

A English Version L^AT_EX Template for Huazhong Uni. of Sci. & Tech. Thesis

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1 Introduction

This is a English version **unofficial** L^AT_EX Template for Huazhong University of Science and Technology Thesis. If you write your thesis in Chinese, please use **Chinese Version Template**. This template is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

The whole project is published under LPPL v1.3 License at **GitHub**.

2 Install

Please install the latest version of [Texlive](#)(Recommend) or [MiKTeX](#). Please ensure that all the packages are up-to-date.

2.1 Install into local

Use the command below to install this template into local.

```
make install
```

If you need uninstall it, use the command below.

```
make uninstall
```

For Windows User who don't install Make, use the command below to install.

```
makewin32.bat install
```

If you need uninstall it, use the command below.

```
makewin32.bat uninstall
```

Although `makewin32.bat` behaves much like `Makefile`, I still recommend you install Make into your Windows. You can download it from [here](#).

2.2 Use without installation

If you want to use this template temporary rather than installing it into local for long term use. Copy the files listed below from directory `hustthesis-en` into your \TeX project root directory:

- `hustthesis-en.cls`
- `hust-thesis-var-en.tex`

3 Usage



This template can only be compiled by \TeX or \LuaTeX (Recommend).

Insert below code in the top of source code to use this template:

```
\documentclass{hustthesis-en}
```

3.1 Option

There's one option when use this template.

`degree` `degree = \langle none | fyp | bachelor | master | phd \rangle`

Set the category of thesis. It will influence the title of document, see Table 1. The default value is none.

Table 1: Title under different degree

Option	Title
none	A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree
fyp	A Thesis Submitted in Partial Fulfillment of the Requirements for Final Year Project
bachelor	A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Bachelor
master	A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Master
phd	A Thesis Submitted in Partial Fulfillment of the Requirements for the Ph.D

3.2 Variables setting

There're some commands which are used to set the variables for the thesis.

`\title` `\title{\langle title \rangle}`

Set title.

`\author` `\author{\langle author \rangle}`

Set author.

`\date` `\date{\langle Year \rangle}{\langle Month \rangle}{\langle Day \rangle}`

Set date. If you don't set it, template will use current date.

`\schoolname` `\schoolname{\langle school name \rangle}`

Set the name of school which has been set as

`\schoolname{Huazhong University of Science & Technology}` by default. So unless you want to change the name, you don't need to use this command.

<code>\address</code>	<code>\address{\textit{address}}</code>
-----------------------	---

Set the address of school which has been set as
`\address{Wuhan~430074, P.~R.~China}` by default. So unless you want
to change the address, you don't need to use this command.

<code>\major</code>	<code>\major{\textit{major}}</code>
---------------------	-------------------------------------

Set your major.

<code>\supervisor</code>	<code>\supervisor{\textit{supervisor}}</code>
--------------------------	---

Set your supervisor.

<code>\asssupervisor</code>	<code>\asssupervisor{\textit{ass-supervisor}}</code>
-----------------------------	--

Set your ass-supervisor if you have.

<code>\abstract</code>	<code>\abstract{\textit{abstract}}</code>
------------------------	---

Put your abstract.

<code>\keywords</code>	<code>\keywords{\textit{keywords}}</code>
------------------------	---

Put your keywords.

3.3 Other commands

<code>\frontmatter</code>	Used to determine the different part of document. You can see the example at Section 3.4 .
<code>\mainmatter</code>	
<code>\backmatter</code>	

<code>\maketitle</code>	<code>\maketitle</code> and <code>\makecover</code> are the same. Used to create the title page.
<code>\makecover</code>	

<code>\makeabstract</code>	Used to create abstract page.
----------------------------	-------------------------------

<code>\tableofcontents</code>	Used to create table of contents.
-------------------------------	-----------------------------------

<code>ack</code>	<code>\begin{ack}</code> <content> <code>\end{ack}</code>
------------------	---

The `ack` environment is used to create acknowledge page.

<code>\bibliography</code>	<code>\bibliography{<.bib file>}</code>
----------------------------	---

Used to create bibliography page.

appendix The appendix environment is for appendix of course. Used like this:

```
\begin{appendix}
  <content>
\end{appendix}
```

<code>\appendix</code>	Or simple use <code>\appendix</code> to indicate that the rest of document are all in appendix, like this:
------------------------	--

```
\appendix
<content>
```

<code>\listoffigures</code> <code>\listoftables</code>	Create the index for all the figures and tables separately.
---	---

publications	<pre>\begin{publications} \item <thesis> <...> \end{publications}</pre>
--------------	---

The publications environment is where you list all of your published theses. It's usually putted in appendix.

<code>\TurnOffTabFontSetting</code> <code>\TurnOnTabFontSetting</code>

This template has set the font size and line spread for all the tables which makes it's impossible to change font format temporary in one table. So it provides these to command to temporary disable or enable default font setting in table. For example, if you want to change table font size, you can use the code like this:

```
\begingroup
\TurnOffTabFontSetting
\footnotesize % Set your font format as you like.
\begin{tabular}{...}
  <content>
\end{tabular}
\TurnOnTabFontSetting
\endgroup
```

3.4 Simple example

Below is a simple example of using this template. For a complete example see [hustthesis-example.tex](#) which will generate [hustthesis-example.pdf](#).

```
1 \documentclass[degree=phd]{hustthesis-en}
2
3 \title{your title}
4 \author{your name}
5 \major{your major}
6 \supervisor{your supervisor}
7 \date{2013}{6}{1}
8
9 \abstract{the abstract}
10 \keywords{the keywords}
11
12 \begin{document}
13
14 \frontmatter
15 \maketitle
16 \makeabstract
17 \tableofcontents
18 \listoffigures
19 \listoftables
20 \mainmatter
21
22 %% main body
23
24 \backmatter
25
26 \begin{ack}
27 %% acknowledge
28 \end{ack}
29 \bibliography{.bib file}
30
31 \appendix
32
33 \begin{publications}
34 %% your publications
35 \end{publications}
36
37 %% rest of appendix
38
39 \end{document}
```

4 Introduction to some packages used in the template

Here's a list of some packages used in the template.

- `algorithm2e` For display algorithm.
- `enumitem` For set the style of enumerate, itemize and description environment.
- `fancynum` Display the really big number.
- `listings` For display the highlighted code. If you need better quality, use the package `minted`.
- `longtable` Create a very long table.
- `ltxtable` Combine the features of `longtable` and `tabularx`.
- `multirow` Combine multi-rows in table.
- `overpic` Put something over a picture,
- `tabularx` A better table environment.
- `xy-pic` To draw some picture. If you need more advanced features, use the package `tikz`.

5 Index

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