

Foundations and Trends[®] in Example Using the Foundations and Trends[®] L^AT_EX Class

Instructions for Creating an FnT Article

Suggested Citation: Alet Heezemans and Mike Casey (2016), "Using the Foundations and Trends[®] L^AT_EX Class", Foundations and Trends[®] in Example: Vol. xx, No. xx, pp 1–16. DOI: 10.1561/XXXXXXXXXX.

Alet Heezemans

now publishers, Inc.

alet.heezemans@nowpublishers.com

Mike Casey

now publishers, Inc.

mike.casey@nowpublishers.com

This article may be used only for the purpose of research, teaching, and/or private study. Commercial use or systematic downloading (by robots or other automatic processes) is prohibited without explicit Publisher approval.

now

the essence of knowledge

Boston — Delft

Contents

| | | |
|----------|---|----------|
| 1 | The Distribution and Installation | 2 |
| 1.1 | Pre-requisites | 2 |
| 1.2 | The Distribution | 2 |
| 1.3 | Installation | 3 |
| 2 | Quick Start | 5 |
| 2.1 | <code>\documentclass</code> | 5 |
| 2.2 | <code>\issuesetup</code> | 6 |
| 2.3 | <code>\maintitleauthorlist</code> | 6 |
| 2.4 | <code>\author</code> and <code>\affil</code> | 6 |
| 2.5 | <code>\addbibresource</code> | 6 |
| 3 | Style Guidelines and \LaTeX Conventions | 7 |
| 3.1 | Abstract | 7 |
| 3.2 | Acknowledgements | 7 |
| 3.3 | References | 7 |
| 3.4 | Citations | 8 |
| 3.5 | Preface and Other Special Chapters | 8 |
| 3.6 | Long Chapter and Section Names | 9 |
| 3.7 | Internet Addresses | 9 |

| | |
|--|-----------|
| 4 Compiling Your FnT Article | 10 |
| 4.1 Compiling Your Article Prior to Submission | 10 |
| 4.2 Preparing the Final Versions | 11 |
| 4.3 Compiling The Final Versions | 11 |
| Acknowledgements | 13 |
| Appendices | 14 |
| A Journal Codes | 15 |
| B Files Produced During Compilation | 16 |
| C Figure Example | 17 |
| References | 18 |

Using the Foundations and Trends[®] L^AT_EX Class

Alet Heezemans¹ and Mike Casey²

¹*now publishers, Inc.; alet.heezemans@nowpublishers.com*

²*now publishers, Inc.; mike.casey@nowpublishers.com*

ABSTRACT

This document describes how to prepare a Foundations and Trends[®] article in L^AT_EX . The accompanying L^AT_EX source file `FnTarticle.tex` (that produces this output) is an example of such a file.

1

The Distribution and Installation

1.1 Pre-requisites

You will need a working LaTeX installation. We recomend using pdf`flatex` to process the files. You will also need `biber.exe` installed. This is distributed as part of the latest versions of LiveTeX and MikTeX. If you have problems please let us know.

1.2 The Distribution

The distribution contains 2 folders: `nowfnt` and `nowfnttexmf`.

1.2.1 Folder `nowfnt`

This folder contains the following files using a flat stucture required to compile a FnT issue:

- `essence_logo.eps`
- `essence_logo.pdf`
- `now_logo.eps`
- `now_logo.pdf`

- nowfnt.cls
- nowfnt-biblatex.sty
- nowfnt-listofjournals.cfg
- NOWFnT-data.tex

It also contains the following folders:

journaldata A set of data files containing the journal-specific data for each journal. There are 3 files per journal:

<jrnlcode>-editorialboard.tex

<jrnlcode>-journaldata.tex

<jrnlcode>-seriespage.tex

where <jrnlcode> is the code given in [Appendix A](#).

SampleArticle This folder contains this document as an example of an article typeset in our class file. The document is called `FnTarticle.tex`. It also contains this PDF file and the `.bib` file.

1.2.2 Folder `nowfnttexmf`

This folder contains all the files required in a `texmf` structure for easy installation.

1.3 Installation

If your \LaTeX installation uses a `localtexmf` folder you can copy the `nowtexmf` folder to the `localtexmf` folder and make it known to your \TeX installation. You can now proceed to use the class file as normal.

If you prefer to use the flat files, you will need to copy all the required files each time into the folder in which you are compiling the article. Do not forget to copy the 3 data files for the specific journal from the folder `journaldata`.

You may need to configure your \TeX editor to be able to run the programs. If you have problems installing these files in your own system, please contact us. We use Computer Modern fonts for some of the

journals. You will need to make sure that these fonts are installed. Refer to your system documentation on how to do this.

2

Quick Start

The now-journal class file is based on the standard L^AT_EX book class file so you can use any commands you normally would. NOTE: Do not modify any class or style files included in our distribution. If you do so, we will reject your files.

The preamble contains a number of commands for use when making the final versions of your manuscript once it has been accepted and you have been instructed by our Production Team.

2.1 `\documentclass`

The options to this command enable you to choose the journal for which you producing content and to indicate the use of biber.

```
\documentclass[<jrnlcode>,biber]{nowfnt}.
```

`<jrnlcode>` is a pre-defined code identifying each journal. See Appendix [A](#).

2.2 `\issuesetup`

These commands are only used in the final published version. Leave these as the default.

2.3 `\maintitleauthorlist`

This is the authors list for the cover page. Use the name, affiliation and email address. Separate each line in the address by `\\`. Separate authors by `\and`. Do not use verbatim or problematic symbols. `_` in email address should be entered as `_`. Pay attention to long email addresses.

If your author list is too long to fit on a single page you can use double column. In this case, precede the `\maintitleauthorlist` command with the following:

```
\booltrue{authortwocolumn}
```

2.4 `\author` and `\affil`

These commands are used to typeset the authors and the affiliations on the abstract page of the article and in the bibliographic data.

`\author` uses an optional number to match the author with the affiliation. The author name is written `<surname>`, `<firstname>`.

`\affil` uses an optional number to match the author with the author name. The content is `<affiliation>`; `<email address>`.

2.5 `\addbibresource`

Identifies the name of the bib file to be used.

3

Style Guidelines and L^AT_EX Conventions

In this chapter, we outline guidelines for typesetting and using L^AT_EX that you should follow when preparing your document

3.1 Abstract

Ensure that the abstract is contained within the

```
\begin{abstract}
```

environment.

3.2 Acknowledgements

Ensure that the acknowledgements are contained within the

```
\begin{acknowledgements}
```

environment.

3.3 References

now publishers uses two main reference styles. One is numeric and the other is author/year. The style for this is pre-defined in the L^AT_EX

distribution and must not be altered. The style used for each journal is given in the table in Appendix A. Consult the sample-now.bib file for an example of different reference types.

The References section is generated by placing the following commands at the end of the file.

```
\backmatter
\printbibliography
```

3.4 Citations

Use standard `\cite`, `\citep` and `\citet` commands to generate citations.

Run biber on your file after compiling the article. This will automatically create the correct style and format for the References.

3.4.1 Example citations

This section cites some sample references for your convenience. These are in author/year format and the output is shown in the References at the end of this document.

Example output when using `\citet`: ArAuthor *et al.* (2014) Citation 1 and ReportAuthor *et al.* (2014) is Citation 2.

Example output when using `\citep`: (BoEditor *et al.*, 2014) is Citation 3 and (InprocAuthor *et al.*, 2014) is Citation 4.

3.5 Preface and Other Special Chapters

If you want to include a preface, it should be defined as follows:

```
\chapter*{Preface}
\markboth{\sffamily\slshape Preface}
{\sffamily\slshape Preface}
```

This ensures that the preface appears correctly in the running headings.

You can follow a similar procedure if you want to include additional unnumbered chapters (*e.g.*, a chapter on notation used in the paper), though all such chapters should precede Chapter 1.

Unnumbered chapters should not include numbered sections. If you want to break your preface into sections, use the starred versions of `section`, `subsection`, *etc.*

3.6 Long Chapter and Section Names

If you have a very long chapter or section name, it may not appear nicely in the table of contents, running heading, document body, or some subset of these. It is possible to have different text appear in all three places if needed using the following code:

```
\chapter[Table of Contents Name]{Body Text Name}  
\chaptermark{Running Heading Name}
```

Sections can be handled similarly using the `sectionmark` command instead of `chaptermark`.

For example, the full name should always appear in the table of contents, but may need a manual line break to look good. For the running heading, an abbreviated version of the title should be provided. The appearance of the long title in the body may look fine with L^AT_EX's default line breaking method or may need a manual line break somewhere, possibly in a different place from the contents listing.

Long titles for the article itself should be left as is, with no manual line breaks introduced. The article title is used automatically in a number of different places by the class file, and manual line breaks will interfere with the output. If you have questions about how the title appears in the front matter, please contact now publishers.

3.7 Internet Addresses

The class file includes the `url` package, so you should wrap email and web addresses with `\url{}`. This will also make these links clickable in the PDF.

4

Compiling Your FnT Article

During the first run using the class file, a number of new files will be created that are used to create the book and ebook versions during the final production stage. You can ignore these until preparing the final versions as described in Section 4.3. A complete list of the files produced are given in Appendix B.

4.1 Compiling Your Article Prior to Submission

To compile an article prior to submission proceed as follows:

Step 1: Compile the \LaTeX file using `pdflatex`.

Step 2: Run `biber` on your file.

Step 3: Compile again using `pdfLaTeX`. Repeat this step.

Step 4: Inspect the PDF for bad typesetting. The output PDF should be similar to `FnTarticle.pdf`. Work from the first page when making adjustments to resolve bad line breaks and bad page breaks. Re-run `pdfLaTeX` on the file to check the output after each change.

4.2 Preparing the Final Versions

On final acceptance, and should you choose the option to compile the final versions of your PDF, you will receive a set of data from our Production Team. With the exception of "lastpage", enter the data into the `\issuesetup` command in the preamble.

lastpage= This is the last page number in the sequential numbering of the journal volume. You will need to enter this once you have compiled the article once (see below).

4.3 Compiling The Final Versions

The final versions should be created once you received all the bibliographic data from our Production Team and you've entered it into the preamble. You will be creating a final online journal version pdf; a printed book version pdf; and an ebook version pdf.

Step 1: Compile the \LaTeX file using `pdflatex`.

Step 2: Run `biber` on your file.

Step 3: Compile again using `pdfLaTeX`. Repeat this step.

Step 4: Inspect the PDF for bad typesetting. The output PDF should be similar to `FnTarticle.pdf`. Work from the first page when making adjustments to resolve bad line breaks and bad page breaks. Re-run `pdfLaTeX` on the file to check the output after each change.

Step 5: When you are happy with the output make a note of the last page number and enter this in `\issuesetup`.

Step 6: Compile the article again.

Step 7: Open the file `<YourFilename>-nowbook.tex`. This will generate the printed book version pdf.

Step 8: Compile the \LaTeX file using `pdflatex`.

Step 9: Run `biber` on your file.

Step 10: Compile again using pdfLaTeX. Repeat this step.

Step 11: Repeat steps 7-10 on the file: <YourFilename>-nowebook.tex.
This will generate the ebook version pdf.

Acknowledgements

The authors are grateful to Ulrike Fischer, who designed the style files, and Neal Parikh, who laid the groundwork for these style files.

Appendices

A

Journal Codes

The table below shows the journal codes to be used in `\documentclass`.
For Example: `\documentclass[SIG,biber]{nowfnt}`

Table A.1: Journal codes.

| Journal | <jrnocode> | Ref Style |
|------------------------------------|------------|-----------|
| FnT Accounting | ACC | author |
| FnT Comm and Information Theory | CIT | numeric |
| FnT Electric Energy Systems | EES | author |
| FnT Networking | NET | numeric |
| FnT Signal Processing | SIG | numeric |
| FnT Systems and Control | SYS | author |
| FnT Technology, Information and OM | TOM | author |

B

Files Produced During Compilation

The files that are created during compilation are listed below. The additional *.tex files are used during the final production process only. See Section [4.3](#).

FnTarticle-nowbook.tex
FnTarticle-nowchapter.tex
FnTarticle-nowebook.tex
FnTarticle-nowechapter.tex
FnTarticle-nowsample.tex
FnTarticle.aux
FnTarticle.bbl
FnTarticle.bcf
FnTarticle.blg
FnTarticle.log
FnTarticle.out
FnTarticle.pdf
FnTarticle.run.xml
FnTarticle.synctex.gz
FnTarticle.tex
FnTarticle.toc
sample-now.bib

C

Figure Example

the essence of knowledge

Figure C.1: Example of a figure.

References

- ArAuthor, A., B. Author, and C. Author. 2014. “An article on something interesting (volume + number)”. *Journal of interesting Things*. 6(1): 1–122. I have something special to say about this publication. ISSN: 0899-8256. DOI: [10.5161/202.00000013](https://doi.org/10.5161/202.00000013). URL: <http://www.nowpublishers.com/> (accessed on 07/10/2014).
- BoEditor, A., B. Editor, and C. Editor, eds. 2014. *A very special book (editor, volume + month)*. 4th ed. Vol. 6. *A series of special books*. Delft: now Publishers. DOI: [10.5161/202.00000013](https://doi.org/10.5161/202.00000013).
- InprocAuthor, A., B. Author, and C. Author. 2014. “An article on something interesting (volume + number)”. In: *Proceedings of an interesting Conference*. Vol. 6. No. 1. Something interesting about this publication. Organization. Delft: now Publishers. 20–30. DOI: [10.5161/202.00000013](https://doi.org/10.5161/202.00000013).
- ReportAuthor, A., B. Author, and C. Author. 2014. “A Report”. *Tech. rep.* This is a note about this report. Delft Society. URL: <http://www.nowpublishers.com/> (accessed on 07/21/2014).