# A LATEX package for preparing manuscripts for submissions to the Open Access journal "Enterprise Modelling and Information Systems Architectures – International Journal of Conceptual Modeling" (EMISAJ)

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## 1 Introduction

Enterprise Modelling and Information Systems Architectures – International Journal of Conceptual Modeling (EMISAJ, formerly abbreviated as EMISA) is a publisher-independent, peer-reviewed open access journal (https://emisa-journal.org). EMISAJ is published by the German Informatics Society (GI) and is a publication of its Special Interest Group (SIG) on Modelling Business Information Systems (SIG MoBIS) and its SIG on Design Methods for Information Systems (SIG EMISA). SIG MoBIS has sponsored the development of the EMISAJ LATEX package currently maintained by Stefan Strecker (stefan.strecker@fernuni-hagen.de) and Martin Sievers (martin.sievers@schoenerpub lizieren.de). It is based on earlier funded work by Martin Leidig.

The EMISAJ LATEX package is provided for preparing manuscripts for submission to EMISAJ, and for preparing accepted submissions for publication as well as for typesetting the final document by the editorial office. For EMISAJ, manuscripts are submitted online and accepted articles are published online at <a href="https://emisa-journal.org">https://emisa-journal.org</a> in the Portable Document Format (PDF) format. The EMISAJ editorial office is run (alongside many other tasks and projects) by the two Editors-in-Chief assisted by doctoral students. Editorial work at EMISAJ is best described as a volunteer effort for the scientific community. You can assist us by preparing your manuscript following the instructions and style guidelines described in this document: Your work will be published quicker with less (typographical) glitches and will have a professional appearance.

## 2 Installation

The EMISAJ LATEX package consists of the document class emisa.cls, the biblatex bibliography style emisa.bbx and the biblatex citation style emisa.cbx.

The package also includes a quick-start template for authors (emisa-author-template.tex) and the present author instructions and style guidelines (emisa.pdf).

Automatic installation

The preferred installation method of the canonical *release* version is through your TEX distribution's package installer (e. g. TEX Live's tlmgr or the MiKTEX Package Manager). For the latter you may need to first update (or synchronise) the package database. This type of installation is recommended in order to always get the latest *release* version automatically. The canonical release version of the package is also available from CTAN at http://www.ctan.org/pkg/emisa while the *current development* (i. e. most recent) version of the package with bug fixes and new features (relative to the release version) is available from the GitHub repository at https://github.com/gi-ev/emisa-latex-package.

Manual installation

If you prefer a manual installation (or want to install the latest development version), download the corresponding Zip archive from Github (the latest development version is always available as Zip archive at https://github.com/gi-ev/emisa-latex-package/archive/master.zip), uncompress it in the same directory (folder) in which the source files for the manuscript will be maintained, and then run pdflatex emisa.dtx twice, and start from emisa-author-template.tex.

## 3 Instructions and guidelines

This document provides instructions and style guidelines for authors. Follow the instructions and guidelines in the present document to set up your files, to type in your text, to format figures, tables, source code listings and algorithms, and to obtain a consistent visual appearance in accordance with the journal's style specifications. Before submitting your manuscript online to the journal's online submission system at https://emisa-journal.org, use these instructions and guidelines as a checklist. Note that these instructions are *not* intended as a general introduction to LaTeX2e and corresponding tools (see, for example, http://mirror.ctan.org/info/lshort/english/ for "The Not So Short Introduction to LaTeX2e—Or LaTeX2e in 157 minutes").

# 4 Preliminary remarks

The EMISAJ document class is derived from the standard LATEX article class, and produces a customised two-column layout with bibliographic information about the manuscript in a multi-line page headline (including the name of the journal, volume and issue number, date of publication, short title as well as author names) on A4-sized paper. The EMISAJ class builds on a number of standard LATEX packages. It is highly recommended to install the *full* set of LATEX packages that come with your LATEX distribution to make the required packages available to the EMISAJ package. Alternatively, missing packages may be installed via your TeX distribution's package manager or on-the-fly (if supported by your distribution).

UTF-8

File naming convention

The production process at the EMISAJ editorial office is based entirely on LaTeX, and runs pdfLaTeX and biber to produce the final proof and publication-ready PDF of an article. The biblatex package is used to typeset citations and references in conjunction with the biber tool. Make sure to use biber rather than bibtex to process your bibliography data base file(s). Most TeX editors have an option to easily switch to biber. The production tool chain at the editorial office requires that all text files of an article

are provided in *UTF-8 file encoding*, and that all submitted files are provided with *lower case filenames* only. Do not use upper case characters in filenames at all and avoid non-ASCII characters in filenames.

Author template

The file emisa-author-template.tex provides a good starting point for manuscript preparation (if the EMISAJ package is available through your TeX distribution, the file is stored at /doc/latex/emisa/inside your TeX installation folder/directory. Just copy it to your working directory). It is also recommended to review the example of an article typeset with emisa.cls provided in Sec. 18.

# 5 Class Options

american, USenglish

American English is the language of choice for publishing in EMISAJ. The class option american is loaded by default to obtain the correct hyphenation for American English (as provided by the babel package). The option *may be* explicitly used with the EMISAJ class to exemplify the use of American English: \documentclass[american] {emisa}. Note that the esquotes package is loaded with settings to produce proper quotation marks for American English (see below).

Note that versions of this class prior to 2.2.0 used British English as standard language!

british, UKenglish

If you want to use British English instead, you can use the option british or UKenglish. The hyphenation patterns and quotation marks will be set accordingly.

referee, review

By default, a final version of the manuscript is typeset for online publication including the names and affiliations of authors. For reviewing purposes, the names and affiliations of the authors must be omitted using the document option referee or review to allow for the anonymous (i. e. double blind) peer-review process of EMISAJ. Example: \documentclass[referee] {emisa}. Make sure to set the document option referee or review before typesetting the final PDF intended for submission to the journal.

## **6** Author information

\author \address Each author is added using the macro \author{ $\langle author \, name \rangle$ } followed by the corresponding address \address{ $\langle author's \, address \, (line \, 1) \rangle$ }. If you have multiple authors with the same address, please use \address{ $\langle author's \, address \rangle$ } only for the first one and \address[ $\langle letter \, of \, address \rangle$ ] {} for all others. See emisa-author-template.tex for details.

\author\*

There always has to be declared exactly one author as the corresponding author. This is indicated by using the starred version of the \author command: \author\*{ $\langle author's name \rangle$ }{ $\langle email address \rangle$ }.

# 7 Title, subtitle, abstract, and keywords

\title \subtitle The mandatory title and optional subtitle of a manuscript are typeset using  $\title{\langle title \rangle}$  and  $\title{\langle subtitle \rangle}$ . Note that the subtitle is indented. The abstract of the manuscript is typeset using  $\title{\langle abstract \rangle}$ . Each manuscript should provide an abstract of about 200–400 words. Keywords describing the manuscript are typeset using  $\title{\langle keywords \rangle}$  and are concatenated

\abstract \keywords

using the \and command. At least three keywords should be provided.

## 8 Additional information on the first (title) page

\acknowledgements

Acknowledgements, for example, of collaborators, funding agencies etc. may be added using  $\acknowledgements{\langle acknowledgements \rangle}$ . The acknowledgements are typeset in a footnote on the first page below the corresponding author's email address.

\authornote

Additional information for reviewers and readers may be added in a footnote on the titlepage using \authornote{\lambdauthor note\rangle}. This is typically used for stating earlier publications (e.g. in conference proceedings) on which the present manuscript is based.

# 9 Style guidelines for regular text

- Manuscripts should *not* make use of outdated L<sup>A</sup>T<sub>E</sub>X commands such as \em, but rather use the L<sup>A</sup>T<sub>E</sub>X2e commands (e. g. \emph, \texttt).
- Do not make use of bold face (\textbf). Use \emph instead to typeset an important word in italics!
- ightharpoonup Always use the tilde ~ to connect before  $\ref{abel}$ , e. g., Sec.~\ref{label} rather than the problematic: Sec. \ref{label}.
- Always use the en-dash (--) for ranges without spaces e. g., 17--34. The hyphen (-) should only be used for compound words or hyphenation.
- Do *not* write abbreviations such as e.g. but use the macros provided by the EMISAJ class (see below). Add punctuation when necessary, for example, write, to achieve the correct punctuation for "id est" (i. e.) rather than, i.e., which introduces two problems: A missing spacing after the first full stop and a wrong spacing after the second full stop.
- ▶ Follow the journal's style specification with respect to predefined text styles:
  - Use smallcaps for names of open-source projects, products and companies etc., e.g., \textsc{eclipse} to produce ECLIPSE. Pay attention to lower case spelling.

\meta

 Use non-proportional font for language concepts, meta types, meta classes etc., i.e., \texttt{AbstractGoalType} to produce AbstractGoalType, or use the predefined macro \meta{\language metatype\rangle}, e.g., \meta{AbstractGoalType}.

\type

• Use the sans-serif font face for type-level concepts etc., e.g., \textsf{Goal} to produce Goal when referring to a Goal type, or use the predefined macro \type{\langle type \rangle}, e.g., \type{Goal}.

## 10 Abbreviations and initialisms

\eg,\ie,\cf,\etal

To achieve consistent typesetting of common abbreviations, macros are predefined by the EMISAJ class. These macros should *consistently* being used instead of writing the plain version. For example use \eg rather than e.g.,. The macros take care of spacing within and after the abbreviations.

- ▶ \eg for e. g.
- ▶ \ie for i.e.
- ▶ \cf for cf.
- ▶ \etal for et al.

\emisaabbrv

If you miss any frequently used abbreviation for your article, you can easily add it using  $\ensuremath{\mbox{\mbox{$\setminus$}}} {\text{$\setminus$}} in the preamble of your article.}$ 

\OMG,\BPM,\BPMN,\UML

In addition to common abbreviations, further initialisms are provided by the class for convenience and for a consistent visual appearance. Note that the class uses SMALLCAPS for typesetting initialisms. The list of predefined initialisms comprises:

- ▶ \OMG for OMG (Object Management Group).
- ▶ \BPM for BPM (Business Process Management).
- ▶ \BPMN for BPMN (Business Process Model and Notation).
- ▶ \UML for UML (Unified Modelling Language).

**\emisainitialism** 

You can add your own initialisms by stating  $\ensuremath{\mbox{\mbox{$\setminus$}}} {\mbox{$\langle$ \mbox{$\downarrow$}}} in the preamble.$ 

## 11 Quotation marks

\enauote

It is *highly recommended* to use the  $\end{equote} {\langle quotation \rangle}$  command to produce correct quotation marks. Note that the command can be nested and will produce correct primary and secondary quotation marks in American English (or British English – depending on the chosen class option), for example  $\end{equote} A$  quote  $\end{equote}$ . For other quotation macros and environment please consult the esquotes documentation [8].

Alternatively (but not recommended), the correct Unicode characters for the quotation marks in American (British) English can be used. See Wikipedia's entry for "quotation mark" for further information.

#### 12 Citations and references

\parencite \textcite The EMISAJ journal uses its own author-year citation style predefined for the biblatex package (emisa.cbx), and its own style for formatting entries in the list of references (emisa.bbx). Consult the biblatex package documentation [4] for an introduction to the citation commands. It is important to use the citation commands properly to follow the journal's style specifications.

**Important note.** *Make sure to format the bibliographic entries consistently!* Do not mix abbreviated first names with unabbreviated first names, as for example

```
@ARTICLE{key1, author = {{van der Weiden}, J. W. P.} ...
@ARTICLE{key2, author = {{van der Weiden}, Jan W. P.} ...
```

if both entries refer to the same author. This will lead to unexpected results with respect to the label generation of the citation. Make sure to always abbreviate author first names and to always use use curly brackets around multi-word last names, e.g. {van der Weiden}, J. W. P. in the bibentries.

## 13 Figures

All line-drawings must be provided as vector graphics (*not* bitmap graphics) in PDF format and all other (non-schematic) figures (e. g. screenshots) must be provided in PDF, JPEG or PNG format in a proper (high) resolution for the intended size of the rendered image to avoid pixelation due to low resolution; bitmap graphics shown in full page width in the submission should at least be of a resolution of two (2) megapixels or at least 1920 pixels wide.

#### 14 Tables

Tables can be added using the standard notation, i.e. using tabular inside the floating environment table (see Listing 1). However, the standard column parameters p, 1, c and r are often not sufficient to provide a table with an exact width, e. g. the text width.

Listing 1: An example for a standard table using tabular

```
\begin{table}
\small % or \footnotesize if needed at all
\centering % if needed
\caption{Add the caption here}
%\label{tab:unique-label} % alternatively after \end{tabular}
\begin{tabular}{p{3cm}lcr}
\toprule
A column 3cm wide and with possible line breaks &
\midrule
A column set flush-left with no line breaks &
A column set centred with no line breaks &
A column set flush right with no line breaks \&
A column set flush right with no line breaks \\
bottomrule
\end{tabular}
\label{tab:unique-label}
\end{table}
```

tabularx

Therefore the EMISAJ class loads the package tabularx by default. It defines an additional column parameter X, which has to be used for at least one column. In addition the standard tabular environment is substituted by tabularx which has two mandatory arguments, namely the total width of the table and the definition for the columns.

Listing 2 shows two typical examples for the application of tabularx. If you just mark one column with the parameter X, all other columns (i. e. columns with parameters p, 1, c or r) are set the usual way. The remaining width (width given as first argument to tabularx minus used width of all "non-X-columns") is then assigned to the X column. To get a table two columns wide, please use \textwidth as the table's width.

Listing 2: An example for a table using the package tabularx for exactly one X column

```
...
\begin{tabularx}{\textwidth}{Xll}
This a column with possibly long text passages,
so that line breaking is necessary and automatically
applied by the X column & This column is set ragged right and gets as
   wide as its contents &
Another column \\
...
\end{tabularx}
...
```

A second frequently used scenario is the need for columns with equal width, but without having to calculate the value manually. For a much more comfortable solution one can assign the X parameter to all such columns.

Listing 3: An example for a table using the package tabularx and more than one X column

```
...
\begin{tabularx}{\textwidth}{p{3cm}XXX}
This a column with possibly long text passages,
so that line breaking is necessary and automatically
applied to get a box 3cm wide &
This column and the remaining two all have the same width, namely
(\textwidth-3cm)/3. &
...
\end{tabularx}
...
```

Additional information can be obtained from the package's documentation [19].

For nicer tables you should get rid of any vertical lines between the columns. Instead you can use the macros provided by booktabs (preloaded by EMISAJ) for horizontal lines of different width. Just replace the first standard \hline by \toprule, the last one by \bottomrule and all other by \midrule. There is even an alternative for \cline called \cmidrule. The example from Listing 3 then looks like:

Listing 4: An example for a table using the packages tabularx and booktabs

```
...
\begin{tabularx}{\textwidth}{p{3cm}XXX}
\toprule
Table header 1 & table header 2 & table header 3\\
\midrule
This a column with possibly long text passages,
so that line breaking is necessary and automatically
applied to get a box 3cm wide &
This column and the remaining two all have the same width, namely
(\textwidth-3cm)/3. &
...
\bottomrule
\end{tabularx}
...
```

Have a look at the package's documentation [5] for more details.

## 15 Source code listings

sourcecode java For marking up source code listings, the EMISAJ class uses the listings package (see the package documentation [15] for further information), and provides two customised LaTeX environments: sourcecode and java. The java environment should be used to format source code listings in the Java programming language, and the sourcecode environment should be used to format source code in any other programming language. You can add the name of the programming language and other parameters known to listings like caption or label as an optional argument.

Note that the source code in either case is typeset verbatim, i. e., the author must arrange the input LATEX source code according to the intended output. Also note that the two environments have been predefined to always produce a two-column listing positioned at the top of the page. Listing 5 illustrates the use of both environments.

Listing 5: Example for the java and sourcecode environments

```
\begin{java}[caption={A hello world example},label={hw-java}]
public class HelloWorld
{
    public static void main (String[] args)
    {
        // Output Hello World!
        System.out.println("Hello World!");
    }
}
\end{java}

\begin{sourcecode}[language=R]
    hello <- function( name ) {</pre>
```

```
sprintf( "Hello, %s", name );
}
\end{sourcecode}
```

## 16 Pseudo-code and algorithms

algorithm algorithmic

Apart from source code you might want to add pseudo code examples or algorithms. In contrast to the source code examples above EMISAJ does not define its own environments for that. Instead we recommend using the bundle algorithms consisting of the two packages algorithm and algorithmic. Typical parts like loops, if-clauses or statements all have their own macro. See Listing 6 for an example.

Listing 6: Example for a pseudocode presented within the algorithmic environment

```
\begin{algorithmic}[1]
\REQUIRE $n \geq 0$
\ENSURE $y = x^n$
\STATE $y \leftarrow 1$
\STATE $X \leftarrow x$
\STATE $N \leftarrow n$
\WHILE{$N \neq 0$}
\IF{$N$ is even}
\STATE $X \leftarrow X \times X$
\STATE $N \leftarrow N / 2$
\ELSE[$N$ is odd]
\STATE $y \leftarrow y\times X$
\STATE $N \leftarrow N - 1$
\ ENDIF
\ENDWHILE
\end{algorithmic}
```

```
Require: n \ge 0
Ensure: y = x^n
 1: y \leftarrow 1
 2: X \leftarrow x
 3: N \leftarrow n
 4: while N \neq 0 do
        if N is even then
 5:
            X \leftarrow X \times X
            N \leftarrow N/2
 7:
        else \{N \text{ is odd}\}
 8:
            y \leftarrow y \times X
 9:
            N \leftarrow N-1
10:
        end if
11:
12: end while
```

results in

If you want your algorithm to be a floating object, you can surround it with algorithm:

```
\begin{algorithm}
\caption{Calculate $y = x^n$}
\label{alg1}
\begin{algorithmic}
...
\end{algorithmic}
\end{algorithm}
```

For more details, please have a look at the documentation [2].

# 17 Commands for use by the editorial office staff only

\editor Enter the corresponding editor (or editorial board member) for the article, in the format "first letter of the first name fullstop tilde last name". Example: \editor{A.~Smith}, \editor{A.~Smith and B.~Meyer} Enter the date of initial reception of the manuscript by the editorial office in the following format. \received Example: \received{31~March 2014} Enter the date of the acceptance decision of the manuscript and the number of review rounds in the \accepted following format. Example: \accepted[3]{10~January 2016} Enter the number of the volume in which the article is published. Example: \volume{11} \volume Enter the issue number and issue year of the article. Format example: \issue{1}{2016} \issue Enter the title of the Special Issue to which the article belongs if any. Note that the prefix "Special Issue \specialissuetitle on" is added automatically. Example: \specialissuetitle{Multilevel Modelling}

Note that volume, issue number and issue date and, optionally, the title of the special issue appear in the multiline page headline of the article.

\CCBYNCSATour If an article is licensed under a Creative Commons BY-NC-SA 4.0 or 3.0 licence, the reference to the licence can be automatically displayed at the end of the article by adding \CCBYNCSAFour and \CCBYNCSAThree, respectively.

\license,\license Alternatively, enter a license text using the \license (or \licence) commands.

Example: \license{This work is licensed under LPPL 1.3c.}

# 18 Example file for both, authors and editorial office

```
% Use the option [draft] to mark overfull lines.
\documentclass[american]{emisa}
% The following package imports are recommended, but not obligatory;
% take a look into their respective manuals if you want to how they can
   be used:
\usepackage{amsmath,amssymb,mathtools}
```

```
\usepackage{algorithmic,algorithm}
% Additional package imports go here:
% The document begins here:
\begin{document}
% Optionally, set the style for typesetting source code listings.
% \lstset{language=Java} % see listings package
% Take note of the following article environment!
\begin{article}{%
% Enter your bibliography database file here. Make sure to use
% UTF-8 character encoding in the bibliography data bases,
% and add the .bib extension for the biblatex package!
\bibliography { emisa.bib }
% For editorial office only: Start
% Add editorial meta data to appear in the multiline page headline.
\editor{Enter corresponding editor here}
\received{Enter date of manuscript reception here}
\accepted[1]{Enter number of review rounds and date of acceptance here.}
\volume{11} % volume number
\issue{1}{31~Jan~2016} % issue number and issue date
\specialissuetitle{Title of special issue if publication belongs to a
   special issue}
% Add license information at end of article, either
\CCBYNCSAFour % or \CCBYNCSAThree or \license
\license{Enter your license text here}
% For editorial office only: End
% Enter bibliographic meta data about publication
\title[Insert shorttitle for page headline]{Enter full title here}
\subtitle{Enter subtitle here, or leave empty}
\author*{FirstName LastName of corresponding author}{email@address.org}
\address{Enter affiliation of first (corresponding) author here.
   that only the starred version of author* accepts a second argument
   requiring an email address for the corresponding author.}
\author{FirstName LastName}
\address{Enter affiliation of second and further authors here. Add
   further authors following this scheme.}
% Enter abstract, keywords, acknowledgements, author note
\abstract{Enter abstract here}
\keywords{Enter at a minimum three keywords here. Keyword1 \and Keyword2
    \and Keyword3}
\acknowledgements {Enter acknowledgements here.}
\authornote{If your submission is based on a prior publication and
   revises / extends this work, enter a corresponding note here (This
   work is based on ...) but DO NOT cite the prior work during the
   reviewing process. INSTEAD provide full citations of all prior
   publications to the editors during the submission process (use the
```

```
text field in the online submission system).}
% Take note of the following closing bracket!
}
\section{Introduction}\label{sec:introduction}
Enter your text here.
\subsection{Subsection title}\label{sec:somelabel}
% Example of a single-column figure (spanning only a single column).
% You can add an optional argument to influence the float placement,
% which is htbp by default.
\begin{figure}
\centering
\includegraphics[width=\columnwidth]{<filename>}
\caption{Enter your single-column figure caption here.}
\label{fig:unique-label}
\end{figure}
% Example of a double-column figure (spanning both columns)
\begin{figure*}[htb]
\centering
\includegraphics[width=\textwidth]{<filename>}
\caption{Enter your double-column figure caption here.}
\label{fig:unique-label}
\end{figure*}
% Example of a double-column table. Tables should NOT be typeset in a
   single column!
% Note the use of \toprule, \midrule, and \bottomrule!
% DO NOT use vertical rules in tables!
\begin{table*}[tb]
\centering
\caption{Enter your table caption above the table here.}
\begin{tabular}{111111}
\toprule
column head1 & column head2 & column head3 & column head4 & column head5
    & column head6\\
\midrule
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
\bottomrule
\end{tabular}
\label{tab:unique-label}
\end{table*}
% Example of a double-column source code listing.
```

```
\begin{java}[caption={Enter your double-column listing caption here.},%
                   label={lst:helloworld}]
* The HelloWorldApp class implements an application that
* simply prints "Hello World!" to standard output.
*/
class HelloWorldApp {
   public static void main(String[] args) {
        System.out.println("Hello World!"); // Display the string.
\end{java}
% Example of a pseudo-code with algorithmic.
\begin{algorithmic}
\WHILE{\r > kRadius/2\}}
\STATE $r \leftarrow r-1$
\STATE $a \leftarrow \sqrt{kernel[0][r]}/(kRadius-r)$;
\IF{$a < sqrtSlope$}
\STATE $sqrtSlope \leftarrow a$
\ ELSE
\STATE break
\ ENDIF
\ENDWHILE
\end{algorithmic}
% Formatting the bibliographic data base:
% Please make sure to properly enter all data for each entry
% in the bibliographic database (.bib).
% Pay special attention to formatting names and page numbers,
% see the following example:
%@ARTICLE{key1,
% author = {{van der Aalst}, W. M. P.
% and {van Hee}, K. M.
% and {van Werf}, J. M.
% and Verdonk, M.},
% title = {{Auditing 2.0: Using
% Process Mining to Support
% Tomorrow's Auditor}},
% journal = {Computer},
  year = \{2010\},\
% volume = {43},
% pages = \{90--93\},
% number = \{3\}
%}
\printbibliography
\end{article}
\end{document}
```

## References

- [1] Package afterpage: Execute command after the next page break. 19.2.2
- [2] Package algorithms: A suite of tools for typesetting algorithms in pseudo-code. 16
- [3] Package babel: Multilingual support for Plain TFX or LATFX. 19.2
- [4] Package biblatex: Bibliographies in LaTeX using BibTeX for sorting only. 12, 19.2.1
- [5] Package booktabs: Publication quality tables in LaTeX. 14
- [6] Package calc: Simple arithmetic in LATEX commands. 19.2.2
- [7] Package caption: Customising captions in floating environments. 19.2
- [8] Package csquotes: Context sensitive quotation facilities. 11, 19.2.1
- [9] Package environ: A new interface for environments in LATEX. 19.2.2
- [10] Package eso-pic: Add picture commands (or backgrounds) to every page. 19.2.2, 19.9.3
- [11] Package float: Improved interface for floating objects. 19.2
- [12] Package geometry: Flexible and complete interface to document dimensions. 19.2.2
- [13] Package graphicx: Enhanced support for graphics. 19.2.1
- [14] Package hyperref: Extensive support for hypertext in LATeX. 19.3
- [15] Typeset source code listings using LaTeX. 15
- [16] Package microtype: An interface to the micro-typographic features of pdfTEX. 19.2
- [17] Package paralist: Enumerate and itemize within paragraphs. 19.2.2
- [18] The  $\LaTeX 2_{\varepsilon}$  Sources. 19.10
- [19] Package tabularx: Tabulars with adjustable-width columns. 14
- [20] Package textcomp: LATEX support for the Text Companion fonts. 19.2
- [21] Package twoopt: Definitions with two optional arguments. 19.2.2
- [22] Package xcolor: Driver-independent color extensions for LATEX and pdfLATEX. 19.2.1
- [23] Package xspace: Define commands that appear not to eat spaces. 19.2.2

## 19 Implementation

Here, the code of the LATEX class emisa begins.

```
1 (*class)
```

## 19.1 Options

\@clearglobaloption We need a macro to remove options from the global to avoid side-effects

```
2 \def\@clearglobaloption#1{%
                        \def\@tempa{#1}%
                        \def\@tempb{\@gobble}%
                        \@for\next:=\@classoptionslist\do
                          {\ifx\next\@tempa
                              \message{Cleared option \next\space from global list}%
                    7
                    8
                              \edef\@tempb{\@tempb,\next}%
                    9
                    10
                        \let\@classoptionslist\@tempb
                    11
                        \expandafter\ifx\@tempb\@gobble
                    12
                          \let\@classoptionslist\@empty
                    13
                        \fi}
                    14
  british option
UKenglish option
                    15 \DeclareOption{british}{%
                         \PassOptionsToPackage{british}{babel}
                    16
                         \PassOptionsToPackage{english=british}{csquotes}
                    17
                          \@clearglobaloption{british}}
                    18
                    19 \DeclareOption{UKenglish}{%
                         \PassOptionsToPackage{british}{babel}
                    20
                         \PassOptionsToPackage{english=british}{csquotes}
                    21
                         \@clearglobaloption{british}}
 american option
USenglish option
                    23 \DeclareOption{american}{%
                          \PassOptionsToPackage{american}{babel}
                         \PassOptionsToPackage{english=american}{csquotes}
                    25
                         \@clearglobaloption{american}}
                    26
                    27 \DeclareOption{USenglish}{%
                         \PassOptionsToPackage{american}{babel}
                    28
                    29
                          \PassOptionsToPackage{english=american}{csquotes}
                         \@clearglobaloption{american}}
```

draft option
final option
@draft switch

If the user requests draft we mark any overfull boxes. There is more interesting stuff to be added to this option; one could think of altered running titles or watermarks, for example.

As this option is handed along the package chain it might have other effects, too.

31 \newif\if@draft

```
32 \DeclareOption{draft}{%
    \@drafttrue
    \overfullrule 10pt
35 }%
36 \DeclareOption{final}{%
    \@draftfalse
37
    \overfullrule\z@
39 }%
```

referee option noreferee option

The options referee and review switch to referee mode. In referee mode some information at the titlepage are removed in order to allow an anonymous submission.

review option

- 40 \newif\if@referee
- noreview option
- 41 \DeclareOption{referee}{\@refereetrue}
- @referee switch
- 42 \DeclareOption{noreferee}{\@refereefalse} 43 \DeclareOption{review}{\@refereetrue}
- 44 \DeclareOption{noreview}{\@refereefalse}

cleveref option nocleveref option @usecleveref switch

- 45 \newif\if@usecleveref
- 46 \DeclareOption{cleveref}{\@useclevereftrue}
- 47 \DeclareOption{nocleveref}{\@useclevereffalse}

nocover option

cover option Switches cover production on or off. If cover is given then the four cover pages (outer and inner pages of front and back, respectively) are produced and added to the document.

\coveron

48 \newif\if@cover

\coveroff @cover switch

- 49 \def\coveron{\@covertrue}
- 50 \def\coveroff{\@coverfalse}
- 51 \DeclareOption{cover}{\coveron}
- 52 \DeclareOption{nocover}{\coveroff}
- 53 \newif\if@microtype
- 54 \@microtypetrue
- 55 \DeclareOption{nomicrotype}{\@microtypefalse}

Completing option handling, by now unprocessed option are handed over to the base class article and the class options list is processed from the left to the right.

- 56 \PassOptionsToClass{a4paper,twoside,11pt}{article}%
- 57 \DeclareOption\*{\PassOptionsToClass{\CurrentOption}{article}}%
- 58 \ExecuteOptions{american, final, noreferee, nocover, cleveref, oneside, openany}%
- 59 \ProcessOptions\*\relax%
- 60 \IfFileExists{latexrelease.sty}%
- {\RequirePackage[latest]{latexrelease}}% 61
- {\RequirePackage{fixltx2e}}%

## 19.2 Loading the base class and packages

This class is build upon the LATEX standard class article.

- 63 \LoadClass{article}[2001/06/01]%
- 64 \RequirePackage[utf8]{inputenc}%

This loads font definitions for text and mathematics. The package allows the user to select font encodings, and for each encoding provides an interface to 'font-encoding-specific' commands for each font. Its most powerful effect is to enable hyphenation to operate on texts containing any character in the font. It is distributed as part of the LATEX  $2_{\mathcal{E}}$  distribution.

65 \RequirePackage[T1]{fontenc}%

Since many PostScript fonts only implement a subset of the TS1 encoding which contains text symbols for use with the T1-encoded text fonts, many commands only produce black blobs of ink. The textcomp package is supplied as a part of the LATEX base distribution to resolve the resulting problems [20].

66 \RequirePackage[full]{textcomp}%

The microtype package provides a LATEX interface to the micro-typographic extensions of pdfTeX: most prominently, character protrusion and font expansion, furthermore the adjustment of interword spacing and additional kerning, as well as hyphenatable letterspacing (tracking) and the possibility to disable all or selected ligatures [16]. It allows to apply these features to customisable sets of fonts, and to configure all micro-typographic aspects of the fonts in a straight-forward and flexible way. Settings for various fonts are provided.

babel is a package providing an environment in which documents can be typeset in a language other than US English, or in more than one language [3].

76 \RequirePackage{babel}%

This style option improves the interface for defining floating objects such as figures and tables in LaTeX [11]. It adds the notion of a 'float style' that governs appearance of floats. New kinds of floats may be defined using a \newfloat command analogous to \newtheorem. This style option also incorporates the functionality of David Carlisle's style option here, giving floating environments a [H] option which means Put it here! (as opposed to the standard [h] option which means Put it here if possible, or otherwise at the next page if no alternative position is specified.).

77 \RequirePackage{float}

The caption package gives the user the possibility to control the look & feel of the captions from floating environments like figure and table. Furthermore it does similar to the caption stuff coming from other packages (like the longtable or supertabular package) [7].

For more information on that see the english, russian, or german user documentation.

78 \RequirePackage[font={small}]{caption}

#### 19.2.1 Colour and graphics

graphicx as part of the graphics package provides a key-value interface for optional arguments to the \includegraphics command [13].

79 \RequirePackage{graphicx}%

The package xcolor is a color extension for LaTeX and pdfLaTeX that provides easy driver-independent access to several kinds of colors, tints, shades, tones, and mixes of arbitrary colors by means of color expressions [22].

80 \RequirePackage[fixinclude,table]{xcolor}%

The biblatex package [4] is a complete reimplementation of the bibliographic facilities provided by LaTeX in conjunction with BibTeX. It redesigns the way in which LaTeX interacts with BibTeX at a fairly fundamental level. With biblatex, BibTeX is only used to sort the bibliography and to generate labels. Instead of being implemented in BibTeX's style files, the formatting of the bibliography is entirely controlled by TeX macros. Good working knowledge in LaTeX should be sufficient to design new bibliography and citation styles. There is no need to learn BibTeX's postfix stack language. Just like the bibliography styles, all citation commands may be freely (re)defined.

Apart from the features unique to biblatex, the package also incorporates core features of the following packages: babelbib, backref, bibtopic, bibunits, chapterbib, cite, citeref, inlinebib, mlbib, multibib, natbib, splitbib. There are also some conceptual parallels to the amsrefs package. The biblatex package supports split bibliographies, multiple bibliographies within one document, and separate lists of bibliographic shorthands. Bibliographies may be subdivided into parts (by chapter, by section, etc.) and/or segmented by topics (by type, by keyword, etc.). The package is fully localized and can interface with the babel package.

This package requires e-TeX and the etoolbox package. Installing the csquotes package is recommended.

81 \RequirePackage{etoolbox}%

We use it with these options:

style=emisa sets the base name of the bibliography and citation format files; thus we use emisa.bbx and emisa.cbx that are defined below.

natbib=true enables the use of natbib citation commands with biblatex.

maxcitenames=3 Author lists with more than two entries are abbreviated with "et al.". Note that in the bibliography listing author lists won't be shortened at all.¹

terseinits If Initials are given with (false) or without (true) punctuation and whitespace.

isbn=false In bibliographies, no ISBNS, ...

<sup>&</sup>lt;sup>1</sup>That is, they will be shortened if there are more than 999 authors. That should occur not that often, though.

```
dashed=false Identical author entries of consecutive bibliography entries don't get replaced by a dash
 (beginning with the second one).
82 \RequirePackage[%
83
        style=emisa,%
       natbib=true,%
84
        backend=biber,%
85
86 ]{biblatex}
87 \ExecuteBibliographyOptions{%
       maxcitenames=2,%
88
       maxbibnames=999,%
89
       terseinits=false,%
90
       isbn=false,%
91
       url=true,%
92
       doi=false,%
93
       eprint=false,%
94
       dashed=false,%
95
       bibencoding=inputenc,%
       sorting=anyt,%
       hyperref=true,%
       uniquename=minfull,%
99
       uniquelist=false%
100
101 }%
```

url=false... no URLs,...
doi=false... no DOIs,...

eprint=false ... and no ePrint marks are displayed.

This package provides advanced facilities for inline and display quotations [8]. Quotation marks are switched automatically if quotations are nested and can adjust to the current language. There are additional facilities designed to cope with the more specific demands of academic writing, especially in the humanities and the social sciences. All quote styles as well as the optional active quotes are freely configurable.

102 \RequirePackage[autostyle=once]{csquotes}

## **19.2.2** Helpers

twoopt provides commands to define macros with *two* optional parameters. This package is part of the *Oberdiek* bundle [21].

```
103 \RequirePackage{twoopt}%
environ provides a new method of defining environments [9].
```

104 \RequirePackage{environ}%

paralist provides a few new list environments. Itemized and enumerated lists can be typesetted within paragraphs, as paragraphs and in a compact version. Most environments have optional arguments to format the labels. Additionally, the LATEX environments itemize and enumerate can be extended to use a similar optional argument [17].

The options' meanings are as follows:

neveradjust The width of the labels is never adjusted, not even for environments where you defined the labels manually using the optional argument.

defblank The two environments inparablank and asparablank will be defined.

flushright The labels in the four lists mentioned above are set flush right.

105 \RequirePackage[neveradjust,defblank,flushright]{paralist}%

We make the traditional list environments equal the compact ones so there is no visual difference and they are both modifiable easily.

- 106 \let\itemize\compactitem
- 107 \let\enditemize\endcompactitem
- 108 \let\enumerate\compactenum
- 109 \let\endenumerate\endcompactenum
- 110 \let\description\compactdesc
- 111 \let\enddescription\endcompactdesc

These macros are imported from paralist, setting standard enumeration marks and list indentations.

```
112 \int \int (1.){a}
```

- 113 \setdefaultleftmargin{1em}{0.9em}{0.7em}{0.5em}{0.4em}{0.3em}%
- 114 \setlength{\plitemsep}{3\p@}%
- 115 \setlength{\pltopsep}{6\p@}

afterpage implements a command that causes the commands specified in its argument to be expanded after the current page is output [1].

The xspace package provides a single command that looks at what comes after it in the command stream, and decides whether to insert a space to replace one "eaten" by the TEX command decoder. The decision is based on what came after any space, not on whether there was a space (which is unknowable): so if the next thing proves to be punctuation, the chances are there was no space, but if it's a letter, there's probably a need for space [23].

calc adds infix expressions to perform arithmetic on the arguments of the LATEX commands \setcounter, \addtocounter, \setlength, and \addtolength [6].

All three packages are part of the tools bundle in the LATEX required distribution.

```
116 \RequirePackage{afterpage,xspace,calc}%
```

geometry provides an easy and flexible user interface to customize page layout, implementing auto-centering and auto-balancing mechanisms so that the users have only to give the least description for the page layout [12].

An important feature is the package's ability to communicate the paper size it's set up to the output (whether via DVI \specials or via direct interaction with pdflaTeX).

```
117 \RequirePackage{geometry}%
```

eso-pic adds one or more user commands to LaTeX's shipout actions, making it easy to add some picture commands to any and every page at absolute positions [10].

```
118 \RequirePackage{eso-pic}%
```

119 \RequirePackage{placeins}%

#### 19.2.3 Scripts, fonts, and maps

```
120 \RequirePackage{newtxtext}
121 \RequirePackage{amsmath}
122 \RequirePackage{amssymb}
123 \RequirePackage{newtxmath}
124 \RequirePackage[zerostyle=b,straightquotes]{newtxtt}
125 \if@microtype
126 \UseMicrotypeSet[protrusion]{basicmath} % disable protrusion for tt fonts
127 \fi%
```

To make figures and ligatures searchable when using pdf $T_EX \ge 1.40$ , glyph-to-unicode translation must be enabled. The default table glyphtounicode.tex contains mappings from glyph names to corresponding unicode for embedded fonts. It covers the AGL (Adobe Glyph List), names from texglyphlist.txt (part of lcdf-typetools) and zapfdingbats.txt, plus a few exceptions.

```
128 \InputIfFileExists{glyphtounicode}%
      {\ClassInfo{emisa}{Reading file `glyphtounicode.tex`}
       \pdfgentounicode=1}%
130
      {\ClassWarning{emisa}{Couldn't find file `glyphtounicode.tex`}}%
131
      \RequirePackage{booktabs}
132
      \RequirePackage{listings}
133
134
      \lstset{basicstyle=\ttfamily\small}
      \lstnewenvironment{java}[1][]
135
136
          {\lstset{language=Java,float=*htbp,#1}}
137
          {}
      \lstnewenvironment{java*}[1][]
138
          {\lstset{language=Java,float=htbp,#1}}
139
140
      \lstnewenvironment{sourcecode}[1][]
141
         {\lstset{float=*htbp,#1}}
142
143
      \lstnewenvironment{sourcecode*}[1][]
144
          {\lstset{float=htbp,#1}}
145
146
      \RequirePackage[amsmath,standard,hyperref]{ntheorem}
147
```

#### 19.3 Hypertext

The hyperref package [14] has to loaded as late as feasible so it can intercept changes to standard macros by other packages.

```
148 \RequirePackage{url}
149 \urlstyle{same}
150 \RequirePackage[%
151 colorlinks,
152 breaklinks,
153 pdfview=Fit,
154 bookmarksopen,
155 bookmarksnumbered,
```

```
156
     linkcolor=black,
     anchorcolor=black,
157
     citecolor=black,
158
     filecolor=black,
159
     urlcolor=black.
160
     hyperfootnotes=false
161
     ]{hyperref}%
162
163 \if@usecleveref%
      \RequirePackage[capitalise,nameinlink]{cleveref}
164
165
      \crefname{section}{Sec.}{Sec.}
      \Crefname{section}{Sec.}{Sec.}
166
      \crefname{figure}{\figurename}{\figurename}
167
      \Crefname{figure}{\figurename}{\figurename}
168
      \crefname{listing}{\lstlistingname}{\lstlistingname}
169
      \Crefname{listing}{\lstlistingname}{\lstlistingname}
170
171
      \crefname{table}{\tablename}{\tablename}
      \Crefname{table}{\tablename}{\tablename}
172
173 \fi%
174 \RequirePackage[%
175
      type={CC},%
      modifier={by-nc-sa},%
176
      version={4.0}%
177
178 ]{doclicense}
```

#### **19.4** Tools

\@ifempty
 \@ifarg
\@ifnoarg

These determinate if an argument ist empty (or not) and to act consequently. An argument is ,empty', iff it contains nothing or just whitespace. All three macros first test their first argument. If it is empty \@ifempty then executes the second one, otherwise the third one. \@ifnoarg und \@ifarg execute their respective second argument iff the the first one is (not) empty.

#### **Syntax:**

```
\label{eq:continuous} $$ \left( arg \right) { \left( Action_if_empty \right) } \\ \left( arg \right) { \left( Action_if_empty \right) } \\ \left( arg \right) { \left( Action_if_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ 179 \left( arg \right) { \left( Action_if_not_empty \right) } \\ 180 \left( arcode \right) Z=3 \\ 181 \left( arg \right) { \left( arcode \right) Z=3 } \\ 181 \left( arg \right) { \left( arcode \right) Z=3 } \\ 182 \left( arg \right) { \left( arcode \right) Z=3 } \\ 183 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 184 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 185 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 180 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 181 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 182 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 183 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 184 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 185 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 180 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 181 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 182 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 183 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 184 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 185 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 180 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 181 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 182 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 183 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 184 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 185 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 181 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 182 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 183 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 184 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 184 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 184 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 185 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187 \left( arcode \right) { \left( arcode \right) Z=3 } \\ 187
```

## 19.5 Basic page layout

The geometry options using the keyval  $(\langle key \rangle = \langle value \rangle)$  interface can be set either in the optional argument to the \usepackage command, or in the argument of the \geometry macro. In either case, the argument consists of a list of comma-separated keyval options. \geometry acts cumulative; so multiple use just appends options to the list.

```
186 \geometry{%
     a4paper,%
187
     portrait,%
188
     twoside,%
189
     ignoreall,%
190
191
     hcentering,%
     textwidth
                      = 162.5 \text{mm}, \%
192
                      = 220mm,\%
193
     textheight
     heightrounded,%
194
     columnsep
                      = 12.5 \text{mm},\%
195
                      = 47 \text{mm}, \%
     top
196
     headheight
                      = 16mm, \%
197
     headsep
                      = 13mm, %
198
     marginparwidth = 15mm,%
199
200
     marginparsep
                      = 5 \text{mm},%
      footskip
                      = 16mm\%
201
202
     }%
   \marginparpush 5mm%
   \AtBeginDocument{\baselineskip=13.6pt plus 0.5pt}%
   \parindent=4mm%
   \smallskipamount=.5\baselineskip
   \medskipamount=2\smallskipamount
   \bigskipamount=2\medskipamount
   \flushbottom
   \abovedisplayskip=.5\baselineskip plus .33\baselineskip
210
                                         minus .33\baselineskip
211
212 \belowdisplayskip=\abovedisplayskip
213 \abovedisplayshortskip= Opt plus .33\baselineskip
   \belowdisplayshortskip=.5\baselineskip plus .33\baselineskip
                                              minus .33\baselineskip
215
```

### 19.6 Scripts

```
\pageheadfont Assigning scripts to text elements.
\pagenumfont Page head and foot:
\pagefootfont 216 \def\pageheadfont{\normalfont}%
217 \def\pagenumfont{\pageheadfont\bfseries}%
218 \def\pagefootfont{\pageheadfont}%
```

```
\authorfont The elements of the article titles:
             \titlefont
                            219 \def\authorfont{\normalfont\Large}%
          \subtitlefont
                            220 \def\titlefont{\normalfont\bfseries\LARGE\boldmath}%
          \abstractfont
                            221 \def\subtitlefont{\normalfont\bfseries\Large\boldmath}%
                            222 \def\abstractfont{\normalfont\itshape}%
                          The elements of the affiliation box:
       \affiliationfont
 \affiliationauthorfont
                            223 \def\affiliationfont{\normalfont}
\affiliationaddressfont
                            224 \def\affiliationauthorfont{\bfseries}
  \affiliationemailfont
                            225 \def\affiliationaddressfont{\mdseries}
                            226 \def\affiliationemailfont{\mdseries}%
           \sectionfont Section headlines:
              \sec@font
                            227 \def\sectionfont{%
             \para@font
                                 \normalfont
                            229
                                 \bfseries
                                 \boldmath}%
                            230
                            231 \def\sec@font{\sectionfont\large}%
                            232 \def\para@font{\sectionfont}%
           \captionfont Captions:
                            233 \def\captionfont{\normalfont\small\itshape}
                          19.7 Colours
                          These are the colour definitions for a couple of elements.
                          The colours of the cover background (near 25% grey) and cover text (such as headlines, near 75% grey):
      coverbgcolor color
    covertextcolor color
                            234 \definecolor{coverbgcolor}{cmyk}{0.15,0.1,0.09,0}%
                            235 \definecolor{covertextcolor}\{cmyk\}\{0.77,0.76,0.70,0.61\}%
```

headtextcolor color boxframecolor color boxbgcolor color These are the colours of the grey elements in column titles (50% grey) and of the frame and the background of text boxes like that one used in \editorialboard (100% grey = black and 20% grey, respectively).

- 236 \definecolor{headtextcolor}{gray}{0.5}%
  237 \definecolor{boxframecolor}{gray}{1}%
- 23/ \defineColor{boxframeColor}{gray}{1}%
- 238 \definecolor{boxbgcolor}{gray}{0.8}%

## 19.8 Double line spacing

\displayskipstretch
\setdisplayskipstretch
239 \newcomm

- 239 \newcommand{\displayskipstretch}{\baselinestretch}

\setstretch Line space commands.

```
241 \newcommand{\setstretch}[1]{%
242 \def\baselinestretch{#1}%
243 \@currsize
244 }
```

\@setsize Modification of the LaTeX command \@setsize. Stretch the baseline *before* calculating the strut size. This improves spacing below tabular environments etc., probably.

The meanings of the arguments to \@setsize appear to be (whatever these may signify):

#### **Syntax:**

```
\ensuremath{\mbox{\tt Qsetsize}} {\langle \textit{current size} \rangle} {\langle \textit{font baselineskip} \rangle} {\langle \textit{ignored (!)} \rangle} {\langle \textit{font size} \rangle}
```

Note that \@setsize (in modern LaTeX, \@setfontsize, which is called by \@setsize) seems to be the only place in purely modern LaTeX where \@currsize is set, and ltxguide.cls seems to be the only file in the LaTeX base distribution that uses it.

```
245 \def\@setsize#1#2#3#4{%
     \@nomath#1%
246
247
     \let\@currsize#1%
     \baselineskip #2%
248
     \baselineskip=\baselinestretch\baselineskip
249
250
     \parskip=\baselinestretch\parskip
     \setbox\strutbox \hbox{%
251
       \vrule height.7\baselineskip
252
               depth.3\baselineskip
253
               width\z@}%
254
     \skip\footins=\baselinestretch\skip\footins
255
     \normalbaselineskip\baselineskip#3#4}
256
```

Fix up spacing before and after displayed math (arraystretch seems to do a fine job for inside LaTeX displayed math, since array and equarray seem to be affected as expected).

```
257 \everydisplay\expandafter{%
258 \the\everydisplay
259 \abovedisplayskip \displayskipstretch\abovedisplayskip
260 \belowdisplayskip \displayskipstretch\belowdisplayskip
261 \abovedisplayshortskip \displayskipstretch\abovedisplayshortskip
262 \belowdisplayshortskip \displayskipstretch\belowdisplayshortskip
263 }
```

#### 19.9 Document markup

#### 19.9.1 Declaring issue data

The following macros save their argument(s) to internal variables for later usage:

```
The journal name.
                          \journalname
                                                              264 \def\journalname#1{\@bsphack\def\@journalname{#1}\@esphack}%
                                                              265 \journalname{Enterprise Modelling and Information Systems Architectures}%
                  \journalsubtitle The journal's subtitle.
                                                              266 \def\journalsubtitle#1{\@bsphack\def\@journalsubtitle{#1}\@esphack}%
                                                              267 \journalsubtitle{International Journal of Conceptual Modeling}%
                                                           The International Standard Serial Number (ISSN) is the standardized international code which allows
                                                           the identification of any serial publication, including electronic serials, independently of its country of
                                                           publication, of its language or alphabet, of its frequency, medium, etc.; see the ISSN web site.
                                                           Here we have two of them, one for print and one for online issues.
                                                              \label{longdef} $$  \ \end{def} \end{def} \end{def} \end{def} \end{def} \end{def} $$  \ \end{def} $$  \ \end{def} $$  \ \end{def} $$  \end{def} $$$  \end{def} $$  \end{def} $$  \end{def} $$  \end{def} $$  \end{def} $$$  \end
                                                              269 \issn{%ISSN 1860-6059 (Print)\par
                                                              270
                                                                                   ISSN 1866-3621 (Online)}%
                                      \volume Volume number.
                                                              271 \def\volume#1{\@bsphack\def\@volume{#1}\@esphack}%
                                                              272 \volume{\textcolor{red}{0}}%
                                        \issue Issue number and date.
                                                              273 \def\issue#1#2{\@bsphack
                                                                           \def\@issue{#1}\%
                                                              275
                                                                           \def\@issuedate{#2}%
                                                                           \@esphack}%
                                                              277 \issue{\textcolor{red}\{0\}}{\textcolor{red}{month 0000}}%
             \specialissuetitle If the current issue is a special issue, the respective title goes here.
           \specialissuetitle*
                                                              278 \def\specialissuetitle{\@ifstar\@sspit\@spit}%
\specialissuetitleprefix
                                                              279 \newcommand{\@spit}[2][]{%
                                                                           \@bsphack
                                                              280
                                                                           \ensuremath{\mbox{@ifempty}{\#2}\%}
                                                              281
                                                                             {\let\@specialissuetitle\relax}%
                                                              282
                                                                             {\@ifempty{#1}%
                                                              283
                                                                                  {\def\@specialissuetitle{\@specialissuetitleprefix#2}}%
                                                              284
                                                                                  {\def\@specialissuetitle{#1\space#2}}}%
                                                              285
                                                                           \@esphack}%
                                                              286
                                                                      \newcommand{\@sspit}[2][]{%
                                                              287
                                                                           \@bsphack
                                                              288
                                                                           \ensuremath{\mbox{@ifempty}{\#2}}\%
                                                              289
                                                                             {\let\@specialissuetitle\relax}%
                                                              290
                                                                             {\def\@specialissuetitle{#2}}%
                                                              291
                                                                           \@esphack}%
                                                              292
                                                              293 \newcommand{\specialissuetitleprefix}[1]{%
                                                                           \@bsphack
                                                              294
                                                              295
                                                                           \emptyset if empty {#1}%
```

{\let\@specialissuetitleprefix\relax}%

296

```
297 {\def\@specialissuetitleprefix{#1\space}}%
298 \@esphack}%
299 \specialissuetitle{}%
300 \specialissuetitleprefix{Special Issue on}%

\copyrightyear
Copyright owner and year.
\copyrightholder
301 \def\copyrightyear#1{\@bsphack\def\@copyrightyear{#1}\@esphack}%
302 \copyrightyear{\the\year}%
303 \def\copyrightholder#1{\@bsphack\def\@copyrightholder{#1}\@esphack}%
```

\title \subtitle

\author

Title, subtitle, and author information for the current article.

304 \copyrightholder{\textcolor{red}{\copyright{}holder}}%

These macros are a bit special as they accept up to *two* optional arguments together with the obligatory one. The optional arguments are for the running-title (*short*) and the table-of-contents (*ToC*) versions, respectively, of the main entry, if there is any:

#### **Syntax:**

If no optional argument is given the obligatory argument will appear in all the respective places.

If one optional argument is given then its' value replaces both the short and the ToC entries.

If *two* optional arguments are given then the value of the first one becomes the *short* headline (et al.) entry, and the second one is reproduced in the table of contents.

If *both* optional arguments are given but the first one is left empty then the *short* entry defaults also to the main value, and only the *ToC* entry is changed.

```
305 \renewcommandtwoopt*{\title}[3][][]{%
                     \@bsphack
306
                     \def\@title{#3}%
307
                     308
                                                       \@ifempty{#2}{\def\@toctitle{\@shorttitle}}{\def\@toctitle{#2}}%
309
                     \@esphack}%
310
311 \newcommandtwoopt*{\subtitle}[3][][]{%
                    \@bsphack
312
                    \def\@subtitle{#3}%
313
314
                    \@ifempty{#1}{\def\@shortsubtitle{\@subtitle}}{\def\@shortsubtitle{#1}}%
                     315
                     \@esphack}%
316
317 \def\email#1{%
                        \ifx\@email\@empty
318
319
                                    \def\@email{#1}
320
                                    \ClassError{emisa}{There can only be one corresponding author!}{}
321
322
                         \fi}%
\label{lem:command} $$ \operatorname{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\comma
```

```
324 \newcommand*{\@authornostar}[1]{%
325
     \@bsphack
     \if@referee
326
       \def\@authors{}%
327
        \def\@shortauthors{}
328
     \else
329
          \gdef\@address@sep{}%
330
          \ifx\@authors\@empty
331
              \protected@xdef\@authors{#1}
              \protected@xappto\@shortauthors{#1}
333
          \else
334
              \protected@xappto\@authors{,\space #1}
335
              \protected@xappto\@shortauthors{,\space #1}
336
          \fi%
337
     \fi
338
     \@esphack}%
339
   \newcommandtwoopt*{\@authorstar}[3][][]{%
340
        \@bsphack
341
342
       \if@referee
          \def\@authors{}%
343
          \def\@shortauthors{}%
344
          \def\@tocauthors{}%
345
          \def\@email{}\%
346
        \else
347
          \gdef\@address@sep{}%
348
          \ifx\@authors\@empty
349
              \protected@xdef\@authors{#3\textsuperscript{*,}}
              \protected@xappto\@shortauthors{#3}
351
          \else
352
              \protected@xappto\@authors{,\space #3\textsuperscript{*,}}
353
              \protected@xappto\@shortauthors{,\space #3}
354
355
          \@ifempty{#1}{\def\@shortauthor{\@shortauthors}}{\def\@shortauthor{#1}}%
356
357
          \@ifempty{#2}{\def\@tocauthor{\@shortauthors}}{\def\@tocauthor{#2}}%
358
       \fi
        \@esphack
359
        \@ifnextchar\bgroup\email{\ClassError{emisa}{Please provide an email address for the correspondent
360
   \newcommand{\keywords}[1]{
361
       \@bsphack
362
       \def\and{\unskip\ \textbullet\ }%
363
       \def\@keywords{#1}%
364
       \@esphack}%
365
   \newcommand{\authornote}[1]{
366
      \@bsphack
367
      \if@referee
368
         \def\@authornote{}%
369
      \else
370
          \def\@authornote{#1}%
371
       \fi%
```

372

```
373
                       \@esphack}%
            \newcommand{\editor}[1]{
374
                       \@bsphack
375
                       \def\@articleinfo@name{#1}%
376
                       \@esphack}%
377
            \newcommand{\received}[1]{
378
379
                       \@bsphack
                       \def\@articleinfo@rdate{#1}%
380
                       \@esphack}%
381
            \newcommand{\accepted}[2][]{
                       \@bsphack
383
                       \def\@articleinfo@rounds{#1}
384
                       \def\@articleinfo@adate{#2}%
385
                       \@esphack}%
386
            \newcommand{\doitext}{DOI:}
387
388
            \newcommand*{\outdoi}{%
                    \begingroup
389
                    \c) = \c) \#\c)
391
                    \label{lowercase} \def_{\mbox{$\#$}}
                   \lccode`\~=`\_\relax
392
                    \label{lowercase} \def_{\_}}%
393
                    \c) \sim \c) 
394
                    \lowercase{\def~{\textless}}%
395
                    \lccode`\~=`\>\relax
396
397
                    \lowercase{\def~{\textgreater}}%
398
                   \lccode`\~=0\relax
                    \catcode`\#=\active
399
400
                   \catcode`\_=\active
                    \catcode`\<=\active
401
                    \catcode`\>=\active
402
                    \@outdoi
403
404 }
           \def\@outdoi#1{%
405
406
                    \let\#\relax
407
                   \left| \cdot \right| relax
                    \let\textless\relax
408
                   \let\textgreater\relax
409
                   \edf\x{\toks0={\{\#1\}}}\%
410
411
                   \edef\#{\@percentchar23}%
412
                   \left\{ -\left\{ _{-}\right\} \right\} 
413
                   \edef\textless{\@percentchar3C}% instead of {\string<} for Apple
414
                    \edef\textgreater{\@percentchar3E}% instead of {\string>} for Apple
415
                   416
417
                   418
                    \x
419
420 }
421 \newcommand*{\doi}[1]{
```

```
422
      \@bsphack
       \def\@doi{#1}
423
       \@esphack}%
424
   \newcommand{\acknowledgements}[1]{
425
       \@bsphack
426
       \def\@acknowledgements{#1}
427
       \@esphack}%
428
429 \newif\if@licenseset
   \newcommand{\licence}[1]{%
      \@bsphack
431
       \def\@licence{#1}
432
       \@esphack}%
433
434 \let\license\licence
   \newcommand{\CCBYNCSAThree}{%
435
436
       \@licensesettrue%
437
       \def\doclicense@type{CC}%
      \def\doclicense@modifier@uppercase{BY-NC-SA}%
438
       \def\doclicense@versionUsed{3.0}%
440 }%
   \newcommand{\CCBYNCSAFour}{%
441
       \@licensesettrue%
442
       \def\doclicense@type{CC}%
443
       \def\doclicense@modifier@uppercase{BY-NC-SA}%
444
       \def\doclicense@versionUsed{4.0}%
445
446 }%
   \newcounter{addresses}
   \verb|\renewcommand{\theaddresses}| \{ alph\{addresses\} \}|
   \newcommand{\address}[2][]{%
     \@bsphack
450
     \if@referee
451
         \def\@addresses@list{}
452
     \else
453
         \@ifempty{#2}{%
454
455
              \@ifempty{#1}{}{%
                   \protected@xappto\@authors{\textsuperscript{\@address@sep #1}}
456
                    \gdef\address@sep{,}%
          }}{%
458
                \stepcounter{addresses}
459
                \protected@xappto\@authors{\textsuperscript{\@address@sep\theaddresses}}
460
                \gdef\@address@sep{,}%
461
                \ifx\@addresses@list\@empty
462
                    \protected@xdef\@addresses@list{\textsuperscript{\theaddresses}\ #2}
463
                \else
464
                     \protected@xappto\@addresses@list{\newline\textsuperscript{\theaddresses}\ #2}
465
                \fi}
466
      \fi
467
     \@esphack}%
468
469 \title{}%
```

470 \subtitle{}%

```
471 \author{}%
             472 \address{}
             473 \keywords{}%
             474 \authornote{}%
             475 \editor{}%
             476 \received{}%
             477 \accepted{}%
             478 \doi{}%
             479 \licence{}
             480 \acknowledgements{}%
             481 \def\abstract#1{\@bsphack\def\@abstract{#1}\@esphack}%
             482 \abstract{}%
             483 \def\@authors{}
             484 \def\@shortauthor{}
             485 \def\@shortauthors{}
             486 \def\@tocauthor{}
             487 \def\@tocauthors{}
             488 \def\@email{}
             489 \def\@addresses@list{}
\abstract This accepts the abstract text.
             490 \def\abstract#1{\@bsphack\def\@abstract{#1}\@esphack}%
             491 \abstract{}%
            The articleappendix and articleappendix* environments collect the material given within them
             492 \DeclareRobustCommand{\outputarticleappendix}{%
             493
                   {%
                    \appendix
             494
```

\outputarticleappendix \@articleappendix \@wrap@articleappendix articleappendix articleappendix\*

inside an article environment. The collected material is accumulated and output at the article's very end. The basic form articleappendix begins a new page per instance while the starred form articleappendix\* does not. Each appendix is wrapped into its own group so things remain local.

```
495 \@articleappendix
496 \global\let\@articleappendix\relax
     }%
497
498 }%
499
   \long\def\@wrap@articleappendix#1{\gappto{\@articleappendix}{{#1}}}
   \newenvironment{articleappendix}{%
     \gappto{\@articleappendix}{\clearpage}%
     \Collect@Body\@wrap@articleappendix}{}
502
   \newenvironment{articleappendix*}{%
     \Collect@Body\@wrap@articleappendix}{}
504
505 \let\@articleappendix\relax
   \def\@makefnmark{\textsu{\@thefnmark}\ }%
   \renewcommand\@makefntext[1]{%
       \parindent 1em%
508
       \noindent%
509
       \@makefnmark#1}%
```

#### 19.9.2 Page styles

This is the standard page style:

Page Head: three lines of text, \textwidth wide and aligned to the inner and outer text body borders, respectively, each above a black horizontal line at full sheet width. The text entries comprise:

Line 1, inner side:

- ▶ left pages: journal's subtitle;
- > right pages: journal name.

outer side: no text.

Line 2, inner side: volume/number/issue date, text colour is 50 % grey;

outer side: no text.

Line 3, inner side:

- ▶ left pages: section name;
- □ common right pages: author's name(s);
- ▶ editorial content, both sides: section or category name;

text colour is 50 % grey;

outer side: page number in bold type, coloured black, shifted by an amount of \headpageoffset to the outer edge of the page.

Page foot: Mostly empty; sometimes in editorial content sections it shows a black horizontal line from the outer text edge to the inner sheet edge (spine).

\headwidth \headmargin Basic lengths for head and foot elements. \headwidth is the overall width of the headbox equalling the page width plus a bleed of three millimeters. It is logically restricted to \textwidth by substracting \headmargin at both sides.

\bleed Bleed is a printing term that refers to printing beyond the edge of the sheet after trimming. The \bleed is a measure describing the (small) amount of space by which objects on the border of your document will extend. Please note that this length is not added automatically, but has to be added manually.

\footrulewidth

The width of the foot rule. As it is drawn asymmetrically (running from the outer text edge to the spine) it has to be a bit smaller than the head box.

\headfootruleheight

This is the width of all lines in head and foot.

- 511 \newlength{\headwidth}%
- 512 \newlength{\bleed}%
- 513 \newlength{\headmargin}%
- 514 \newlength{\footrulewidth}%
- 515 \newlength{\headfootruleheight}%
- 516 \setlength{\bleed}{3mm}%
- 517 \setlength{\headfootruleheight}{0.4mm}%

We want to be able to change \bleed in the preamble so we delay the calculations until \begin{document}.

- 518 \AtBeginDocument{%
- \setlength{\headwidth}{\paperwidth+2\bleed}% 519
- \setlength{\headmargin}{0.5\headwidth-0.5\textwidth}%
- 521 \setlength{\footrulewidth}{0.5\headwidth+0.5\textwidth}}%

```
\headbox The main formatting routine for the running head is a tabular* environment.
```

```
522 \newcommand{\headbox}[8]{\bgroup%
                    523
                          \setstretch{1}%
                          \reset@font\pageheadfont
                    524
                          \tabcolsep\z@
                    525
                          \arrayrulewidth\headfootruleheight
                    526
                          \hskip-\headmargin
                     527
                          \begin{tabular*}{\headwidth}[b]%
                    528
                            {@{\rule{\headmargin}{\z@}}%
                    529
                            >{\text{-1.25mm}}_{\text{sm}}_{\text{smm-\arrayrulewidth}}%
                    530
                    531
                            1@{\extracolsep{\textwidth minus 1fill}}r%
                            @{\rule{\headmargin}{\z@}}}
                    532
                            #1 & #2\\
                    533
                    534
                            \hline
                            #3 & #4\\
                    535
                            \hline
                    536
                    537
                            #5 & #6\\
                            \hline
                    538
                            #7 & #8\\
                    539
                    540
                          \end{tabular*}%
                          \hskip-\headmargin
                    541
                          \egroup
                    542
                     543 }%
                   These macros are used to assemble the page head, . . .
  \theheadvolume
 \headpageoffset
                    544 \newcommand{\theheadvolume}{%
 \theoddheadpage
                          \begingroup%
\theevenheadpage
                          \hypersetup{urlcolor=headtextcolor}%
                    546
                          \textcolor{headtextcolor}{%
                    547
                             Vol.\,\@volume, No.\,\@issue\ (\@issuedate).%
                    548
                             \ifx\@doi\@empty\else\ \outdoi{\@doi}\fi}\%
                    549
                          \endgroup}%
                    550
                    551 \newlength{\headpageoffset}%
                    552 \setlength{\headpageoffset}{10mm}%
                    553 \def\theoddheadpage{%
                          \rlap{\makebox[\headpageoffset][r]{\pagenumfont\thepage}}}%
                    555 \def\theevenheadpage{%
                          \llap{\makebox[\headpageoffset][1]{\pagenumfont\thepage}}}%
 @footrule switch
                   ... and these are for the page foot.
    \footruleoff
                    557 \newif\if@footrule%
     \footruleon
                    558 \def\footruleoff{\global\@footrulefalse}%
       \footrule
                    559 \def\footruleon{\global\@footruletrue}%
                    560 \def\footrule#1{%
                          \if@footrule
                    561
                            \makebox[\textwidth][#1]{%
                    562
                               \reset@font
                    563
                    564
                              \rule[\headfootruleheight]{\footrulewidth}{\headfootruleheight}%
```

```
565
                                }\fi}%
    \headmarkstyle
                     Sets the content marks in the running titles.
         \markhead
                      566 \def\headmarkstyle#1{\@bsphack
      \markarticle
                            \def\@headmarkstyle{#1}%
    \markeditorial
                            \@esphack}%
                      569 \headmarkstyle{\color{headtextcolor}}%
                      570 \def\markhead#1#2{\@bsphack
                            \gdef\@evenmark{#1}%
                      571
                            \gdef\@oddmark{#2}%
                      572
                            \@esphack}%
                      573
                      574 \def\markarticle{\markhead{\@shortauthor}{\@shorttitle}}%
                      575 \def\markeditorial{\markhead{\@shorttitle}}%
                    Finally that all being thrown together gives the basic page style.
         \ps@emisa
                      576 \def\ps@emisa{%
                            \def\@oddhead{%
                      577
                              \headbox{\@journalname}{}%
                      578
                                      {\theheadvolume}{}%
                      579
                                      {{\@headmarkstyle\@oddmark}}{\theoddheadpage}%
                      580
                                      {\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\fi
                      581
                            }%
                      582
                            \def\@evenhead{%
                      583
                              \headbox{}{\@journalsubtitle}%
                      584
                                      {}{\theheadvolume}%
                      585
                                      586
                      587
                                      {}{\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\:
                      588
                            }%
                            \let\@oddmark\relax
                      589
                            \let\@evenmark\relax
                      590
                            \def\@oddfoot{\footrule{r}}%
                      591
                            \def\@evenfoot{\footrule{1}}%
                      592
  \ps@emisaarticle
                     We have two minimally different page styles:
\ps@emisaeditorial
                     ▶ \ps@emisaarticle for author-named articles, showing the author's names on the left and the article
                        title on the right side;
                     > \ps@emisaeditorial for editorial material, showing the the article title on both sides.
                      594 \def\ps@emisaarticle{%
                            \ps@emisa
                      595
                            \markarticle
                      596
                            \footruleoff
                      597
                      598 }%
                      599 \def\ps@emisaeditorial{%
```

\ps@emisa

\markeditorial

\footruleon

600

601

```
603 }%
604 \AtEndOfClass{\pagestyle{emisa}}%
```

#### 19.9.3 Cover and advertisement pages

\basecoverfont \covervolumefont \covertitlefont These are the font and size definitions for cover pages. We are using the sansserif script from the Libertine package, called *Linux Biolinum*, in two different sizes with the title font being bold.

efont 605 \def\basecoverfont{\normalfont\sffamily}%
606 \def\covervolumefont{%

607 \basecoverfont\fontsize{6mm}{6mm}\selectfont}%

608 \def\covertitlefont{%

609 \basecoverfont\bfseries\fontsize{11mm}{16.5mm}\selectfont}%

\coverIbgname \coverIVbgname \sigmobislogoname \gislogoname These are names for background graphics and logos. As these are subject to be changed from time to time these adjustments are put into the base config file, too.

610 \def\coverIbgname{U1\_bg}%

611 \def\coverIVbgname{U4\_bg}%

613 \def\sigEMISAlogoname{EMISA-Logo-svg}%

614 \def\gislogoname{GIS-logo\_with\_text-300}%

\AtPageDeadCenter \page@empty

\AtPageDeadCenter centers its argument horizontally and vertically around the geometric page center. This macro is to be used inside some eso-pic ShipoutPicture.

\pagebg Background color for one whole page plus bleed.

```
620 \newcommand{\pagebg}[1]{%
621 \AtPageDeadCenter{%
```

622 \textcolor{#1}{\rule{\paperwidth+2\bleed}{\paperheight+2\bleed}}}}%

\thispagebackground

\thispagebackground put its obligatory argument into the background of the running page. If there is a non-empty optional argument it will be interpreted as the style of this page (using \thispagestyle).

```
623 \newcommand{\thispagebackground}[2][]{%
624  \@ifarg{#1}{\thispagestyle{#1}}%
625  \AddToShipoutPicture*{%
626  \unitlength 1mm\relax%
627  {#2}%
628 }}%
```

```
\picturepage additionally empties and flushes the running page, thus producing a picture-only page.
                        629 \newcommand{\picturepage}[2][empty]{%
                              \thispagebackground[#1]{#2}%
                              \null\clearpage
                        631
                      This loads a picture file to generate a picture-only page from.
 \inputpagegraphic
                        633 \newcommandtwoopt*{\inputpagegraphic}[3][empty][]{%
                              \thispagebackground[#1]{\includegraphics[width=\paperwidth,#2]{#3}}%
                              \null\clearpage
                        635
                        636 }%
         \coverpage \coverpage is a special form of the \picturepage:
                        637 \newcommand{\coverpage}[2][]{%
                              \@ifarg{#1}{\setcounter{page}{#1}}%
                        639
                              \picturepage{#2}%
                        640 }%
\thecovervolumeline
                      These represent the
     \thecovertitle
                        641 \newcommand{\thecovervolumeline}{%
                              \parbox[t]{130mm}{%
                        642
                                \raggedright
                        643
                                \color{covertextcolor}\covervolumefont%
                        644
                                Volume\space\@volume
                        645
                                \enspace \left[-1mm\right] \{0.5mm\} \{6mm\} \enspace
                        646
                                No.\,\@issue\space\textbf{\@issuedate}\\[3mm]%
                        647
                                \@specialissuetitle
                        648
                        649
                              }%
                        650 }%
                           \def\thecovertitle{%
                        651
                              \parbox[t][30mm][s]{174mm}{%
                        652
                                \color{covertextcolor}%
                        653
                                \covertitlefont
                        654
                                \raggedright\@journalname\par
                        655
                        656
                                \vskip8mm
                                \covervolumefont
                        657
                                \raggedleft
                        658
                                \textbf{An International Electronic Journal\,}}}
                        659
```

\sigmobispage

This macro holds the complete announcement page on the *GI-SIG-MoBIS portal* to be published on the third cover page (backcover, inside).

\sigmobispage holds just the contents of the SIG-Mobis ad. It produces a box with an outer width of *zero points* and a height as specified by the inner minipage environment. When used as an advertising page it has to be *centered horizontally and vertically* in the page area. This is achieved most easily by using the \AtPageDeadCenter utility macro (see section 19.9.3) from eso-pic [10].

```
660 \def\sigmobispage{%
661 \makebox[\z@][c]{%
```

```
662
                             \begin{minipage}[c][260mm][s]{\textwidth}
                     663
                               \sigmobispagehead
                               \medskip
                     664
                     665
                               The GI-SIG-MoBIS portal provides numerous resources on enterprise
                     666
                               modelling research, such as a full-text digital library, a
                     667
                               bibliography, conference announcements, a glossary and evaluation
                     668
                               reports. It is intended to establish the premier forum for an
                     669
                               international community in enterprise modelling. The new version
                               is based on a Content Management System allowing authorized users
                     671
                               to conveniently upload content. A \BibTeX{} interface allows for
                     672
                               conveniently integrating bibliographic data. Information about
                     673
                               this journal, such as guidelines for authors, tables of content
                     674
                               and full-text access to articles (for GI-SIG-MobIS members only)
                     675
                               are also available on the~portal.
                     676
                               \par
                     677
                               \medskip
                     678
                     680
                               \begin{center}
                                 \includegraphics{GI-SIG-MOBIS_portal}
                     681
                               \end{center}
                     682
                     683
                               \medskip
                     684
                     685
                               GI encourages everybody who wants to participate in the
                     686
                               evolution of this community knowledge base to contribute to any of
                     687
                           the categories covered by the portal. Please contact Michael He\ss{}
                     688
                           (\href{mailto:m.hess@uni-duisburg-essen.de}{m.hess@uni-duisburg-essen.de})
                     689
                           for further~information.
                     690
                     691
                               \vfill
                     692
                     693
                               \sigmobispagefoot
                     694
                             \end{minipage}%
                     696
                           }%
                     697 }
\sigmobispagehead
                    Elements of \sigmobispage.
\sigmobispagefoot
                     698 \def\sigmobispagerule#1{%
\sigmobispagerule
                         \parbox[c][23mm][s]{\linewidth}{\%}
                     699
                     700
                           \centering
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}%
                     701
                           \par\vfill
                     702
                           \raisebox{-.4\height}[.5\totalheight][.5\totalheight]{\huge#1}%
                     703
                           \par\vfill
                     704
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}}\par}%
                         \def\sigmobispagehead{\sigmobispagerule{SIG-MoBIS Portal}}
                     707 \def\sigmobispagefoot{\sigmobispagerule{http://wi-mobis.gi-ev.de/}}
```

```
Each of these prepares one of the cover pages.
  \coverI
 \coverII
             708 \def\coverI#1{\@ifempty{#1}%
\coverIII
                    {\let\@coverI\relax}%
             709
 \coverIV
                    {\def\@coverI{\coverpage[-2]{#1}}}}%
             711 \def\coverII#1{\@ifempty{#1}%
             712
                    {\let\@coverII\relax}%
                    {\def\@coverII{\coverpage[-1]{#1}}}}%
             713
             714 \def\coverIII#1{\@ifempty{#1}%
                    {\let\@coverIII\relax}%
             715
                    {\def\@coverIII{\coverpage{#1}}}}%
             716
             717 \def\coverIV#1{\@ifempty{#1}%
                    {\let\@coverIV\relax}%
             718
                    {\def\@coverIV{\coverpage{#1}}}}%
             719
           So we prepare the four cover pages.
             720 \coverI{%
             721
                   \pagebg{coverbgcolor}%
                   \AtPageUpperLeft{%
             722
                     \raisebox{-\totalheight}{\includegraphics{\coverIbgname}}}%
             723
             724
                   \AtPageUpperLeft{\put(17,-28){\mbox{%
                     \includegraphics[height=19mm]{\sigmobislogoname}%
             725
                     \hspace{5mm}%
             726
                     \includegraphics[height=14.75mm]{\sigEMISAlogoname}%
             727
                     }}%
             728
                   }%
             729
             730
                   \AtPageLowerLeft{\put(166,9){\includegraphics{\gislogoname}}}%
                   \AtPageLowerLeft{\put(17,44){\thecovervolumeline}}%
             731
                   \AtTextLowerLeft{\put(-28,36){\framebox(200,62)[c]{}}}
             732
             733
                   \AtPageLowerLeft{\put(17,112){\thecovertitle}}%
             734 }%
             735 \coverII{\page@empty}%
             736 \coverIII{\AtPageCenter{\sigmobispage}}%
                \coverIV{%
             737
                   \pagebg{coverbgcolor}%
             738
                   \AtPageLowerLeft{%
             739
                     \raisebox{167mm}{\includegraphics{\coverIVbgname}}}%
             740
                   \AtPageLowerLeft{%
             741
             742
                     \put(6,9){\parbox[b]{10cm}{\raggedright\large\sffamily\@issn}}}%
                   \AtPageLowerLeft{%
             743
                     \put(166,9){\includegraphics{GIS-logo_with_text-300}}}}%
             744
             745 }%
             746 \if@cover
             747
                   \AtBeginDocument{%
                     \@coverI\@coverII
             748
                     \setcounter{page}{1}%
             749
                   }%
             750
                   \AtEndDocument{%
             751
             752
                     \@coverIII\@coverIV
```

```
753 }%
754 \fi
```

\graphicspath

The picture files used above have to be found. Normally they should be somewhere on the TEX \$PATH, probably in the same directory where EMISAJ is situated. As least as we are in Beta state one might put them into the local subdirectory figs\_base/; we provide for that by including the following line in the config file.

```
755 \graphicspath{{/figs_base/},{./figs_base/}}
```

### 19.9.4 Formatting common articles

\c@article The article and editorialcontent environments maintain their own (common) counter. Although it is not referenced anywhere at the moment of writing it is used to reset a couple of other counters with every new one of those environments.

```
756 \newcounter{article}%
757 \@addtoreset{section}{article}%
758 \@addtoreset{footnote}{article}%
759 \@addtoreset{figure}{article}%
760 \@addtoreset{table}{article}%
```

article This encapsulates each article.

```
761 \newenvironment{article}[1]{%
762  \clearpage
763  \refstepcounter{article}%
764  \pagestyle{emisaarticle}%
765  \col@number=\tw@\relax
766  #1\relax
767  \l@article
```

Every article is its own bibliographical unit.

```
\begin{refsection}%
768
769
     \maketitle
770
     \ignorespaces
     }{%
771
     \end{refsection}%
772
     \outputarticleappendix\FloatBarrier\par%
773
     \vspace{\baselineskip}%
774
     \noindent\ignorespaces
775
     \if@licenseset
776
         \edef\doclicenseURL{%
777
            \doclicense@baseUrlCC/%
779
            licenses/%
            \doclicense@modifier/%
780
            \doclicense@versionUsed\doclicense@UrlLangPart%
781
782
         \begin{minipage}{\columnwidth}
783
784
         \parbox[t]{\dimexpr 0.975\columnwidth-\doclicense@imagewidth\relax}{\vskip 0pt\raggedright\:
```

```
\doclicense@lang@thisDoc\space
785
                                                                           \label{localize} $$ \end{Type\space} \end{Type\space} \end{Localize} $$ \end{Type\space} $$ \end{Type\sp
786
                                                                           \doclicense@lang@word@license.}%
787
                                                       \hfill%
788
                                                       \parbox[t]{\doclicense@imagewidth}{\vskip Opt\doclicenseImage}%
789
                                                       \end{minipage}%
790
791
                                                       \ifx\@licence\@empty\relax\else\par\noindent\@licence\fi%
792
793
                                   \fi%
794
                                   \onecolumn
                                    \ignorespacesafterend}%
795
```

## 19.9.5 Formatting editorial content

\edit@setup This adjusts the basic page makeup for editorial material.

```
796 \newcommandtwoopt{\edit@setup}[3][][]{%
797 \title[#1][#2]{#3}
798 \pagestyle{emisaeditorial}
```

Here, section titles are a bit larger than otherwise.

```
799 \def\sec@font{\sectionfont\Large}%
800 \def\para@font{\sectionfont}%
801 \setcounter{section}{0}%
802 }%
```

editorialcontent

This encapsulates editorial content entries.

```
803 \newenvironment{editorialcontent}[1]{%
804 \onecolumn
805 \refstepcounter{article}%
806 \edit@setup{#1}%
807 \l@editorialcontent
808 \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
```

Every editorial content is its own bibliographical unit.

```
809 \begin{refsection}%
810 \ignorespaces
811 }{%
812 \end{refsection}%
813 \onecolumn
814 \ignorespacesafterend}%
```

## 19.9.6 Standard editorial content environments

Several types of standardized editorial contents.

```
editorial This encapsulates editorials.

\editorialname 815 \def\editorialname{Editorial Preface}%
```

```
816 \newenvironment{editorial}[1][\editorialname]{%
                                 817
                                             \clearpage
                                             \edit@setup{#1}%
                                 818
                                             \twocolumn[{\raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}}]%
                                 819
                                             \l@editorialcontent
                                 820
                              Every editorial is its own bibliographical unit.
                                             \begin{refsection}%
                                 821
                                 822
                                             \ignorespaces
                                             }{%
                                 823
                                            \end{refsection}%
                                 824
                                             \onecolumn
                                             \ignorespacesafterend}%
                                 826
                   cfp Call for papers.
        \cfpname
                                 827 \def\cfpname{Call for Papers}%
                                 828 \newenvironment{cfp}[1][\cfpname]%
                                         {\editorialcontent{#1}}%
                                 830 {\endeditorialcontent}%
        \imprint
                              Imprint.
\imprintname
                                 831 \newcommandtwoopt{\imprint}[2][\@imprintname][\@imprintbody]{%
\imprintbody
                                 832
                                             \onecolumn
                                             \edit@setup[#1]{\@journalname}%
                                 833
                                             \l@editorialcontent
                                 834
                                             \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
                                 835
                                             \ignorespaces
                                 836
                                             #2
                                 837
                                             \onecolumn\ignorespacesafterend}%
                                 838
                                 839 \def\imprintname#1{\@bsphack\def\@imprintname{#1}\@esphack}%
                                        \label{longdefimprintbody#1} $$ \end{area} $$ \label{longdefimprintbody#1} $$ \end{area} $$ \end{a
                                 841 \imprintname{Imprint}%
                                 842 \imprintbody{%
                                             The journal \emph{\@journalname} is the official journal of the
                                 843
                                             Special Interest Group on Modelling Business Information Systems
                                             within the German Informatics Society (GI-SIG MoBIS).
                                 845
                                 846
                                             The journal Enterprise Modelling and Information Systems
                                 847
                                             Architectures is intended to provide a forum for those who prefer a
                                 848
                                             design-oriented approach. As the official journal of the German
                                 849
                                             Informatics Society (GI-SIG-MoBIS), it is dedicated to promote the
                                 850
                                             study and application of languages and methods for enterprise
                                 851
                                 852
                                             modelling -- bridging the gap between theoretical foundations and
                                             real world requirements. The journal is not only aimed at
                                 853
                                             researchers and students in Information Systems and Computer
                                 854
                                             Science, but also at information systems professionals in industry,
                                 855
                                             commerce and public administration who are interested in innovative
                                 856
                                             and inspiring concepts.
                                 857
```

```
858
859
     The journal's editorial board consists of scholars and practitioners
     who are renowned experts on various aspects of developing, analysing
860
     and deploying enterprise models. Besides Information Systems, they
861
     cover various fields of Computer Science.
862
863
     \section*{Subscription Information}
864
865
     The journal is distributed free of charge for members of the
     GI-SIG-MoBIS. Membership can be acquired through the German
867
     Informatics Society (http://www.gi-ev.de/verein/mitgliedschaft/).
868
     Single issues, priced at EUR\,25 each (plus shipment), can be ordered
869
     online (http://www.fg-mobis.gi-ev.de/).}
870
```

\editorialboard Outputs the Editorial Board page.

\editorialboardname Sets the name of the Editorial Board for use in the table of contents and in \editorialboard.

\editorialboardbody Sets the contents of the Editorial Board for use in \editorialboard.

The vertical size of the Editorial Board will exceed page height if there are more than about 48 name entries and/or other material. To prevent that the grey box is scaled down to a height of \editorialboxmaxheight if its natural size is bigger than that.

```
871 \newsavebox{\@editorial@box}%
872 \newlength{\editorialboxmaxheight}%
873 \setlength{\editorialboxmaxheight}{\textheight+10mm}%
874 \newcommandtwoopt{\editorialboard}[2]%
    [\@editorialboardname][\@editorialboardbody]{%
875
     \clearpage
876
     \edit@setup[#1]{#1}%
877
     \l@editorialcontent
     \savebox{\@editorial@box}{%
879
       \vbox{\centering%
880
     \fboxsep=5mm
881
     \fcolorbox{boxframecolor}{boxbgcolor}{%
882
883 \begin{minipage}[t]{110mm}
     \raggedright
884
885
886 \end{minipage}}\\*
887 }%
888
     \raisebox{15mm-\totalheight}[5mm][0mm]{\makebox[\textwidth][c]{%
889
       \ifdim\ht\@editorial@box>\editorialboxmaxheight
890
     \resizebox{!}{\editorialboxmaxheight}{\usebox{\@editorial@box}}%
891
892 \else
     \usebox{\@editorial@box}%
893
894 \fi
     }}\\*
895
     \raisebox{-\textheight}[0mm][0mm]{\makebox[\textwidth][1]{%
     \parbox[t]{\textwidth}{\raggedleft\bfseries\@issn}%
```

```
898 }}%
```

899 \onecolumn\ignorespacesafterend

- 900 }%
- 901 \def\editorialboardname#1{%
- 902 \@bsphack\def\@editorialboardname{#1}\@esphack}%
- 903 \long\def\editorialboardbody#1{%
- 904 \@bsphack\def\@editorialboardbody{#1}\@esphack}%
- 905 \editorialboardname{Editorial Board}%
- 906 \editorialboardbody{%
- 907 \section\*{\@title}\vskip1mm
- 908 {\Large Editors in Chief\\[1mm]}
- 909 Ulrich Frank, University of Duisburg-Essen\\
- 910 Manfred Reichert, Ulm University\\[1mm]
- 911 {\Large Associate Editors\\[1mm]}
- 912 Wil van der Aalst, Eindhoven University of Technology\\
- 913 Witold Abramowicz, Poznan University of Economics\\
- 914 Colin Atkinson, University of Mannheim\\
- 915 J\"org Becker, University of M\"unster\\
- 916 J\"org Desel, University of Hagen\\
- 917 Werner Esswein, Dresden University of Technology\\
- 918 Fernand Feltz, Centre de Recherche Public Gabriel Lippmann\\
- 919 Andreas Gadatsch, Bonn-Rhine-Sieg University of Applied Sciences\\
- 920 Martin Glinz, University of Zurich\\
- 921 Norbert Gronau, University of Potsdam\\
- 922 Wilhelm Hasselbring, University of Kiel\\
- 923 Brian Henderson-Sellers, University of Technology, Sydney\\
- 924 Stefan Jablonski, University of Bayreuth\\
- 925 Manfred Jeusfeld, Tilburg University\\
- 926 Reinhard Jung, University of St.\,Gallen\\
- 927 Dimitris Karagiannis, University of Vienna\\
- 928 John Krogstie, University of Trondheim\\
- 929 Thomas K\"uhne, Victoria University of Wellington\\
- 930 Frank Leymann, University of Stuttgart\\
- 931 Stephen W. Liddle, Brigham Young University\\
- 932 Peter Loos, Johannes Gutenberg-University of Mainz\\
- Oscar Pastor L\'opez, Universidad Polit\`ecnica de Val\`encia\\
- 934 Heinrich C. Mayr, University of Klagenfurt\\
- Jan Mendling, Vienna University of Economics and Business\\
- 936 Markus N\"uttgens, University of Hamburg\\
- 937 Andreas Oberweis, University of Karlsruhe\\
- 938 Erich Ortner, Darmstadt University of Technology\\
- 939 Erik Proper, Radboud University Nijmegen\\
- 940 Michael Rebstock, University of Applied Sciences Darmstadt\\
- 941 Stefanie Rinderle-Ma, University of Vienna\\
- 942 Michael Rosemann, Queensland University of Technology\\
- 943 Matti Rossi, Aalto University\\
- 944 Elmar J. Sinz, University of Bamberg\\
- 945 Friedrich Steimann, University of Hagen\\
- 946 Stefan Strecker, University of Hagen\\

```
947 Bernhard Thalheim, University of Kiel\\
```

- 01iver Thomas, University of Osnabr\"uck\\
- 949 Juha-Pekka Tolvanen, University of Jyv\"askyl\"a\\
- 950 Klaus Turowski, University of Augsburg\\
- 951 Gottfried Vossen, University of M\"unster\\
- 952 Mathias Weske, University of Potsdam\\
- 953 Robert Winter, University of St.\,Gallen\\
- 954 Heinz Z\"ullighoven, University of Hamburg}%

#### \guidelines Guidelines for Authors.

# \guidelinesname \guidelinesbody

- 955 \newcommandtwoopt{\guidelines}[2]%
- 956 [\@guidelinesname][\@guidelinesbody]{%
- 957 \onecolumn
- 958 \edit@setup{#1}%
- 959 \l@editorialcontent
- 960 \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
- 961 \ignorespaces
- 962 #2
- 963 \onecolumn\ignorespacesafterend}%
- 964 \def\guidelinesname#1{%
- 965 \@bsphack\def\@guidelinesname{#1}\@esphack}%
- 966 \long\def\guidelinesbody#1{%
- 967 \@bsphack\def\@guidelinesbody{#1}\@esphack}%
- 968 \guidelinesname{Guidelines for Authors}%
- 969 \guidelinesbody{%
- 970 The journal serves to publish results of innovative research on all
- 971 facets of creating and analysing enterprise models and information
- 972 systems architectures. For research papers, it is required to
- 973 satisfy academic standards in terms of originality, level of
- 974 abstraction and justification of results. Experience reports serve
- 975 to describe and analyse success stories as well as practical
- 976 obstacles and resulting research challenges. Topics covered by the
- journal include, but are not restricted to the following subjects:
- 978 \begin{itemize}
- 979 \item Languages and Methods for Enterprise Modelling
- 980 \item Reusable Domain Models (Reference Models)
- 981 \item Analysis and Design Patterns
- 982 \item Modelling of Business Processes and Workflows
- 983 \item Process-Oriented System Architectures
- 984 \item Component-Oriented System Architectures
- 985 \item Conceptual Modelling for Component-Oriented Design
- 986 \item Ontologies for Enterprise Modelling
- 987 \item Modelling for Enterprise Application Integration
- 988 \item Modelling for Data Warehouses
- 989 \item Modelling to support Knowledge Management
- 990 \item Model-Driven Development
- 991 \item Aspect-Oriented Design
- 992 \item Agile Methods for Enterprise Modelling

```
993
      \end{itemize}
      Authors are asked for electronic submissions, which have to be sent
994
      to the editor in chief as e-mail attachment. In case of multiple
995
      authors, it is required to name one author who acts as contact
996
      person. The submission should include a cover page with the paper's
997
      title and the names, affiliations and e-mail addresses of all
998
      authors. The first page of the paper starts with the title and does
999
      not carry the authors' names. A manuscript must be either in MS
1000
      Word or PDF format. It should not exceed 5.000 words -- this
1001
      includes an abstract of around 150 words.
1002
1003
      Submitted papers will be reviewed within no more than two months.
1004
      The review process is double blind. Authors who submit a manuscript
1005
      guarantee that it has not been published elsewhere, nor is intended
1006
1007
      to be published elsewhere. Papers that were accepted for
      publication must be written according to the style defined for the
      journal. A comprehensive description as well as a corresponding
1009
      Word template is provided on the web portal of the GI-SIG-MobIS
1010
1011
      (http://www.fg-mobis.gi-ev.de/).}
```

## 19.9.7 Making the title

\maketitle This takes a couple of prerequisites, then looks if we are in one- or twocolumn mode and finally outputs the information accordingly.

```
1012 \def\maketitle{%
1013
       \begingroup
       \let\footnoterule\relax
1014
       \let\footnote\thanks
1015
       \let\thefootnote\relax
1016
       \def\@makefnmark{\textsuperscript{\@thefnmark}}%
1017
       \ifnum\col@number=\@ne
1018
           \@maketitle
1019
       \else
1020
           \twocolumn[\@maketitle]%
1021
1022
       \fi
       \global\@topnum\z@
1023
       \@thanks
1024
       \endgroup
1025
       \setcounter{footnote}{0}%
1026
1027 }%
```

\@maketitle This assembles and outputs the article title.

```
1028 \def\@maketitle{%
1029 \bgroup
1030 \normalfont
1031 \pretolerance=9999
1032 \parskip\z@
1033 \parindent\z@
```

```
\if!\@title!
1034
1035
        \else
        {\raggedright
1036
             \titlefont\ignorespaces
1037
             \strut\@title\strut\par}%
1038
        \vskip2mm\relax
1039
1040
      \if!\@subtitle!
1041
      \vskip5mm\relax
1042
      \else
1043
         {\makebox[\textwidth][r]{%
1044
           \begin{minipage}{\textwidth-15mm}
1045
               \raggedright
1046
               \subtitlefont\ignorespaces
1047
               \strut\@subtitle\strut
1048
1049
             \end{minipage}}%
             \par}%
1050
1051
        \vskip5mm\relax
1052
      \fi
      \if!\@authors!
1053
      \else
1054
      {\raggedright
1055
       \authorfont\ignorespaces
1056
       \strut\@authors
1057
1058
       \ifx\@email\@empty
            \ClassError{emisa}{There has to be one corresponding author!}{Please use \string\author*
1059
1060
       \else
           \ignorespaces\makebox[0pt][1]{\footnote{*~Corresponding author.\newline E-mail.\ \url{\@email.}
1061
1062
       \ifx\@acknowledgements\@empty
1063
1064
           \ignorespaces\makebox[0pt][1]{\footnote{\@acknowledgements}}%
1065
       \fi%
1066
       \strut\par}%
      \vskip2mm\relax
1068
      \fi
1069
      \if!\@addresses@list!
1070
      \else
1071
1072
        {\raggedright
         \footnotesize\ignorespaces
1073
          \strut\@addresses@list\strut\par}%
1074
        \vskip8mm\relax
1075
1076
      \fi
      \if!\@authornote!
1077
      \else
1078
        \let\thefootnote\relax
1079
        \ignorespaces\makebox[0pt][1]{\footnote{Note: \@authornote}}%
1080
1081
      \if!\@abstract!
1082
```

```
\else
1083
1084
        {\abstractfont\ignorespaces
        \strut\textup{Abstract.\ }\@abstract\strut\par}%
1085
        \vskip5mm\relax
1086
      \fi
1087
      \if!\@keywords!
1088
1089
        \vskip3mm\relax
1090
      \else
       {\raggedright
1091
        \ignorespaces
1092
        \strut Keywords.\ \@keywords\strut\par}
1093
        \vskip3mm\relax
1094
1095
      \fi
      \if!\@articleinfo@name!
1096
1097
        \if!\@articleinfo@rdate!
          \if!\@articleinfo@adate!
1098
             \vskip\baselineskip\relax
1099
          \fi
1100
1101
        \fi
      \else
1102
       {\raggedright
1103
        \small
1104
        \ignorespaces
1105
1106
        \strut Communicated by\ \@articleinfo@name.%
        \if!\@articleinfo@rdate!%
1107
        \else
1108
            \space Received\ \@articleinfo@rdate.%
1109
        \fi%
1110
        \if!\@articleinfo@adate!%
1111
        \else
1112
1113
            \space Accepted\ %
            \if!\@articleinfo@rounds!%
1114
            \else%
1115
1116
              \ifnum\@articleinfo@rounds=1
                 after \@articleinfo@rounds{} revision\space%
1117
              \else
1118
                 after \@articleinfo@rounds{} revisions\space%
1119
              \fi%
1120
            \fi%
1121
            on \@articleinfo@adate.
1122
        \fi%
1123
1124
        \strut\par}
        \vskip5mm\relax
1125
      \fi
1126
1127
      \egroup
1128 }
```

### 19.9.8 Sectioning

\@sect This internal macro facilitates the representation of unstarred sectioning commands using \@startsection.

## Syntax:

```
 \begin{tabular}{ll} $$ (\#3: indent) { (\#4: beforeskip) } { (\#5: afterskip) } { (\#6: style) } [ (\#7: toc-heading) ] { (\#8: heading) } $$ (\#8: heading) } $$ (\#8: heading) } $$ (\#8: heading) }$$ (\#8: heading) }
```

Here is the meaning of all these parameters:

(name) The name of the current sectioning level, e.g., «subsection».

 $\langle level \rangle$  The level number, describing the hierarchical depth of the current sectioning level named in – e.g., chapter = 1, section = 2, etc. This is used namely in the tabel of contents.

(*indent*) The indentation of the heading, relative to the left margin. Positive values shift the heading to the right («inward»), negative values to the left («outward»).

**(beforeskip)** The absolute value represents the space to leave above the heading. If the value is negative, the first paragraph indent following the heading is suppressed.

(afterskip) If positive, then the section heading is typeset on its own line and the value determines the amount of vertical space to leave below the heading. If negative, then the section heading is typeset run-in and the absolute value determines the amount of horizontal space to leave between the heading and the following text.

⟨style⟩ Commands to set the output style. Since he June 1996 release of Late X 2<sub>E</sub> the last command in this argument may be a command such as \MakeUppercase or \fbox that takes an argument. The section heading will be supplied as the argument to this command. So setting this to, say, «\bfseries\MakeUppercase» would produce bold, uppercase headings.

 $\langle toc\text{-heading} \rangle$  The optional string to be output in the table of contents (toc). If not given, the value from  $\langle heading \rangle$  is used.

⟨*heading*⟩ The heading text to be output in the text body.

These parameters are used also in more high-level sectioning macros upto the familiar user level commands defined below.

```
1129 \def\@sect#1#2#3#4#5#6[#7]#8{%
1130 \ifnum #2>\c@secnumdepth
1131 \let\@svsec\@empty
1132 \else
1133 \refstepcounter{#1}%
```

Since \@seccntformat might end with an improper \hskip which is scanning forward for plus or minus we end the definition of \@svsec with \relax as a precaution.

```
1134 \protected@edef\@svsec{\@seccntformat{#1}}%
1135 \fi
1136 \@tempskipa #5\relax
1137 \ifdim \@tempskipa>\z@
```

If afterskip is positive, then its value denotes the amount of vertical skip to leave below the heading:

```
1138 \begingroup
1139 #6{\noindent%
```

```
\@hangfrom{\hskip #3\relax\@svsec}%
1140
               \raggedright
1141
               \interlinepenalty\@M
1142
               \strut#8\strut
1143
               \@@par}%
1144
        \endgroup
1145
         \csname #1mark\endcsname{#7}%
1146
         \addcontentsline{toc}{#1}{%
1147
           \ifnum #2>\c@secnumdepth \else
1148
             \protect\numberline{\csname the#1\endcsname}%
1149
          \fi
1150
          #7}%
1151
1152
      \else
```

If afterskip is negative, the its absolute value indicates the amount of horizontal skip to leave to the right of the run-in heading.

```
1153
        \def\@svsechd{%
           #6{\hskip #3\relax
1154
           \@svsec #8}%
1156
          \csname #1mark\endcsname{#7}%
           \addcontentsline{toc}{#1}{%
1157
             \ifnum #2>\c@secnumdepth \else
1158
               \protect\numberline{\csname the#1\endcsname}%
1159
             \fi
1160
             #7}}%
1161
1162
      \fi
      \@xsect{#5}}
```

\@ssect The mechanism is very similar for *starred* sectioning commands, but there are few parameters.

## **Syntax:**

```
\ensuremath{\mbox{\@ssect}\{\langle \#1: indent\rangle\}\{\langle \#2: beforeskip\rangle\}\{\langle \#3: afterskip\rangle\}}
  \{\langle #4: style \rangle\}\{\langle #5: heading \rangle\}
See also the list on p. 48.
1164 \def\@ssect#1#2#3#4#5{%
1165
         \@tempskipa #3\relax
         \ifdim \@tempskipa>\z@
1166
           \begingroup
1167
              #4{\noindent%
1168
                 \hskip #1\relax
1169
1170
                 \noindent%
1171
                 \parbox[t]{\linewidth}{%
                    \raggedright\interlinepenalty\@M#5\strut}\@@par}%
1172
           \endgroup
1173
1174
           \def\@svsechd{#4{\hskip #1\relax #5}}%
1175
         \fi
1176
         \@xsect{#3}}
1177
```

\@seccntformat This formats the counters (including any whitespace) of sectioning headers.

```
1178 \def\@seccntformat#1{%
1179 \csname the#1\endcsname%
1180 \relax\ \ }%
```

\section These are the sectioning commands, all being built on top of \@startsection.

### **Syntax:**

```
\begin{tabular}{l} $$ \extraction {$\langle \#1: name \rangle$ } {\langle \#2: level \rangle$ } $$ $$ {\langle \#3: indent \rangle$ } {\langle \#4: beforeskip \rangle$ } {\langle \#5: afterskip \rangle$ } $$ $$ {\langle \#6: style \rangle$} $$
```

See also the list on p. 48.

All the user level sectioning commands are defined using \@startsection.

Normally the corresponding section level counter is incremented and printed out; the exact output is determined by the definition of the corresponding \the... macro. Additionally, the command uses the counter secnumdepth to determine the highest section level to be numbered at all. If an asterisk (\*) follows the command, then the corresponding section level counter is *not* used and *no* [ $\langle altheading \rangle$ ] argument is allowed.

```
1181 \def\section{\@startsection{section}%
                 1182
                        {1}{\z@}%
                        {-1\baselineskip plus -2mm minus -2mm}%
                 1183
                        {.5\baselineskip plus .25\baselineskip minus .125\baselineskip}%
                 1184
                 1185
                        {\sec@font}}%
   \subsection
                 1186 \def\subsection{\@startsection{subsection}%
                 1187
                        {2}{\z@}%
                 1188
                        {-3mm plus -2mm minus -1.5mm}%
                        {.25\baselineskip plus .125\baselineskip minus .125\baselineskip}%
                 1189
                 1190
                        {\sec@font}}%
\subsubsection
                 1191 \def\subsubsection{\@startsection{subsubsection}%
                 1192
                        {3}{\z@}%
                        {-3mm plus -2mm minus -1mm}%
                 1193
                        {1sp}%
                 1194
                        {\sec@font}}%
                 1195
    \paragraph
                 1196 \def\paragraph{\@startsection{paragraph}%
                 1197
                        {4}{\z@}%
                        {-1.5mm plus -1mm minus -0.75mm}%
                 1198
                        {1sp}%
                 1199
                        {\para@font}}%
                 1200
```

```
\subparagraph
```

### 19.9.9 The table of contents

\tableofcontents This typesets the table of contents (ToC). First the page style is set and the title line is typeset, ...

```
1206 \def\tableofcontents{%
      \onecolumn
1207
      \pagestyle{emisaeditorial}%
1208
      \footruleon
1209
      \title{Table of Contents}%
1210
1211
      \null
      \vskip10mm
1212
      \maketitle
1213
1214
      \vskip15mm
1215
      \bgroup
```

... then, after some more adjustments, the entries are read from  $\langle jobname \rangle$ . toc using  $\ensuremath{\texttt{Qstarttoc}}$  and output.

\landblacktricle These two routines output content lines to the ToC.

## \l@editorialcontent

```
1222 \newcommand*\l@article{%
1223 \if!\@subtitle!
1224 \addtocentry{\@tocauthor}{\thepage}{\@toctitle}%
1225 \else
1226 \addtocentry{\@tocauthor}{\thepage}{\@toctitle\ --\ \@tocsubtitle}%
1227 \fi}%
1228 \newcommand*\l@editorialcontent{%
1229 \addtocentry{\@toctitle}{\thepage}{}}%
```

 $\addtocentry$ 

\addtocentry adds an entry using the typical EMISAJ layout to the contents listing of choice (default: ToC).

```
1230 \newcommand*\addtocentry[4][toc]{%
1231 \addtocontents{#1}{\string\emisa@tocentry{#2}{#3}{#4}}}%
```

\emisa@tocentry \emisa@tocentry typesets that entry.

```
1232 \newcommand{\emisa@tocentry}[3]{%
1233  \makebox[\textwidth][1]{%
1234    \parbox[t]{72.5mm-\@pnumwidth}{\raggedright\textbf{#1}}%
1235    \makebox[\@pnumwidth][r]{\textbf{#2}}%
1236    \hfill
1237    \parbox[t]{85mm}{\raggedright#3}}%
1238    \vspace{3mm}}%
```

The output of ToC entries of level -1 (\part) and above is suppressed.

```
1239 \setcounter{tocdepth}{-2}
```

#### 19.9.10 A few abbreviations

```
\ie
                    Macros for a couple of abbreviations used quite frequently.
               \eg
                     1240 \newcommand*{\emisa@abbrv}[1]{#1\@\xspace}
               \cf
                     1241 \newcommand*{\emisaabbrv}[2]{\gdef#1{\emisa@abbrv{#2}}}
             \etal
                     1242 \newcommand*{\emisa@initialism}[1]{\textsc{#1}\xspace}
                          \label{lem:command*} $$\operatorname{\mathcommand*{\mathcolorer}[2]_{\gdef\#1{\mathcolorer}[42})}$
     \emisa@abbrv
                          \newcommand*{\ie}{\emisa@abbrv{i.\,e.}}
      \emisaabbrv
                     1244
                          \newcommand*{\eg}{\emisa@abbrv{e.\,g.}}
                     1245
\emisa@initialism
                          \newcommand*{\cf}{\emisa@abbrv{cf.}}
                     1246
 \emisainitialism
                          \newcommand*{\etal}{\emisa@abbrv{et~al.}}
                     1247
              \OMG
                     1248 \newcommand*{\OMG}{\emisa@initialism{omg}}
              \BPM
                     1249 \newcommand*{\BPM}{\emisa@initialism{bpm}}
             \BPMN
                     1250 \newcommand*{\BPMN}{\emisa@initialism{bpmn}}
              \UML
                     1251 \newcommand*{\UML}{\emisa@initialism{uml}}
```

## 19.9.11 Other macros defined by EMISAJ

## 19.10 Bibliographies

The infrastructure for that is already present in LaTeX [18, ltbibl.dtx] so we have to tinker with just a couple of things.

\bibliography

biblatex defines this macro in a way that it prescribes the bibliography data base(s) globally for the whole of the document. As we need a means to use different bibliography data bases with different articles, we redefine \bibliography such that it (1) works globally (biblatex style), when used in the preamble; (2) works locally in the document body (as defined here); and (3) appends locally to any globally given bibliography data base(s).

Point 1 is met simply by postponing the redefinition until \begin{document}. That way we have the unchanged behaviour in the preamble and the new one after that.

Points 2 and 3 lead to redefining this macro the same way as it was (in principle; see the original definition in biblatex.sty) but limited to a local scope.

```
1254 \def\@tempa#1\do\addbibresource#2\ni1{%
       \ifx\relax#2\relax
1255
       \else
1256
       1257
       \expandafter\@tempa\@preamblecmds\nil
1258
       \fi
1259
1260 }
    \expandafter\@tempa\@preamblecmds\do\addbibresource\nil
   \AfterEndPreamble{%
      \DeclareRobustCommand{\bibliography}[1]{%
1263
         \addbibresource{#1}}%
1264
1265 }%
1266 \renewcommand{\fps@figure}{htbp}
1267 \renewcommand{\fps@table}{htbp}
1268 \tolerance 1414
1269 \hbadness 1414
1270 \emergencystretch 1.5em
1271 \hfuzz 0.3pt
1272 \widowpenalty=10000
1273 \displaywidowpenalty=10000
1274 \clubpenalty=5000
1275 \interfootnotelinepenalty=9999
1276 \brokenpenalty=2000
1277 \vfuzz \hfuzz
```

Here, the generation of the main class module is paused by the first tag (there are more pieces below); instead, generating a few biblatex-related code files starts with the second tag.

```
1278 (/class)
1279 (*biblatex)
```

## 19.10.1 The EMISAJ bibliography style

A bibliatex *bibliography style* is a set of macros used to output the entries in the bibliography. Bibliography styles are defined in files with the suffix bbx. The selected one is loaded at the end of the biblatex package.

Here we produce the EMISAJ bibliography style by the not so very surprising name emisa.bbx. This file will be generated on installation from the following code lines between the <\*bbx> and </bbx> meta-tags.

```
1280 (*bbx)
```

We start by declaring the file name and date.

```
1281 \ProvidesFile{emisa.bbx}[2016/07/18 2.1.1 EMISA bibliography style]
```

The EMISAJ bibliography style is built on top of the standard style authoryear.bbx being loaded here

. . .

```
1282 \RequireBibliographyStyle{authoryear}
```

... to be expanded and modified in the following.

\bibitemlabel

The macro \bibitemlabel represents the formatting of the \bibitem labels.

```
1283 \newcommand*{\bibitemlabel}[1]{%
1284 \normalfont #1}
```

thebibliography

The implementation of the thebibliography environment typically makes use of the generic list environment. First a few length registers needed internally are adjusted. Note the infix notation used in some declarations facilitated by the calc package.

```
1285 \defbibenvironment{bibliography}
1286 {\list{}%
1287     {\setlength{\labelwidth}{\z@}%
1288     \setlength{\leftmargin}{\z@}%
1289     \setlength{\itemindent}{-\leftmargin}%
1290     \setlength{\itemsep}{.5\baselineskip\@plus.2\baselineskip\@minus.2\baselineskip}%
1291     \setlength{\parsep}{\bibparsep}%
```

In the bibliography listings we want the name lists not to be abbreviated. Well, a name list containing more than 999 names *will* be abbreviated nevertheless; but then, having a name list *this* long might be a problem in itsself.

```
1292 }%
1293 \let\makelabel\bibitemlabel
```

Adjusting short lines in small paragraphs can be rather hard, so some tolerance is added here.

```
1294 \tolerance 9999
1295 \emergencystretch 3em
1296 \hfuzz .5\p@
1297 \vfuzz\hfuzz
```

This is setting the normal (non-infinite) value of \clubpenalty for the whole of this environment, so we must reset its stored value also.

```
1298 \clubpenalty 4000
1299 \@clubpenalty\clubpenalty
1300 \widowpenalty 4000
```

This causes a «.» (period) not to produce an end-of-sentence space.

```
1301 \sfcode`\.\@m
```

Inside the bibliography we want no «and» in author lists.

```
1302 \renewcommand*{\finalnamedelim}{\addcomma\space}%
1303 }%
1304 {%
```

An empty thebibliography environment will cause a warning.

```
1305 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1306 \endlist}
```

```
1307 {\item}
```

Formatting commands: punctuation and spacing, blocks and units The following code is taken from biblatex.def and modified at several places (see comments). These are some basic and/or generic macros and might be superseded afterwards by definitions taken from standard.cbx or authoryear.cbx.

The major segments of a bibliography entry are ,Äòblocks' and ,Äòunits'. A block is the larger segment of the two, a unit is shorter or at most equal in length. For example, the values of fields such as title or note usually form a unit which is separated from subsequent data by a period or a comma. A block may comprise several fields which are treated as separate units, for example publisher, location, and year. An entry is segmented by inserting \newblock and \newunit commands at suitable places and \finentry at the very end. The actual printed output of these is defined in the corresponding \...punct macros.

The following commands add punctuation marks but automatically prevent doubling and remove preceding whitespace. Note that the behavior described below is the package default which is adjustable using \DeclarePunctuationPairs. Just the commands used in EMISAJ are discussed here.

**\addperiod** adds a period unless it is preceded by an abbreviation dot or any other punctuation mark. This command may also be used to turn a previously inserted abbreviation dot into a period, for example at the end of a sentence.

**\addcomma** adds a comma unless it is preceded by another comma, a semicolon, a colon, or a period.

**\addcolon** adds a colon unless it is preceded by a comma, a semicolon, another colon, or a period.

**\isdot** turns a previously inserted literal period into an abbreviation dot. In contrast to \adddot, nothing is inserted if this command is not preceded by a period.

The following macros insert space.

**\addspace** adds a breakable interword space.

\addhighpenspace adds a space penalized by the value of the highnamepenalty counter which holds a penalty affecting line-breaking in names; please refer to the biblatex manual for explanation. The counter is initialized to \hyphenpenalty at load-time. Higher values lower the number of linebreaks and vice versa. The traditional BibTeXbehavior (no linebreaks at highnamepenalty breakpoints) is reached by setting it to ,Äòinfinite' (≥ 10 000).

**\addlowpenspace** adds a space penalized by the value of the lownamepenalty counter, similar to highnamepenalty. The counter is initialized to 0.5 \hyphenpenalty at load-time.

\newunitpunct

The separator inserted between "'units" in the sense explained above. Here, the definition is just a space.

1308 \renewcommand\*{\newunitpunct}{\space}

\finentrypunct

This inserts the punctuation printed at the very end of every bibliography entry. Here it is simply nothing.

1309 \renewcommand\*{\finentrypunct}{\relax}

**\bibsetup** is a generic hook controlling the (low-level) layout of the bibliography and the list of shorthands. The default definition should work fine in most cases.

```
1310 \renewcommand*{\bibsetup}{%
```

1311 \interlinepenalty=5000\relax

```
1312 \widowpenalty=10000\relax
1313 \clubpenalty=10000\relax
1314 \biburlsetup
1315 \flushbottom
1316 \frenchspacing
1317 \sloppy}
```

The penalties above are not specific to biblatex but low-level TeX features.

- > \clubpenalty is an additional penalty assigned to page breaks after the first line of a paragraph;
- ▷ \widowpenalty is an additional penalty assigned to page breaks before the last line of a paragraph.

Note that the value 10000 means «infinite» as far as TeX is concerned. Setting some penalty to 10000 will unconditionally suppress the respective breakpoint.

The net effect of the above settings is as follows. Breaking a bibliography entry across pages is discouraged, but not suppressed altogether. If a bibliography entry spans less than four lines, TeX will always keep it on one page. If it spans four or more lines, it may be broken across pages, provided that there are at least two lines on the page before and after the break.

These penalties should normally be used in conjunction with \raggedbottom. If you don't like that and remove \raggedbottom from the definition of \bibsetup, make sure to provide some stretchability between bibliography entries by setting \bibitemsep to a suitable value, e.g.:

\setlength{\bibitemsep}{0.5\baselineskip plus 0.5\baselineskip}

\biburlsetup This is some local setup in order to use \url properly.

To ease the job of folding long URLs into narrow columns the following code allows linebreaks after numbers as a last resort. The macro also allows breaks after hyphens and adjusts \Urlmuskip to add some stretchability to URL strings.

```
1318 \renewcommand*{\biburlsetup}{%
      \Urlmuskip=0mu plus 2mu\relax
1319
1320
      \mathchardef\UrlBreakPenalty=200\relax
      \mathchardef\UrlBigBreakPenalty=100\relax
1321
      \mathchardef\UrlEmergencyPenalty=9000\relax
1322
1323
      \appto\UrlSpecials{%
        \do\0{\mathchar`\0\penalty\UrlEmergencyPenalty}%
1324
        \do\1{\mathchar`\1\penalty\UrlEmergencyPenalty}%
1325
        \do\2{\mathchar`\2\penalty\UrlEmergencyPenalty}%
1326
        \do\3{\mathchar`\3\penalty\UrlEmergencyPenalty}%
1327
1328
        \do\4{\mathchar`\4\penalty\UrlEmergencyPenalty}%
        \do\5{\mathchar`\5\penalty\UrlEmergencyPenalty}%
1329
        \do\6{\mathchar`\6\penalty\UrlEmergencyPenalty}%
1331
        \do\7{\mathchar`\7\penalty\UrlEmergencyPenalty}%
        \do\8{\mathchar`\8\penalty\UrlEmergencyPenalty}%
1332
        \do\9{\mathchar`\9\penalty\UrlEmergencyPenalty}}%
1333
      \def\UrlBreaks{%
1334
```

For further details please see the documentation of the url package as well as the comments inside url.sty.

**Miscellaneous field formatting directives** This subsection introduces biblatex commands and utility macros used to define the formatting directives required by the data commands.

The following list shows a few frequently used ones; those more rarely used are described below.

**\DeclareFieldFormat**[ $\langle entry\ type \rangle$ ]{ $\langle format \rangle$ }{ $\langle code \rangle$ } defines the formatting code given in  $\langle code \rangle$  to be executed by \printfield on processing the field  $\langle format \rangle$ . The value of the field will be passed to  $\langle code \rangle$  as its first and only argument. If an  $\langle entry\ type \rangle$  is specified, the format is specific to that type; otherwise it applies to all entry types defined. The name of the field currently being processed is available in \currentfield.

\DeclareFieldAlias[\langle entry type \rangle] \{\langle alias \rangle} \[ \langle format entry type \rangle] \{\langle format \rangle \} \] declares \( \langle alias \rangle \) to be an alias of the field format \( \langle format \rangle \). If an \( \langle entry type \rangle \) is specified, the alias is specific to that type. The \( \langle format entry type \rangle \) is the entry type of the backend format. This is only required when declaring an alias of a type specific formatting directive.

**\bibstring**[ $\langle wrapper \rangle$ ]{ $\langle key \rangle$ } prints the bibliography string identified by  $\langle key \rangle$ . The string will be capitalized as required. Depending on the abbreviate package option, \bibstring prints the short or the long version of the string. If bibliography strings are nested, i. e., if \bibstring is used in another string, it will behave like \bibxstring. If the  $\langle wrapper \rangle$  argument is given, the string is passed to the  $\langle wrapper \rangle$  for formatting. This is intended for font commands such as \emph.

**\bibxstring**[ $\langle wrapper \rangle$ ]{ $\langle key \rangle$ } Similar to \bibstring but the string is always capitalized. \bibxstring{ $\langle key \rangle$ } is a simplified but expandable version of \bibstring. Note that this variant

does not capitalize automatically, nor does it hook into the punctuation tracker. It is intended for special cases in which strings are nested or an expanded bibliography string is required in a test.

The citetitle format is used to output the title field in citations.

```
1340 \DeclareFieldFormat{citetitle}{#1}

1341 \DeclareFieldFormat[article]{citetitle}{#1\isdot}

1342 \DeclareFieldFormat[inbook]{citetitle}{#1\isdot}

1343 \DeclareFieldFormat[incollection]{citetitle}{#1\isdot}

1344 \DeclareFieldFormat[inproceedings]{citetitle}{#1\isdot}

1345 \DeclareFieldFormat[patent]{citetitle}{#1\isdot}

1346 \DeclareFieldFormat[thesis]{citetitle}{#1\isdot}

1347 \DeclareFieldFormat[unpublished]{citetitle}{#1\isdot}

The following field formats are used for output in bibliographies.

1348 \DeclareFieldFormat{booktitle}{#1\isdot}
```

1349 \DeclareFieldFormat{journaltitle}{#1}
1350 \DeclareFieldFormat{issuetitle}{#1}

```
1351 \DeclareFieldFormat{maintitle}{#1}
1352 \DeclareFieldFormat{title}{#1}
1353 \DeclareFieldFormat[article]{title}{#1\isdot}
1354 \DeclareFieldFormat[inbook]{title}{#1\isdot}
1355 \DeclareFieldFormat[incollection]{title}{#1\isdot}
1356 \DeclareFieldFormat[inproceedings]{title}{#1\isdot}
    \DeclareFieldFormat[patent]{title}{#1\isdot}
1358 \DeclareFieldFormat[thesis]{title}{#1\isdot}
    \DeclareFieldFormat[unpublished]{title}{#1\isdot}
1360 \DeclareFieldFormat{url}{\url{#1}}
1361 \DeclareFieldFormat{urldate}{\bibstring{urlseen}\addcolon\space#1}
1362 \DeclareFieldAlias[misc]{note}{urldate}
1363 \DeclareFieldAlias[report]{note}{urldate}
1364 \DeclareFieldAlias[thesis]{note}{urldate}
1365 \DeclareFieldFormat{version}{\bibcpstring{version}~#1}
1366 \DeclareFieldFormat{volume}{\bibcpstring{volume}~#1}
1367 \DeclareFieldFormat{volumes}{#1~\bibcpstring{volumes}}
```

**Formatting names and name lists** The following code morsels are taken from biblatex.def and modified.

The section employs special biblatex commands to (re)define or use macros in bibliography and citation styles.

\newbibmacro{\(\lambda mame\)}[\(\lambda ptional\)]{\(\lambda efinition\)\} defines a macro to be executed via \usebibmacro later. The syntax and argument handling of this command is very similar to \newcommand except that

- > \(\lambda name \rangle \) may contain characters such as numbers and punctuation marks but no backslash, and
- ▶ \newbibmacro issues just a warning message if the macro is already defined, then falls back to \renewbibmacro.

 $\ensuremath{\mbox{\constraint}}[\langle \ensuremath{\mbox{\constraint}}][\langle \ensuremath{\mbox{\constraint}}]\{\langle \ensuremath{\mbox{\constraint}}]\}$ is similar to \newbibmacro but redefines <math>\langle \ensuremath{\mbox{\constraint}}\rangle$ . If the macro is undefined, \renewbibmacro issues a warning message and falls back to \newbibmacro.

**\usebibmacro**{ $\langle name \rangle$ } executes the biblatex macro  $\langle name \rangle$ , as defined with \newbibmacro. If the macro takes any arguments, they are simply appended after  $\langle name \rangle$ . \usebibmacro is robust.

This declares the output format of name lists to be used by \printnames.

Please note: We have to check the biblatex version, since there has been an incompatible change for version 3.3 from 2016/03/03

```
1368 \@ifpackagelater{biblatex}{2016/03/03}%
```

Now for the latest versions

```
1374
              {\namepartgiveni}%
1375
              {\namepartprefix}%
              {\namepartsuffix}%
1376
           \usebibmacro{name:andothers}}%
1377
1378 }%
```

and now for the older versions All the formatting directives for name lists get the following «arguments»:

```
#1 = last name
#2 = last name (initials)
#3 = first name
#4 = first name (initials)
#5 = name prefix, a.k.a. 'von part'
#6 = name prefix (initials)
#7 = name affix, a.k.a. 'junior part'
#8 = name affix (initials)
1379 {%
1380
       \DeclareNameFormat{emisa:names}{%
       \usebibmacro{name:last-firstinit}{#1}{#4}{#5}{#7}%
1381
       \usebibmacro{name:andothers}}%
1382
1383 }%
```

This bibmacro formats the names of authors, editors or translators.

me:last-firstinit bibmacro Again we check for the biblatex version. This could be neglected for this macro. However, it is clearer and maybe better for future development.

```
Now for the latest versions
1385 {%
      \newbibmacro*{name:family-giveninit}[4]{%
1386
         \usebibmacro{name:delim}{#2#3#1}%
1387
```

\usebibmacro{name:hook}{#2#3#1}%

1384 \@ifpackagelater{biblatex}{2016/03/03}%

1388

```
Formatting: name prefix ('von part'), ...
         \ifdefvoid{#3}{}{%
1389
            \mkbibnameprefix{#3}%\isdot
1390
1391
            \ifprefchar% replaces \ifpunctmark{'}%
1392
            {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
1393
... last name ...
          \mkbibnamefamily{#1}\addhighpenspace%
1394
... name affix ('junior part'), ...
        \ifdefvoid{#4}{}{\addlowpenspace\mkbibnameaffix{#4}\addlowpenspace}%
1395
```

```
... and first name (initials).
                     \ifdefvoid{#2}{}{\mkbibnamegiven{#2}\isdot}%
              1396
                     }%
              1397
              1398 }%
             and now for the older versions
              1399 {%
                    \newbibmacro*{name:last-firstinit}[4]{%
              1400
                    \usebibmacro{name:delim}{#2#3#1}%
              1401
                    \usebibmacro{name:hook}{#2#3#1}%
              1402
             Formatting: name prefix ('von part'), ...
                    \ifblank{#3}{}{%
              1403
              1404
                      \mkbibnameprefix{#3}%\isdot
                      \ifpunctmark{'}%
              1405
              1406
              1407
                         {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
             ... last name ...
                    \mkbibnamelast{#1}\addhighpenspace%
              1408
             ... name affix ('junior part'), ...
                    ... and first name (initials).
                    \ifblank{#2}{}{\mkbibnamefirst{#2}\isdot}%
              1411 }%
              1412 }%
             This outputs the «in:» tag, as in bibliography entries for proceedings, collections, edited books and so on.
in: bibmacro
              1413 \renewbibmacro*{in:}{%
                    \printtext{%
              1414
                      \bibcpstring{in}%
              1415
                      \intitlepunct}}
              1416
```

**Generic bibliography macros** In this subsection the generic bibmacros outputting the typical name fields in bibliographies are customised.

## author bibmacro

```
1417 \renewbibmacro*{author}{%
1418 \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
1419 {\printnames{author}%
1420 \iffieldundef{authortype}
1421 {}
1422 {\setunit{\addspace}%
1423 \usebibmacro{authorstrg}}}
1424 {}}
```

```
editor bibmacro
                           1425 \renewbibmacro*{editor}{%
                                  \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                            1426
                                    {\printnames{editor}%
                            1427
                                     \setunit{\addspace}%
                            1428
                                     \usebibmacro{editorstrg}%
                            1429
                                     \clearname{editor}}
                            1430
                            1431
                                    {}}
   editor+others bibmacro
                           1432 \renewbibmacro*{editor+others}{%
                                  \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                           1433
                                    {\printnames[emisa:names]{editor}%
                           1434
                                     \setunit{\addspace}%
                           1435
                                     \usebibmacro{editor+othersstrg}%
                            1436
                                    \clearname{editor}}
                            1437
                            1438
                                    {}}
      translator bibmacro
                            1439 \renewbibmacro*{translator}{%
                                  \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                            1440
                            1441
                                    {\printnames{translator}%
                                     \setunit{\addspace}%
                            1442
                            1443
                                     \usebibmacro{translatorstrg}%
                            1444
                                     \clearname{translator}}
                            1445
                                    {}}
translator+others bibmacro
                           1446 \renewbibmacro*{translator+others}{%
                                  \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                            1447
                                    {\printnames{translator}%
                           1448
                                     \setunit{\addspace}%
                            1449
                                     \usebibmacro{translator+othersstrg}%
                            1450
                                     \clearname{translator}}
                            1451
                            1452
                                    {}}
editor+othersstrg bibmacro
                           1453 \renewbibmacro*{editor+othersstrg}{%
                                  \iffieldundef{editortype}
                            1454
                                    {\ifthenelse{\value{editor}>1\OR\ifandothers{editor}}}
                            1455
                                       {\def\abx@tempa{editors}}
                            1456
                            1457
                                       {\def\abx@tempa{editor}}}
                                    1458
                                       {\edef\abx@tempa{\thefield{editortype}s}}
                           1459
                                       {\edef\abx@tempa{\thefield{editortype}}}}%
                            1460
                                  \let\abx@tempb=\empty
                           1461
                                  \ifnamesequal{editor}{translator}
                            1462
                                    {\appto\abx@tempa{tr}%
```

1463

```
1464
                                      \appto\abx@tempb{\clearname{translator}}}
                             1465
                                     {}%
                                   \ifnamesequal{editor}{commentator}
                             1466
                                     {\appto\abx@tempa{co}%
                             1467
                                      \appto\abx@tempb{\clearname{commentator}}}
                             1468
                                     {\ifnamesequal{editor}{annotator}
                             1469
                                         {\appto\abx@tempa{an}%
                             1470
                             1471 \appto\abx@tempb{\clearname{annotator}}}
                                   \ifnamesequal{editor}{introduction}
                             1473
                                     {\appto\abx@tempa{in}%
                             1474
                                      \appto\abx@tempb{\clearname{introduction}}}
                             1475
                                     {\ifnamesequal{editor}{foreword}
                             1476
                                         {\appto\abx@tempa{fo}%
                             1477
                                 \appto\abx@tempb{\clearname{foreword}}}
                             1478
                             1479
                                         {\ifnamesequal{editor}{afterword}
                                            {\appto\abx@tempa{af}%
                             1480
                                             \appto\abx@tempb{\clearname{afterword}}}
                             1481
                             1482
                                            {}}}%
                                   \ifbibxstring{\abx@tempa}
                             1483
                                     {\bibstring[\mkbibparens]{\abx@tempa}%
                             1484
                                      \abx@tempb}
                             1485
                                     {\usebibmacro{editorstrg}}}%
                             1486
                             1487 \newbibmacro*{emisa:url+urldate}{%
                                   \iffieldundef{url}
                             1488
                                     {\printfield{howpublished}}
                             1489
                             1490
                                     {\printfield{url}}
                             1491
                                   \setunit*{\addperiod\space}\newblock
                                   \iffieldundef{urlyear}
                             1492
                             1493
                                     {\printfield{note}}
                                     {\printtext[urldate]{\printurldate}}}
                             1494
isa:url+type+version+urldate
                             1495 \newbibmacro*{emisa:url+type+version+urldate}{%
                                   \iffieldundef{url}%
                             1496
                                     {\printfield{url}}
                             1497
                                     {\printfield{howpublished}}%
                             1498
                                   \setunit*{\addcomma\space}\newblock
                             1499
                                   \printfield{type}%
                             1500
                             1501
                                   \setunit*{\addcomma\space}\newblock
                                   \printfield{version}%
                             1502
                                   \setunit*{\addcomma\space}\newblock
                             1503
                             1504
                                   \iffieldundef{urlyear}
                                     {\printfield{note}}
                             1505
                                     {\printtext[urldate]{\printurldate}}}
                             1506
```

emisa:url+urldate bibmacro

bibmacro

This is the end of the code taken (and modified) from biblatex.def.

**Code from standard.bbx** The following code is taken from standard.bbx and modified at several places (see comments). This sections's definitions supersede those taken from standard.cbx and might in turn be superseded by the following code from authoryear.bbx.

## finentry bibmacro

```
1507 \renewbibmacro*{finentry}{}%
```

#### article bibdriver

- 1508 \DeclareBibliographyDriver{article}{%
- 1509 \usebibmacro{bibindex}%
- 1510 \usebibmacro{begentry}%
- 1511 \usebibmacro{author/translator+others}%
- 1512 \setunit{\labelnamepunct}\newblock
- 1513 \usebibmacro{title}%
- 1514 \newunit
- 1515 \printlist{language}%
- 1516 \newunit\newblock
- 1517 \usebibmacro{bytranslator+others}%
- 1518 \newunit\newblock
- 1519 \printfield{version}%
- 1520 \setunit{\addperiod\space}%
- 1521 \usebibmacro{in:}%
- 1522 \usebibmacro{journal+issuetitle}%
- 1523 \newunit\newblock
- 1524 \usebibmacro{editor+others}%
- 1525 \newunit\newblock
- 1526 \usebibmacro{note+pages}%
- 1527 \newunit\newblock
- 1528 \iftoggle{bbx:isbn}
- 1529 {\printfield{issn}}
- 1530 {}%
- 1531 \newunit\newblock
- 1532 \usebibmacro{doi+eprint+url}%
- 1533 \newunit\newblock
- 1534 \usebibmacro{addendum+pubstate}%
- 1535 \newunit\newblock
- 1536 \usebibmacro{pageref}%
- 1537 \usebibmacro{finentry}}

### book bibdriver

- 1538 \DeclareBibliographyDriver{book}{%
- 1539 \usebibmacro{bibindex}%
- 1540 \usebibmacro{begentry}%
- 1541 \usebibmacro{author/editor+others/translator+others}%
- 1542 \setunit{\labelnamepunct}\newblock
- 1543 \usebibmacro{maintitle+title}%
- 1544 \newunit
- 1545 \printlist{language}%

- 1546 \newunit\newblock
- 1547 \usebibmacro{editor+others}%
- 1548 \setunit{\addcomma\space}%
- 1549 \newblock
- 1550 \printfield{edition}%
- 1551 \setunit{\addperiod\space}%
- 1552 \newblock
- 1553 \usebibmacro{series+number}%
- 1554 \newunit
- 1555 \newblock
- 1556 \iffieldundef{maintitle}
- 1557 {\printfield{volume}%
- 1558 \printfield{part}}
- 1559 {}%
- 1560 \newunit
- 1561 \printfield{volumes}%
- 1562 \setunit{\addperiod\space}%
- 1563 \newblock
- 1564 \printfield{note}%
- 1565 \setunit{\addperiod\space}%
- 1566 \newblock
- 1567 \usebibmacro{publisher+location+date}%
- 1568 \newunit\newblock
- 1569 \usebibmacro{chapter+pages}%
- 1570 \newunit
- 1571 \printfield{pagetotal}%
- 1572 \newunit\newblock
- 1573 \iftoggle{bbx:isbn}
- 1574 {\printfield{isbn}}
- 1575 {}%
- 1576 \newunit\newblock
- 1577 \usebibmacro{doi+eprint+url}%
- 1578 \newunit\newblock
- 1579 \usebibmacro{addendum+pubstate}%
- 1580 \newunit\newblock
- 1581 \usebibmacro{pageref}%
- 1582 \usebibmacro{finentry}}

## booklet bibdriver

- 1583 \DeclareBibliographyDriver{booklet}{%
- 1584 \usebibmacro{bibindex}%
- 1585 \usebibmacro{begentry}%
- 1586 \usebibmacro{author/editor+others/translator+others}%
- 1587 \setunit{\labelnamepunct}\newblock
- 1588 \usebibmacro{title}%
- 1589 \newunit
- 1590 \printlist{language}%
- 1591 \newunit\newblock
- 1592 \usebibmacro{editor+others}%

- 1593 \newunit\newblock
- 1594 \printfield{howpublished}%
- 1595 \newunit\newblock
- 1596 \printfield{type}%
- 1597 \newunit\newblock
- 1598 \printfield{note}%
- 1599 \newunit\newblock
- 1600 \usebibmacro{location+date}%
- 1601 \newunit\newblock
- 1602 \usebibmacro{chapter+pages}%
- 1603 \newunit
- 1604 \printfield{pagetotal}%
- 1605 \newunit\newblock
- 1606 \usebibmacro{doi+eprint+url}%
- 1607 \newunit\newblock
- 1608 \usebibmacro{addendum+pubstate}%
- 1609 \newunit\newblock
- 1610 \usebibmacro{pageref}%
- 1611 \usebibmacro{finentry}}

#### collection bibdriver

- 1612 \DeclareBibliographyDriver{collection}{%
- 1613 \usebibmacro{bibindex}%
- 1614 \usebibmacro{begentry}%
- 1615 \usebibmacro{editor+others}%
- 1616 \setunit{\labelnamepunct}\newblock
- 1617 \usebibmacro{maintitle+title}%
- 1618 \newunit
- 1619 \printlist{language}%
- 1620 \newunit\newblock
- 1621 \usebibmacro{editor+others}%
- 1622 \setunit{\addcomma\space}%
- 1623 \newblock
- 1624 \printfield{edition}%
- 1625 \setunit{\addperiod\space}%
- 1626 \newblock
- 1627 \usebibmacro{series+number}%
- 1628 \newunit
- 1629 \newblock
- 1630 \iffieldundef{maintitle}
- 1631 {\printfield{volume}%
- 1632 \printfield{part}}
- 1633 {}%
- 1634 \newunit
- 1635 \printfield{volumes}%
- 1636 \setunit{\addperiod\space}%
- 1637 \newblock
- 1638 \printfield{note}%
- 1639 \setunit{\addperiod\space}%

```
\newblock
1640
      \usebibmacro{publisher+location+date}%
1641
      \newunit\newblock
1642
      \usebibmacro{chapter+pages}%
1643
      \newunit
1644
      \printfield{pagetotal}%
1645
1646
      \newunit\newblock
      \iftoggle{bbx:isbn}
1647
         {\printfield{isbn}}
1648
1649
         {}%
      \newunit\newblock
1650
      \usebibmacro{doi+eprint+url}%
1651
1652
      \newunit\newblock
      \usebibmacro{addendum+pubstate}%
1653
1654
      \newunit\newblock
1655
      \usebibmacro{pageref}%
      \usebibmacro{finentry}}
1656
```

#### inbook bibdriver

1657 \DeclareBibliographyDriver{inbook}{% \usebibmacro{bibindex}% 1658 1659 \usebibmacro{begentry}% \usebibmacro{author/translator+others}% 1660 \setunit{\labelnamepunct}\newblock 1661 1662 \usebibmacro{title}% \newunit 1663 \printlist{language}% 1664 1665 \newunit\newblock \usebibmacro{in:}% 1666 \usebibmacro{bybookauthor}% 1667 \newunit\newblock 1668 \usebibmacro{maintitle+booktitle}% 1669 \newunit\newblock 1670 \usebibmacro{editor+others}% 1671 \setunit{\addcomma\space}% 1672 1673 \newblock \printfield{edition}% 1674 \newunit 1675 \iffieldundef{maintitle} 1676 {\printfield{volume}% 1677 \printfield{part}} 1678 {}% 1679 \newunit 1680 \printfield{volumes}% 1681 1682 \newunit\newblock \usebibmacro{series+number}% 1683 \newunit\newblock 1684 1685 \printfield{note}%

\newunit\newblock

1686

```
\usebibmacro{publisher+location+date}%
1687
       \newunit\newblock
1688
       \usebibmacro{chapter+pages}%
1689
       \newunit\newblock
1690
       \iftoggle{bbx:isbn}
1691
         {\printfield{isbn}}
1692
1693
       \newunit\newblock
1694
       \usebibmacro{doi+eprint+url}%
1695
       \newunit\newblock
1696
       \usebibmacro{addendum+pubstate}%
1697
       \newunit\newblock
1698
1699
       \usebibmacro{pageref}%
       \usebibmacro{finentry}}
1700
1701 \DeclareBibliographyDriver{incollection}{%
1702
       \usebibmacro{bibindex}%
       \usebibmacro{begentry}%
       \usebibmacro{author/translator+others}%
1704
       \setunit{\labelnamepunct}\newblock
1705
       \usebibmacro{title}%
1706
       \setunit{\addcomma\space}%
1707
       \printlist{language}%
1708
Period after title, if any
       \setunit{\addperiod\space}%
1709
       \usebibmacro{in:}%
1710
1711
       \usebibmacro{editor+others}%
       \setunit{\addspace}%
1712
1713
       \newblock
       \usebibmacro{byauthor}%
1715
       \newblock
       \usebibmacro{maintitle+booktitle}%
1716
Colon after maintitle, if any
1717
       \newblock
1718
       \printfield{edition}%
1719
       \setunit{\addperiod\space}%
       \newblock
1720
       \usebibmacro{series+number}%
1721
       \newunit
1722
       \newblock
1723
       \iffieldundef{maintitle}
1724
         {\printfield{volume}%
1725
1726
          \printfield{part}}
1727
         {}%
```

incollection bibdriver

1728

1729

\newunit

\printfield{volumes}%

- 1730 \setunit{\addperiod\space}%
- 1731 \newblock
- 1732 \printfield{note}%
- 1733 \setunit{\addperiod\space}%
- 1734 \newblock
- 1735 \usebibmacro{publisher+location+date}%
- 1736 \setunit\*{\addcomma\space}%
- 1737 \newblock
- 1738 \usebibmacro{chapter+pages}%
- 1739 \newunit\newblock
- 1740 \iftoggle{bbx:isbn}
- 1741 {\printfield{isbn}}
- 1742 {}%
- 1743 \newunit\newblock
- 1744 \usebibmacro{doi+eprint+url}%
- 1745 \newunit\newblock
- 1746 \usebibmacro{addendum+pubstate}%
- 1747 \newunit\newblock
- 1748 \usebibmacro{pageref}%
- 1749 \usebibmacro{finentry}}

### inproceedings bibdriver

- 1750 \DeclareBibliographyDriver{inproceedings}{%
- 1751 \usebibmacro{bibindex}%
- 1752 \usebibmacro{begentry}%
- 1753 \usebibmacro{author/translator+others}%
- 1754 \setunit{\labelnamepunct}%
- 1755 \newblock
- 1756 \usebibmacro{title}%
- 1757 \setunit{\addcomma\space}%
- 1758 \printlist{language}%
- 1759 \newblock
- 1760 \usebibmacro{byauthor}%

## Period after title, if any

- 1761 \setunit{\addperiod\space}%
- 1762 \usebibmacro{in:}%
- 1763 \usebibmacro{editor+others}%
- 1764 \setunit{\addspace}%
- 1765 \newblock
- 1766 \usebibmacro{byauthor}%
- 1767 \newblock
- 1768 \usebibmacro{maintitle+booktitle}%

## Colon after maintitle, if any

- 1769 \newblock
- 1770 \usebibmacro{event+venue+date}%
- 1771 \setunit{\addperiod\space}%
- 1772 \newblock

```
1773
      \usebibmacro{series+number}%
1774
      \newunit
      \newblock
1775
      \iffieldundef{maintitle}
1776
        {\printfield{volume}%
1777
         \printfield{part}}
1778
1779
        {}%
      \newunit
1780
      \printfield{volumes}%
1781
      \setunit{\addperiod\space}%
1782
      \newblock
1783
      \printfield{note}%
1784
1785
      \setunit{\addperiod\space}%
      \newblock
1786
1787
      \printlist{organization}%
1788
      \setunit{\addperiod\space}%
1789
      \usebibmacro{publisher+location+date}%
1790
1791
      \setunit{\addcomma\space}%
      \newblock
1792
      \usebibmacro{chapter+pages}%
1793
      \newunit\newblock
1794
      \iftoggle{bbx:isbn}
1795
        {\printfield{isbn}}
1796
1797
1798
      \newunit\newblock
      \usebibmacro{doi+eprint+url}%
1799
1800
      \newunit\newblock
      \usebibmacro{addendum+pubstate}%
1801
      \newunit\newblock
1802
      \usebibmacro{pageref}%
1803
      \usebibmacro{finentry}}
1804
1805 \DeclareBibliographyDriver{manual}{%
      \usebibmacro{bibindex}%
1806
      \usebibmacro{begentry}%
1808
      \usebibmacro{author/editor}%
      \setunit{\labelnamepunct}\newblock
      \usebibmacro{title}%
1810
      \newunit
1811
      \printlist{language}%
1812
      \newunit\newblock
1813
      \usebibmacro{byeditor}%
1814
```

\setunit{\addcomma\space}%

\usebibmacro{series+number}%

\printfield{edition}%
\newunit\newblock

\newblock

1815

1817

1818

1819

manual bibdriver

69

```
1820 \newunit\newblock
1821 \printfield{type}%
1822 \newunit
```

1823 \printfield{version}%

1824 \newunit

1825 \printfield{note}%
1826 \newunit\newblock

1827 \printlist{organization}%

1828 \newunit

1829 \usebibmacro{publisher+location+date}%

1830 \newunit\newblock

1831 \usebibmacro{chapter+pages}%

1832 \newunit

1833 \printfield{pagetotal}%

1834 \newunit\newblock

1835 \iftoggle{bbx:isbn}

1836 {\printfield{isbn}}

1837 {}%

1838 \newunit\newblock

1839 \usebibmacro{doi+eprint+url}%

1840 \newunit\newblock

1841 \usebibmacro{addendum+pubstate}%

1842 \newunit\newblock

1843 \usebibmacro{pageref}%

1844 \usebibmacro{finentry}}

#### misc bibdriver

```
1845 \DeclareBibliographyDriver{misc}{%
```

1846 \usebibmacro{bibindex}%

1847 \usebibmacro{begentry}%

1848 \usebibmacro{author/editor+others/translator+others}%

1849 \setunit{\labelnamepunct}\newblock

1850 \usebibmacro{title}%

1851 \newunit

1852 \printlist{language}%

## Period after title, if any

1853 \setunit{\addperiod\space}%

1854 \usebibmacro{emisa:url+urldate}%

1855 \usebibmacro{finentry}}

## online bibdriver

1856 \DeclareBibliographyDriver{online}{%

1857 \usebibmacro{bibindex}%

1858 \usebibmacro{begentry}%

1859 \usebibmacro{author/editor+others/translator+others}%

1860 \setunit{\labelnamepunct}\newblock

1861 \usebibmacro{title}%

1862 \newunit

```
\printlist{language}%
                  1863
                         \newunit\newblock
                  1864
                         \usebibmacro{editor+others}%
                  1865
                         \newunit\newblock
                  1866
                         \printfield{version}%
                  1867
                         \newunit
                  1868
                  1869
                         \printfield{note}%
                         \newunit\newblock
                  1870
                         \printlist{organization}%
                  1871
                         \newunit\newblock
                  1872
                         \usebibmacro{date}%
                  1873
                         \newunit\newblock
                  1874
                  1875
                         \iftoggle{bbx:eprint}
                           {\usebibmacro{eprint}}
                  1876
                  1877
                           {}%
                  1878
                         \newunit\newblock
                  1879
                         \usebibmacro{url+urldate}%
                  1880
                         \newunit\newblock
                  1881
                         \usebibmacro{addendum+pubstate}%
                         \newunit\newblock
                  1882
                         \usebibmacro{pageref}%
                  1883
                  1884
                         \usebibmacro{finentry}}
patent bibdriver
                  1885 \DeclareBibliographyDriver{patent}{%
                         \usebibmacro{bibindex}%
                  1886
                  1887
                         \usebibmacro{begentry}%
                  1888
                         \usebibmacro{author}%
                         \setunit{\labelnamepunct}\newblock
                  1889
                         \usebibmacro{title}%
                  1890
                         \newunit
                  1891
                         \printlist{language}%
                  1892
                         \newunit\newblock
                  1893
                         \printfield{type}%
                  1894
                         \setunit*{\addspace}%
                  1895
                  1896
                         \printfield{number}%
                         \iflistundef{location}
                  1897
                  1898
                           {\setunit*{\addspace}%
                  1899
                            \printtext[parens]{%
                  1900
                              \printlist[][-\value{listtotal}]{location}}}%
                  1901
                         \newunit\newblock
                  1902
                         \usebibmacro{byholder}%
                  1903
                         \newunit\newblock
                  1904
                  1905
                         \printfield{note}%
                         \newunit\newblock
                  1906
                         \usebibmacro{date}%
                  1907
                         \newunit\newblock
                  1908
                         \iftoggle{bbx:url}
                  1909
```

```
{\usebibmacro{url+urldate}}
                       1910
                       1911
                                {}%
                              \newunit\newblock
                       1912
                              \usebibmacro{addendum+pubstate}%
                       1913
                              \newunit\newblock
                       1914
                              \usebibmacro{pageref}%
                       1915
                       1916
                              \usebibmacro{finentry}}
 periodical bibdriver
                       1917 \DeclareBibliographyDriver{periodical}{%
                       1918
                              \usebibmacro{bibindex}%
                              \usebibmacro{begentry}%
                       1919
                              \usebibmacro{editor}%
                       1920
                              \setunit{\labelnamepunct}\newblock
                       1921
                              \usebibmacro{title+issuetitle}%
                       1922
                       1923
                              \newunit
                       1924
                              \printlist{language}%
                              \newunit\newblock
                       1925
                       1926
                              \usebibmacro{byeditor}%
                              \newunit\newblock
                       1927
                              \printfield{note}%
                       1928
                              \newunit\newblock
                       1929
                              \iftoggle{bbx:isbn}
                       1930
                                {\printfield{issn}}
                       1931
                       1932
                                {}%
                              \newunit\newblock
                       1933
                              \usebibmacro{doi+eprint+url}%
                       1934
                       1935
                              \newunit\newblock
                              \usebibmacro{addendum+pubstate}%
                       1936
                              \newunit\newblock
                       1937
                              \usebibmacro{pageref}%
                       1938
                              \usebibmacro{finentry}}
                       1939
proceedings bibdriver
                       1940 \DeclareBibliographyDriver{proceedings}{%
                       1941
                              \usebibmacro{bibindex}%
                              \usebibmacro{begentry}%
                       1942
                              \usebibmacro{editor+others}%
                       1943
                       1944
                              \setunit{\labelnamepunct}\newblock
                       1945
                              \usebibmacro{maintitle+title}%
                              \newunit
                       1946
                       1947
                              \printlist{language}%
                              \newunit\newblock
                       1948
                       1949
                              \usebibmacro{event+venue+date}%
                              \newunit\newblock
                       1950
                              \usebibmacro{editor+others}%
                       1951
                       1952
                              \setunit{\addperiod\space}%
                              \newblock
                       1953
```

```
\usebibmacro{series+number}%
1954
       \newunit
1955
       \newblock
1956
       \iffieldundef{maintitle}
1957
         {\printfield{volume}%
1958
          \printfield{part}}
1959
1960
         {}%
1961
       \newunit
       \printfield{volumes}%
1962
       \setunit{\addperiod\space}%
1963
       \newblock
1964
       \printfield{note}%
1965
       \setunit{\addperiod\space}%
1966
       \newblock
1967
1968
       \printlist{organization}%
1969
       \setunit{\addperiod\space}%
1970
       \usebibmacro{publisher+location+date}%
1971
1972
       \newblock
       \usebibmacro{chapter+pages}%
1973
       \newunit
1974
       \printfield{pagetotal}%
1975
       \newunit\newblock
1976
1977
       \iftoggle{bbx:isbn}
         {\printfield{isbn}}
1978
         {}%
1979
       \newunit\newblock
1980
       \usebibmacro{doi+eprint+url}%
1981
       \newunit\newblock
1982
       \usebibmacro{addendum+pubstate}%
1983
1984
       \newunit\newblock
       \usebibmacro{pageref}%
1985
1986
       \usebibmacro{finentry}}
Technical reports
 author
 title
 year
 type
 number
 institution
 address
 url
 note
1987 \DeclareBibliographyDriver{report}{%
       \usebibmacro{bibindex}%
```

report bibdriver

1988

- 1989 \usebibmacro{begentry}%
- 1990 \usebibmacro{author}%
- 1991 \setunit{\labelnamepunct}\newblock
- 1992 \usebibmacro{title}%
- 1993 \setunit{\addperiod\space}%
- 1994 \printfield{type}%
- 1995 \newunit
- 1996 \printfield{number}%
- 1997 \setunit{\addperiod\space}%
- 1998 \printlist{institution}%
- 1999 \setunit\*{\addperiod\space}\newblock
- 2000 \printlist{location}%
- 2001 \setunit\*{\addperiod\space}\newblock
- 2002 \printfield{url}%
- 2003 \setunit\*{\addperiod\space}\newblock
- 2004 \printfield{note}%
- 2005 \newunit\newblock
- 2006 \usebibmacro{finentry}}%
- 2007 \DeclareBibliographyAlias{techreport}{report}%

#### thesis bibdriver

- 2008 \DeclareBibliographyDriver{thesis}{%
- 2009 \usebibmacro{bibindex}%
- 2010 \usebibmacro{begentry}%
- 2011 \usebibmacro{author}%
- 2012 \setunit{\labelnamepunct}\newblock
- 2013 \usebibmacro{title}%
- 2014 \newunit
- 2015 \printlist{language}%

## Period after title, if any

- 2016 \setunit{\addperiod\space}%
- 2017 \printfield{type}%
- 2018 \setunit\*{\addcomma\space}%
- 2019 \usebibmacro{institution+location+date}%
- 2020 \setunit{\addperiod\space}%
- 2021 \usebibmacro{chapter+pages}%
- 2022 \newunit
- 2023 \printfield{pagetotal}%
- 2024 \newunit\newblock
- 2025 \printfield{url}%
- 2026 \setunit\*{\addperiod\space}\newblock
- 2027 \printfield{note}%
- 2028 \newunit\newblock
- 2029 \usebibmacro{addendum+pubstate}%
- 2030 \newunit\newblock
- 2031 \usebibmacro{pageref}%
- 2032 \usebibmacro{finentry}}

### unpublished bibdriver

intitle+booktitle

ournal+issuetitle bibmacro

bibmacro

```
2033 \DeclareBibliographyDriver{unpublished}{%
      \usebibmacro{bibindex}%
2034
2035
      \usebibmacro{begentry}%
      \usebibmacro{author}%
2036
      \setunit{\labelnamepunct}\newblock
2037
      \usebibmacro{title}%
2038
      \newunit
2039
      \printlist{language}%
2040
      \newunit\newblock
2041
      \printfield{howpublished}%
2042
      \newunit\newblock
2043
2044
      \printfield{note}%
      \newunit\newblock
      \usebibmacro{date}%
2046
      \newunit\newblock
2047
2048
      \iftoggle{bbx:url}
        {\usebibmacro{url+urldate}}
2049
        {}%
2050
      \newunit\newblock
2051
      \usebibmacro{addendum+pubstate}%
2052
2053
      \newunit\newblock
      \usebibmacro{pageref}%
2054
      \usebibmacro{finentry}}
2055
2056 \renewbibmacro*{maintitle+booktitle}{%
      \iffieldundef{maintitle}
2057
2058
       {\usebibmacro{maintitle}%
2059
        \addspace
2060
        \newblock
2061
        \iffieldundef{volume}
2062
          {}
2063
2064
          {\printfield{volume}%
           \printfield{part}%
2065
           \addspace
2066
2067
      \usebibmacro{booktitle}%
2068
      \newunit}
2069
2070 \renewbibmacro*{journal+issuetitle}{%
      \usebibmacro{journal}%
2071
      \setunit*{\addspace}%
2072
      \iffieldundef{series}
2073
        {}
2074
2075
        {\new unit}
```

```
\printfield{series}%
2076
          \setunit{\addspace}}%
2077
      \printfield{volume}%
2078
      \printfield[parens]{number}%
2079
      \setunit{\addcomma\space}%
2080
      \printfield{eid}%
2081
      \setunit{\addspace}%
2082
      \usebibmacro{issue+date}%
2083
      \setunit{\addcolon\space}%
2084
      \usebibmacro{issue}%
2085
      \newunit}
2086
```

### isa:doi+eprint+url

```
bibmacro
```

```
\newbibmacro*{emisa:doi+eprint+url}{%
      \iftoggle{bbx:doi}
2088
         {\printfield{doi}}
2089
2090
      \newunit\newblock
2091
      \iftoggle{bbx:eprint}
2092
         {\usebibmacro{eprint}}
2093
2094
      \newunit\newblock
2096
      \iftoggle{bbx:url}
         {\usebibmacro{emisa:url+urldate}}
2097
2098
```

This is the end of the code taken (and modified) from standard.bbx.

**Code from authoryear.bbx** The following code is taken from authoryear.bbx and modified at several places (see comments). The macros in this subsection will supersede any previous definition by the same name(s).

### author bibmacro

```
2099 \renewbibmacro*{author}{%
      \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
2100
       {\ifthenelse{\iffieldequals{fullhash}{\bbx@lasthash}\AND
2101
                     \NOT\iffirstonpage\AND
2102
2103
                     \(\NOT\boolean{bbx@inset}\OR
                     \iffieldequalstr{entrysetcount}{1}\)}
2104
         {\bibnamedash}
2105
         {\usebibmacro{bbx:savehash}%
2106
2107
          \printnames[emisa:names]{author}%
          \iffieldundef{authortype}
2108
            {\setunit{\addspace}}
2109
            {\setunit{\addcomma\space}%
2110
2111
             \usebibmacro{authorstrg}%
             \setunit{\addspace}}}%
2112
       }{%
2113
```

```
\global\undef\bbx@lasthash
                            2114
                            2115
                                     \usebibmacro{labeltitle}%
                                     \setunit*{\addspace}}%
                            2116
                                   \usebibmacro{date+extrayear}}
                            2117
      bbx:editor bibmacro
                            2118 \renewbibmacro*{bbx:editor}[1]{%
                                   \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                            2119
                                     {\ifthenelse{\iffieldequals{fullhash}{\bbx@lasthash}\AND
                            2120
                            2121
                                                  \NOT\iffirstonpage\AND
                                                  \(\NOT\boolean{bbx@inset}\OR
                            2122
                                                  \iffieldequalstr{entrysetcount}{1}\)}
                            2123
                                       {\bibnamedash}
                            2124
                                       {\printnames[emisa:names]{editor}%
                            2125
                                        \setunit{\addcomma\space}%
                            2126
                            2127
                                        \usebibmacro{bbx:savehash}}%
                                      \usebibmacro{#1}%
                            2128
                                      \clearname{editor}%
                            2129
                            2130
                                      \setunit{\addspace}%
                                     }{\global\undef\bbx@lasthash
                            2131
                                      \usebibmacro{labeltitle}%
                            2132
                                      \setunit*{\addspace}%
                            2133
                                     }%
                            2134
                                     \usebibmacro{date+extrayear}%
                            2135 %
                            2136
                                  }
  bbx:translator bibmacro
                            2137 \renewbibmacro*{bbx:translator}[1]{%
                                   \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                            2138
                            2139
                                     {\tt \{\fill lash\}{\tt bbx@lasthash}\AND}
                                                  \NOT\iffirstonpage\AND
                            2140
                                 \(\NOT\boolean{bbx@inset}\OR
                            2141
                                    \iffieldequalstr{entrysetcount}{1}\)}
                            2142
                                        {\bibnamedash}
                            2143
                                        {\printnames[emisa:names]{translator}%
                            2144
                            2145 \setunit{\addcomma\space}%
                                \usebibmacro{bbx:savehash}}%
                            2146
                                      \usebibmacro{translator+othersstrg}%
                            2148
                                      \clearname{translator}%
                            2149
                                      \setunit{\addspace}}%
                                     {\global\undef\bbx@lasthash
                            2150
                                      \usebibmacro{labeltitle}%
                            2151
                                      \setunit*{\addspace}}%
                            2152
                            2153
                                   \usebibmacro{date+extrayear}}
blisher+location+date
                 bibmacro
                            2154 \renewbibmacro*{publisher+location+date}{%
                                   \printlist{publisher}%
                            2155
```

```
2156 \setunit*{\addcomma\space}%
2157 \printlist{location}%
2158 \newunit}

2159 \renewbibmacro*{institution+location+date}{%
2160 \printlist{institution}%
2161 \setunit*{\addcomma\space}%
2162 \printlist{location}%
```

This is the end of the code taken (and modified) from authoryear.bbx.

#### Localization

2163

\newunit}

stitution+location+date

bibmacro

```
2164 \DefineBibliographyStrings{english}{%
2165 urlseen = {Last Access},
2166 techreport = {},%
2167 }%
2168 \DefineBibliographyStrings{german}{%
2169 urlseen = {Letzter Zugriff},%
2170 techreport = {},%
2171 }%
2172 \DefineBibliographyStrings{ngerman}{%
2173 urlseen = {Letzter Zugriff},%
2174 techreport = {},%
2175 }%
```

### Unlocalization

```
2176 % year/month/day
2177 \protected\def\mkbibdateiso#1#2#3{%
      \iffieldundef{#1}{}{%
2178
        \thefield{#1}%
2179
        \iffieldundef{#2}{}{-}}%
2180
      \iffieldundef{#2}{}{%
2181
        \mkdatezeros{\thefield{#2}}%
2182
        \left\{ fifieldundef\{\#3\}\{\}\{-\}\}\right\}
      \mkdatezeros{\thefield{#3}}%
2184
2185 }%
2186 \DefineBibliographyExtras{english}{\let\mkbibdateshort\mkbibdateiso}%
2187 \DefineBibliographyExtras{german}{\let\mkbibdateshort\mkbibdateiso}%
2188 \DefineBibliographyExtras{ngerman}{\let\mkbibdateshort\mkbibdateiso}%
```

Here, the EMISAJ bibliography style file emisa.bbx ends.

```
2189 (/bbx)
```

### 19.10.2 The EMISAJ citation style

A citation style is a set of commands such as \cite which print different types of citations. Such styles are defined in files with the suffix cbx. The biblatex package loads the selected citation style file at the end of the package. Note that a small repertory of frequently used macros shared by several of the standard citation styles is also included in biblatex.def. This file is loaded at the end of the package as well, prior to the selected citation style.

The EMISAJ citation style is defined in the file emisa.cbx which is generated from the following code lines between the <\*cbx> and </cbx> meta-tags.

```
2190 \( \scbx \)
2191 \ProvidesFile{emisa.cbx}[2016/07/18 2.1.1 EMISA citation style]
2192 \RequireCitationStyle{authoryear-comp}
2193 \renewcommand*{\nameyeardelim}{\addspace}
```

\DeclareRangeChars configures the \ifnumerals and \ifpages tests. The setup will also affect \iffieldnums and \iffieldpages as well as \mkpageprefix and \mkpagetotal. The argument is an undelimited list of characters which are to be considered as range indicators. The regular version of this command replaces the current setting, the starred version appends its argument to the current list. The default setting is {\pi, ;-+/}, so strings like '3-5', '35+', '8/9' and so on will be considered as a range.

Here we add the character f to enable ranges like "123f" and "456ff".

```
2194 \DeclareRangeChars*{f}

Here, the EMISAJ citation style file emisa.cbx ends.

2195 \langle /cbx \rangle

2196 \langle /biblatex \rangle

2197 \langle *class \rangle

Here, the LATEX class EMISAJ ends.

2198 \langle /class \rangle
```

## 19.11 Examples and templates

## 19.11.1 Document templates

Here we add a couple of small document templates to ease the creation of documents: emisa-article-template.tex for article authors and emisa-issue-template.tex for copy editors. Both are generated from the following piece.

```
2207 (/article)
2208 (issue)\documentclass[final,cover]{emisa}
2209 (*article | issue)
2210 %% The following package imports are recommended, but not obligatory;
2211 %% you might want take a look into their respective manuals if you
2212 %% don't know what they do.
2213 \usepackage{amsmath,amssymb,mathtools}
2214 \usepackage{algorithmic,algorithm}
2215 %% Additional package imports go here:
2216 %% \usepackage{}
2217 (/article | issue)
2218 (*issue)
2219 %% Insert here issue data:
2220 \volume{}% Volume No.
2221 \issue{}{}% Issue No. and Issue Date
2222 %% If there are any bibliography data bases to be used globally
2223 %% please indicate here:
2224 \bibliography{}
2225 %% Insert here any (relative or absolute) path to be searched for
2226 %% graphics files:
2227 \graphicspath{{./figs_base/},{}}
2228 %% Here you can alter the cover pages; e.g. this:
2229 %% \coverII{\AtPageDeadCenter{Something}}
2230 %% typesets the word "Something" centered on the inner side of the
2231 %% front sheet.
2232 %% You can also delete any cover pages at all by defining them empty,
2233 %% see below:
2234 \coverII{}
2235 %% This outputs the SIG-MOBIS page on the inner side of the back
2236 %% sheet:
2237 \coverIII{\AtPageCenter{\sigmobispage}}
2238 (/issue)
2239 (*article | issue)
2240 %% Here, the normal text begins.
2241 \begin{document}
2242 (/article | issue)
2243 (*issue)
2244 \tableofcontents
2245
2246 \begin{editorial}
2247 %% Please insert editorial text here.
2249 \end{editorial}
2250 (/issue)
2251 (*article | issue)
2252 \begin{article}{%
2253 %% Please declare the title elements of your article here. Unused
2254 %% elements can either be deleted or commented out, or else just let
2255 %% empty. In either case they are not typeset.
```

```
2256 %% If the option referee or review is given, all author tags, address,
2257 %% e-mail and acknowledgements will be likewise omitted.
      \title[Insert shorttitle for page headline]{Enter full title here}
2258
      \subtitle{Enter subtitle here, or leave empty}
2259
      \author*{FirstName LastName of corresponding author}{email@address.org}
2260
      \address{Enter affiliation of first (corresponding) author here. Note that only the starred v
2261
      %% Author with a different address
2262
      \author{FirstName LastName}
2263
      \address{Enter affiliation of second and further authors here. Add further authors following t
2264
      %% Author with an already used address
2265
      \author{FirstName LastName}
2266
      \address[Letter of already used address]{}
2267
      %% Enter abstract, keywords, acknowledgements, authornotes
2268
      \abstract{Enter abstract here}
2269
2270
      \keywords{Enter at a minimum three keywords here. Keyword1 \and Keyword2 \and Keyword3}
2271
      \acknowledgements{Enter acknowledgements here.}
      \authornote{If your submission is based on a prior publication and revises / extends this work
2272
      %% Please declare here the bibliography data base(s) you want to use
2273
      %% in this article (make sure to add the file extension, e.g. .bib):
2274
      \bibliography{}
2275
      %% Take note of the following closing bracket!
2276
2277
      }
2278 (/article | issue)
2279 (*issue)
2280
      \editor{My self}
      \received{24 Octover 2014}
2281
2282
      \accepted[2]{1 November 2015}
2283
      \doi{10.5073/EMISA.2011.11.1}
      \license{License information}
2284
      %% or
2285
      \CCBYNCSAThree
2286
      %% or
2287
      \CCBYNCSAFour
2288
2289 (/issue)
2290 (*article | issue)
2291 %% Please insert your article text here.
2292 \section{Introduction}
2293 \subsection{The research problem}
2294 %% Remember to provide a unique label for each section, table, figure, listing and algorithm for
2295 %%
2296 %% This directive typesets the bibliography. To achieve this, one has
2297 %% to run the biber program on the corresponding auxiliary file
2298 %% generated in the previous LaTeX run; you can just use the job name
2299 %% (the name of this file without ".tex")", e.g.: biber emisa-author-template
2300 \printbibliography
2301 %
2302 \end{article}
2303 (/article | issue)
```

2304 (\*issue)

```
2305
2306 %% Please insert as much article environments here as are needed.
2307 \begin{article}{%
       \title{}
2308
       \subtitle{}
2309
       \author*{<Name>}{<Email address>}
2310
2311
       \address{address line 1\\address line 2}
2312
       % Author with unique address
       \author{<Name>}
2313
       \address{address line 1\\address line 2}
2314
       % Author with the same address as another author
2315
       \author{<Name>}
2316
2317
       \address[a]{}
       \abstract{<Insert abstract>}
2318
2319
       \keywords{Keyword 1 \and keyword 2 \and keyword 3}
2320
       \authornote{This article extends an earlier conference paper, see ...}
2321
       \acknowledgements{}
       \editor{My self}
2322
2323
       \received{24 Octover 2014}
       \accepted[2]{1 November 2015}
2324
       \doi{10.5073/EMISA.2011.11.1}
2325
2326
       \bibliography{}
      }
2327
2328
2330 \printbibliography
2331 \end{article}
2332
2333 \begin{cfp}
2334 %% Please insert your Call for papers here.
2335 \end{cfp}
2336
2337 \imprint
2338 \editorialboard
2339 \guidelines
2340 (/issue)
2341 ⟨article | issue⟩\end{document}
2342 (/template)
```