt}{9pt}}
\renewcommand\tiny{\@setfontsize\tiny{7.5pt}{8.5pt}}
\renewcommand\large{\@setfontsize\large{11pt}{16pt}}
\renewcommand\Large{\@setfontsize\Large{13pt}{19pt}}
\renewcommand\LARGE{\@setfontsize\LARGE{16pt}{23pt}}
\renewcommand\huge{\@setfontsize\huge{19pt}{28pt}}
\renewcommand\Huge{\@setfontsize\Huge{23pt}{33pt}}
\newcommand\HUGE{\@setfontsize\Huge{30pt}{45pt}}
```

3.3.3 Paragraphing

\baselinestretch \parindent \parskip Again we use [11] a lot.

```
\renewcommand\baselinestretch{}
\setlength\parindent{\PHIM@baselength}
\setlength\parskip{0pt}
```

\smallskipamount \medskipamount \bigskipamount These are for additional leading. We define them to be multiples of the baseline

```
\setlength\smallskipamount{0.25\PHIM@baselength}
\setlength\medskipamount{0.5\PHIM@baselength}
\setlength\bigskipamount{\PHIM@baselength}
```

3.3.4 Page Dimensions and Type Area

This was inspired by memoir [12].

```
\ifpdf\relax
  \pdfpageheight=\paperheight
  \pdfpagewidth=\paperwidth
  \ifdim\pdfvorigin=0pt\pdfvorigin=0pt\fi
  \ifdim\pdfhorigin=0pt\pdfhorigin=0pt\fi
\else
  \ClassWarningNoLine{philosophersimprint}{%
    **************************\MessageBreak
    * The class is intended for \MessageBreak
    * pdflatex. You seem to use\MessageBreak
```

```
    * it with latex instead.\MessageBreak
    **************************}
\fi
```

This code is from [11], with the removing of vertical stretch based on [10]

```
\lineskiplimit = -3pt\relax
\lineskip = \PHIM@baselength\relax
\setlength\headsep   {\PHIM@baselength}
\setlength\footskip   {3\PHIM@baselength}
\setlength\topskip\PHIM@baselength
\setlength\textheight{459pt}
\setlength\topmargin{61pt}
\addtolength\topmargin{-1in}
\addtolength\topmargin{-\topskip}
\addtolength\topmargin{-\headsep}
\@settopoint\topmargin
\abovedisplayskip \PHIM@baselength\relax
\abovedisplayshortskip \PHIM@baselength\relax
\belowdisplayshortskip \PHIM@baselength\relax
\belowdisplayskip \abovedisplayskip\relax
```

`\PHIM@colwidth` We need to calculate the column width to center the headers:

```
\newlength{\PHIM@colwidth}
\setlength{\PHIM@colwidth}{297pt}
\setlength\columnsep{54pt}
\setlength\textwidth{\PHIM@colwidth}
\multiply\textwidth by 2\relax
\addtolength{\textwidth}{\columnsep}
```

3.3.5 Margins

`\marginparwidth` `\marginparsep` `\marginparpush` The vertical and horizontal distances for margin paragraphs:

```
\setlength{\marginparwidth}{3\PHIM@baselength}
\setlength{\marginparsep}{0.5\PHIM@baselength}
\setlength{\marginparpush}{0.5\PHIM@baselength}
```

`\evensidemargin` `\oddsidemargin` The side margins are 6 pica each.

```
\setlength{\evensidemargin}{6pc}
\addtolength{\evensidemargin}{-1in}
\setlength{\oddsidemargin}{\evensidemargin}
```

3.3.6 Floats

`\floatsep` `\textfloatsep` `\intextsep` `\textfloatsep` `\dblfloatsep` `\dbltextfloatsep` `\abovecaptionskip` `\belowcaptionskip` Some parameters for floats...

```
\setlength\floatsep\PHIM@baselength
\setlength\textfloatsep\PHIM@baselength
\setlength\intextsep\PHIM@baselength
\setlength\dblfloatsep\PHIM@baselength
\setlength\dbltextfloatsep\PHIM@baselength
```

```
\setlength\abovecaptionskip\PHIM@baselength
\setlength\belowcaptionskip{\z@}\relax
```

3.3.7 Lists

\leftmargin
\leftmargini
\leftmarginii
\leftmarginiii
\leftmarginiv
\leftmarginv
\leftmarginvi
\listparindent
\itemindent

These lengths are for all lists.

```
\setlength\leftmargini\PHIM@baselength
\leftmargin\leftmargini
\setlength\leftmarginii\PHIM@baselength
\setlength\leftmarginiii\PHIM@baselength
\setlength\leftmarginiv\PHIM@baselength
\setlength\leftmarginv\PHIM@baselength
\setlength\leftmarginvi\PHIM@baselength
\setlength\listparindent\PHIM@baselength
\setlength\itemindent\PHIM@baselength
```

\labelsep
\labelwidth

Labels for all lists

```
\setlength\labelsep{0.5em}
\setlength\labelwidth{\leftmargini}
```

\topsep
\partopsep
\itemsep
\parsep

These are for vertical spacing for lists

```
\setlength\topsep{0.5\PHIM@baselength}
\setlength\partopsep\z@
\setlength\parsep\parskip
\setlength\itemsep\z@
```

\@listi
\@listI
\@listii
\@listiii
\@listiv
\@listv
\@listvi

These are for compatibility with `article.cls`

```
\def\@listi{}%
\def\@listI{}%
\def\@listii{}%
\def\@listiii{}%
\def\@listiv{}%
\def\@listv{}%
\def\@listvi{}%
```

quote
quotation
verse

Does anybody use verses for philosophy papers?

```
\renewenvironment{verse}{\let\\\@centercr
  \list{}{\rightmargin\leftmargin}\item\relax}{\endlist}
\renewenvironment{quote}{%
  \list{}{\rightmargin\leftmargin}\item\relax}{\endlist}
\renewenvironment{quotation}{%
  \list{}{\rightmargin\leftmargin
  \itemindent\parindent}\item\relax}{\endlist}
```

3.3.8 Odds and Ends

Some other lengths

\bibndent

Bibliography indentation

```
\setlength\bibindent\PHIM@baselength
```

\jot This length is added between lines of `eqnarray`. People should not use this environment. Still, let us define it.

```
\setlength\jot\z@
```

\arraycolsep \tabcolsep \fboxsep These lengths should be based on the base length:

```
\setlength{\arraycolsep}{0.5\PHIM@baselength}
\setlength{\tabcolsep}{0.5\PHIM@baselength}
\setlength{\fboxsep}{0.25\PHIM@baselength}
```

3.4 Top Matter Markup

We do not need `\thanks` and `\and`

```
\def\and{\unskip, %
  \ClassError{philosophersimprint}{%
    Command \string\and\space is not defined for this class}{%
    The authors for Philosophers' Imprint should be separated by
    commas.\MessageBreak
  I will convert your \string\and\space to comma and continue}}
\def\thanks#1{%
  \ClassError{philosophersimprint}{%
    Command \string\thanks\space is not defined for this class}{%
    Use \string\affiliation\space instead of \string\thanks.\MessageBreak
    I will delete this command and its argument}}
```

\title Unlike standard LaTeX macro `\title`, ours has two arguments:

```
\def\title{\@ifnextchar[{\title@i}{\title@ii}}
\def\title@i[#1]#2{\gdef\@shorttitle{#1}\gdef\@title{#2}}
\def\title@ii#1{\title@i[#1]{#1}}
\title{}
```

\author Same with `\author`:

```
\def\author{\@ifnextchar[{\author@i}{\author@ii}}
\def\author@i[#1]#2{\gdef\@shortauthor{#1}\gdef\@author{#2}}
\def\author@ii#1{\author@i[#1]{#1}}
\author{}
```

\@date We have slightly different default date format than the standard class:

```
\def\today{\ifcase\month\or
  January\or February\or March\or April\or May\or June\or
  July\or August\or September\or October\or November\or
  December\fi\space
  \number\year}
```

\titleimage \affiliation \copyrightinfo \subject \keywords A bunch of one parameter macros

```
\newcommand*{\titleimage}[1]{\gdef\@titleimage{#1}}
\titleimage{}
\newcommand*{\affiliation}[1]{\gdef\@affiliation{#1}}
\affiliation{}
```

```
\newcommand*{\copyrightinfo}[1]{\gdef\@copyrightinfo{#1}}
\copyrightinfo{}
\newcommand*{\subject}[1]{\gdef\@subject{#1}}
\subject{}
\newcommand*{\keywords}[1]{\gdef\@keywords{#1}}
\keywords{}
```

`\copyrightlicense` This adds license information:

```
\newcommand*{\copyrightlicense}[1]{\gdef\@copyrightlicense{#1}}
\copyrightlicense{This work is licensed under a Creative Commons
  Attribution-NonCommercial-NoDerivatives 3.0 License}
```

Some games with the numbers

`\PHIM@addzeros` The macro `\PHIM@addzeros` takes the argument and adds leading zeros to make exactly 3 digits, and puts it into the second argument.

```
\def\PHIM@addzeros#1#2{\@tempcnta=#1\relax
  \edef#2{%
   \ifnum\@tempcnta>99
      \the\@tempcnta
   \else
      \ifnum\@tempcnta>9
         0\the\@tempcnta
      \else
        00\the\@tempcnta
      \fi
   \fi}}
```

`\journalnumber` We keep two copies of the journal number: one with zeros, one without

```
\newcommand*{\journalnumber}[1]{%
  \gdef\@journalnumber{#1}%
  \PHIM@addzeros{\@journalnumber}{\@@journalnumber}}
\journalnumber{999}
```

`\journalvolume` We keep two copies of the journal volume: one with zeros, one without

```
\newcommand*{\journalvolume}[1]{%
  \gdef\@journalvolume{#1}%
  \PHIM@addzeros{\@journalvolume}{\@@journalvolume}}
\journalvolume{999}
```

3.5 Headers & Footers

```
\pagestyle{fancy}
\lhead{\makebox[\PHIM@colwidth]{\centering\scshape\large
    \MakeLowercase{\@shortauthor}}}
\chead{}
\rhead{\makebox[\PHIM@colwidth]{\centering\itshape\large\@shorttitle}}
\lfoot{\scshape\large philosophers' imprint}
\cfoot{-\space\large\thepage\space-}
```

```
\rfoot{\scshape\large vol.~\@journalvolume, no.~\@journalnumber\quad%
  (\MakeLowercase{\@date})}
\renewcommand{\headrulewidth}{0pt}
\renewcommand{\footrulewidth}{0pt}
```

3.6 Making Title Page

`\maketitle` Our `\maketitle` is completely different from the standard one. First, we set up the PDF information, and then check which of the variants of title page to use.

```
\def\maketitle{%
  \thispagestyle{empty}
  \ifPHIM@hyperref\relax
    \hypersetup{pdfauthor=\@author, pdftitle=\@title, %
      pdfsubject=\@subject, pdfkeywords=\@keywords}
   \fi
   \ifPHIM@titleimage\relax
      \maketitle@image
   \else
      \maketitle@simulated
   \fi
   \newpage}
```

`\maketitle@image` Here we add the image if it exists.

```
\def\maketitle@image{%
  \IfFileExists{\@titleimage}{%
    \begin{picture}(0,0)%
        \setlength{\unitlength}{1pt}%
        \put(-6,6){\makebox(0,0)[lt]{\includegraphics{\@titleimage}}}%
        \end{picture}}{%
  \ClassWarningNoLine{philosophersimprint}{%
    ******************************\MessageBreak
    * Cannot find title image \MessageBreak
    * \@titleimage.\MessageBreak
    * Switching to  simulated title.\MessageBreak
    ******************************}
  \maketitle@simulated}}
```

`\maketitle@simulated` Simulated page should look more or less like the real one.

```
\def\maketitle@simulated{%
  {\centering
    \parbox{2in}{\textcolor{PHIM@blue}{%
        \hspace{1.4em}\fontsize{10pt}{11}\selectfont Philosophers'}\\[-1.4ex]%
      \textcolor{PHIM@gray}{\fontsize{34pt}{25}\selectfont Imprint}}
    \hfill
    \parbox{2in}{
      \begin{flushright}
        \scshape\large
        volume \@journalvolume, no.~\@journalnumber\\[0.2ex]
        \MakeLowercase{\@date}
      \end{flushright}}%
```

```
    \par
    \vskip 0pt plus 0.3fill\relax
    {\ifPHIM@trajantitle\trjnfamily\fi
      \HUGE\selectfont\MakeUppercase{\@title}\par}%
    \vskip 0pt plus 0.4fill\relax
    {\huge\itshape\@author\par}%
    \vskip 0pt plus 0.15fill\relax
    {\large\itshape\@affiliation\par}%
    \vskip 0pt plus 0.2fill\relax
    {\ifx\@copyrightinfo\@empty~\else%
         \copyright\space\@copyrightinfo\fi\\
         \itshape
         \ifx\@copyrightlicense\@empty~\else%
           \@copyrightlicense\fi\\[0.3ex]
      \edef\PHIM@url{%
        www.philosophersimprint.org/\@@journalvolume\@@journalnumber/}
      \ifPHIM@hyperref\relax
         \href{http://\PHIM@url}{\textcolor{black}{
             \textless \PHIM@url\textgreater}}%
      \else
         \textless \PHIM@url\textgreater
      \fi
      \vskip 0pt plus 0.2fill\relax
      \par}%
  }}%
```

Some colors for the title page:

```
\definecolor{PHIM@blue}{rgb}{0.184, 0.431, 0.7749}%
\definecolor{PHIM@gray}{gray}{0.549}%
```

3.7 Sectioning

We redefine the sectioning commands from the standard article to make this according to the journal requirements.

`\ifPHIM@appendix` The journal wants to format appendix as "Appendix A. Name". Therefore we need to know whether we are in appendix mode.

```
\newif\ifPHIM@appendix\PHIM@appendixfalse
```

`\section` The journal wants the dot after section number. Besides, to synchronize lines, we want to skip 3/4 line before the section head even if we start a new column.

```
\renewcommand\section{\par
  \addpenalty\@secpenalty\nobreak
  \addvspace{0.75\PHIM@baselength}
  \@afterindentfalse
  \secdef\@section\@ssection}%
```

`\@section` This is the actual formatting when we have an unstarred form.

```
\def\@section[#1]#2{%
```

```
\ifnum\c@secnumdepth>0\relax
   \refstepcounter{section}%
   \addcontentsline{toc}{section}{\ifPHIM@appendix\appendixname\space\fi
     \thesection.\quad#1}%
\else
   \addcontentsline{toc}{section}{#1}%
\fi
{\noindent\raggedright\interlinepenalty\@M
 \normalsize\bfseries
 \ifnum\c@secnumdepth>0\relax
    \ifPHIM@appendix\appendixname\space\fi\thesection.\quad #2
 \else
    #2
 \fi}%
 \vspace*{0.25\PHIM@baselength}%
 \@afterheading
 \nobreak\par}
```

`\@ssection` This is the actual formatting for the starred section

```
\def\@ssection#1{%
 {\noindent\raggedright\interlinepenalty\@M
  \normalsize\bfseries #1}%
  \vspace*{0.25\PHIM@baselength}%
  \@afterheading
  \nobreak\par}
```

`\subsection` `\subsubsection` `\paragraph` `\subparagraph` All other command can use standard technique. Since the lengths in `@startsection` double as switches, we use $\pm$1sp as effective zero.

```
\renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
                                      {-\PHIM@baselength}%
                                      {1sp}%
                                      {\normalfont\normalsize\itshape}}
\renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
                                      {-1sp}%
                                      {1sp}%
                                      {\normalfont\normalsize\itshape}}
\renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
                                     {1sp}%
                                     {-1sp}%
                                     {\normalfont\normalsize}}
\renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
                                        {1sp}%
                                        {-1sp}%
                                       {\normalfont\normalsize}}
```

`\appendix` The only difference from the command `\appendix` in [11] is that here we switch on the flag:

```
\renewcommand\appendix{\par
 \PHIM@appendixtrue
```

```
\setcounter{section}{0}%
\setcounter{subsection}{0}%
\gdef\thesection{\@Alph\c@section}}
```

3.8 Footnotes

`\@makfntext` The journal prefers footnotes with text footnote marks and hanging indentation

```
\renewcommand\@makefntext[1]{%
  \bgroup
  \parindent2\PHIM@baselength\relax
  \everypar{\hangindent=\PHIM@baselength\hangafter=1}%
  \noindent
  \makebox[\PHIM@baselength][l]{\@thefnmark.}#1\egroup}
```

`\footnotesep` We set it just to strut

```
\settoheight{\footnotesep}{\footnotesize\strut}
```

`\footins` This the space between the last line of the text and top of footnotes

```
\setlength{\skip\footins}{13.5pt plus 1fill}
```

`\interfootnotepenalty` We allow footnotes to be split between pages:

```
\interfootnotelinepenalty=0
```

3.9 The Last Words

The editors want French spacing

```
\normalsize
\frenchspacing
⟨/class⟩
```

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