

# ElegantPaper: An Elegant L<sup>A</sup>T<sub>E</sub>X Template for Working Papers

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ElegantL<sup>A</sup>T<sub>E</sub>X Program

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## Abstract

This documentation illustrates the usage of the **ElegantPaper** template. This template is based on the standard L<sup>A</sup>T<sub>E</sub>X article class, which is designed for working paper writing. With this template, you can get rid of all the worries about the format and merely focus on writing. For any question, please leave a message on [GitHub::ElegantPaper/Issues](https://github.com/ElegantPaper/Issues). Want to know more about ElegantL<sup>A</sup>T<sub>E</sub>X Templates? Please visit: <https://github.com/ElegantLaTeX>.

**Keywords:** ElegantL<sup>A</sup>T<sub>E</sub>X, Working Paper, Template

**Caution:** This template will no longer be maintained since January 1st, 2023.

## Update Notes

This version changes two important parts: fonts and bibliography.

**Fonts:** Due to the newtx package updates, we change the font settings for all the templates of Elegant-LaTeX. Under X<sub>Ǝ</sub>L<sup>A</sup>T<sub>E</sub>X, we use **fontspec** package to set the font to TeX Gyre Terms/Heros.

**Bibliography:** The bib file is no longer wpref.bib, it's same with ElegantBook bibfile, reference.bib. Besides, we use biblatex/biber rather than bibtex to handler bibliography, you can use bibstyle and citestyle to set the styles. For convenience, we offer a bibend option, which can take values of biber (default) and bibtex, please refer to Bibliography section and biblatex package document for more information.

## 1 Introduction

This template is based on the standard L<sup>A</sup>T<sub>E</sub>X article class, hence the arguments of article class are acceptable (a4paper, 10pt and etc.). Alternative engines are pdfL<sup>A</sup>T<sub>E</sub>X and X<sub>Ǝ</sub>L<sup>A</sup>T<sub>E</sub>X.

```
\documentclass[a4paper,11pt]{elegantpaper}
```

**Note:** ElegantPaper is available on [Overleaf](#) and [gitee](#).

## 1.1 Global Options

Language mode option `lang` allows two alternative inputs, `lang=en` (default) for English or `lang=cn` for Chinese. `lang=cn` will make the caption of figure/table, abstract name, refname etc. Chinese. You can use this option as

```
\documentclass[lang=cn]{elegantpaper} % or
\documentclass[cn]{elegantpaper}
```

**Note:** Under the English mode `lang=en`, Chinese characters are not allowed. To type in Chinese, please load `ctex` or `xeCJK` package at the preamble as:

```
\usepackage[UTF8,scheme=plain]{ctex}
```

## 1.2 Math Fonts

This template defines a new option (`math`), with three options:

1. `math=cm` (default), use L<sup>A</sup>T<sub>E</sub>X default math font (recommended).
2. `math=newtx`, use `newtxmath` math font (may bring about bugs).
3. `math=mtpro2`, use `mtpro2` package to set math font.

## 1.3 Custom Commands

Default L<sup>A</sup>T<sub>E</sub>X commands and environments are all the same in this template<sup>1</sup>. We created four new commands:

1. `\email`: create the hyperlink to email address.
2. `\figref`: same usage as `\ref`, but start with label text **Figure n**.
3. `\tabref`: same usage as `\ref`, but start with label text **Table n**.
4. `\keywords`: create the keywords in the abstract section.

## 1.4 Bibliography

This template uses biblatex to generate the bibliography, the default citestyle and bibliography style are both `numeric`. Let's take a glance at the citation effect. `[en1]` use data from a major peer-to-peer lending `[en3]` marketplace in China to study whether female and male investors evaluate loan performance differently `[en2]`.

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<sup>1</sup>To ensure the codes are replicatable. We recommend users pay more attention to the contents other than formats. This is the meaning of the existence of the template.

If you want to use biblatex, you must create a file named `reference.bib`, add bib items (from Google Scholar, Mendeley, EndNote, and etc.) to `reference.bib` file, then cite the bibkey in the `tex` file. The biber will automatically generate the bibliography for the reference you cited.

To change the bibliography style, this version introduces two options: `citestyle` and `bibstyle`, please refer to [CTAN:biblatex](#) for more detail about these options. You can change your bibliography style as

```
\documentclass[citestyle=numeric-comp, bibstyle=authoryear]{elegantpaper}
```

We also add the `bibend` option to this template, you can choose biber (default) or bibtex as you like, biber is recommended.

```
\documentclass[bibtex]{elegantpaper} % or
\documentclass[bibend=bibtex]{elegantpaper}
```

## 1.5 Use newtx fonts

If you use `newtx` fonts, you can use the `math` option as

```
\documentclass[math=newtx]{elegantpaper}
```

### 1.5.1 Hyphens

Since the template uses `newtx`, please pay attention to the hyphens. For instance,

$$\int_{R^q} f(x, y) dy.off \tag{1}$$

The corresponding code is:

```
\begin{equation}
\int_{R^q} f(x, y) dy.\emph{of \kern0pt f}
\end{equation}
```

### 1.5.2 Symbol Fonts

Feedback from ElegantBook users claims that error occurs when using our templates with `yhmath`, `esvect` and other packages.

```
LaTeX Error:
Too many symbol fonts declared.
```

The reason is that the template redefines font for math so that no new math font is allowed to be added. To use `yhmath` and/or `esvect`, please locate `yhmath` or `esvect` in `elegantpaper.cls`, uncomment corresponding related code.

## 2 FAQ

- 1). *How to remove the information of version?*

Please comment `\version{x.xx}`.

- 2). *How to remove the information of date?*

Please type in `\date{}`.

- 3). *How to add several authors?*

Use `\and` in `\author` and use `\\` to start a new line.

```
\author{author 1\\ org. 1 \and author 2 \\ org. 2 }
```

- 4). *How to display bilingual abstracts?*

Please refer to [GitHub::ElegantPaper/issues/5](#)

## 3 Acknowledgement

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