



南京航空航天大学

本科毕业设计（论文）

“How to” Write *Thesis* in English
with N_UA² T_HE_SI_S
N_UA² T_HE_SI_S 英文论文示例

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摘 要

本文主要演示英文论文写作时的注意事项。

大部分中文 \LaTeX 的内容同样适用于英文，在此不再赘述。

关键词： 英语，注意事项

ABSTRACT

In this document, we will demonstrate how to write thesis with $\text{NJA}^2\text{THESIS}$.

Because both English and Chinese essays use the same document class, please refer to the Chinese demo for common features. This document only focuses on English-specific features.

KEY WORDS: English, thesis writing

Contents

Chapter 1	QUICK START	1
1.1	Setup L ^A T _E X Environment.....	1
1.2	Compile Template	1
1.3	Prepare Thesis	1
1.3.1	Using TeXstudio	2
1.3.2	Using vscode	2
1.4	Modify Thesis	2
1.5	Disclaimer	2
Chapter 2	Windows TIPS	3
2.1	Install Simplified Chinese Fonts	3
2.2	Using MikT _E X	3
Chapter 3	INTRODUCTION.....	4
3.1	Theorem Environment	4
3.2	Using Figure.....	4
3.3	Using Table	4
3.4	Using Proof	5
3.5	Using Reference	5
3.6	Organization of the Thesis	5
Bibliography	6
Bibliography	7
Acknowledge	8

Chapter 1 QUICK START

Welcome to $\text{N}\text{U}\text{A}^2\text{ T}\text{H}\text{E}\text{S}\text{I}\text{S}$, a $\text{L}\text{A}\text{T}\text{E}\text{X}$ thesis template with English support for foreign language college and/or international students. We assume that you are familiar with writing articles in $\text{L}\text{A}\text{T}\text{E}\text{X}$.

The source code is hosted on <https://github.com/nuaatug/nuaathesis>, feedback, issues and pull requests are always welcomed.

1.1 Setup $\text{L}\text{A}\text{T}\text{E}\text{X}$ Environment

$\text{N}\text{U}\text{A}^2\text{ T}\text{H}\text{E}\text{S}\text{I}\text{S}$ requires some packages which are not included in basic/minimum $\text{L}\text{A}\text{T}\text{E}\text{X}$ installation. Here are some tips to install the depended packages:

- **MiKTeX** it will install missing packages when compiling the document. If you have trouble downloading the missing packages, please change the mirror server, or wait for another day, good luck :)
- **TeX Live** please install the following collections: langchinese, latexextra, science, pictures, fontsextra. Check out `.ci/install.bat` or `.ci/install.sh`, which tries to automate the process for you.

For Windows users, please definitely check out chapter 2 (in `windows.tex`).

1.2 Compile Template

Skip this section if you already have `nuaathesis.cls`.

Run `build.bat` (Windows) or `build.sh` (others), it will extract the document class `*.cls` and build the document `*.pdf`.

1.3 Prepare Thesis

This document is also written with $\text{N}\text{U}\text{A}^2\text{ T}\text{H}\text{E}\text{S}\text{I}\text{S}$. It is highly recommended to start with compiling this document and adapt it into your thesis.

Please make sure that the thesis directory contains the following files. If any of them is missing, please copy it from the root directory of the template.

- `nuaathesis.cls`: document class;
- `nuaathesis.bst`: biber style;
- `logo/`: folder, contains some artworks for cover and header.

You should change your editor's options to compile the thesis with `latexmk`, here are some instructions for a few editors.

1.3.1 Using TeXstudio

1. Open the root file `bachelor.tex` or `master.tex`;
2. Open Options menu > Configure TeXstudio dialog;
3. Navigate to Build on the left, change Default Compiler to `Latexmk`
4. Save and enjoy.

1.3.2 Using vscode

1. Open the directory with your thesis;
2. Install the extension named `LaTeX Workshop`;
3. Open the root file `bachelor.tex` or `master.tex`, delete the unused one;
4. Build with `LaTeX Workshop`.

1.4 Modify Thesis

Here is the list of files that you need to modify to adapt it into your thesis:

- `bachelor.tex` or `master.tex`: the root file
- `global.tex`: basic information for cover and abstract, import packages, define macros
- `content/`: main matters here, usually one for each chapter
- `bib/`: biber database

1.5 Disclaimer

This is UNOFFICIAL \LaTeX thesis template for NUAA. Since format specification on English thesis has never been published, nor has this template received official certification, there is the risk that the thesis format might not be accepted.

The story is almost the same as the Chinese ones. We try our best to match N\LaTeX^2 THESIS with the (Chinese only) official Word template, but we cannot guarantee the correct format.

Chapter 2 Windows TIPS

2.1 Install Simplified Chinese Fonts

Some document will not compile without simplified Chinese fonts from Windows. If \LaTeX cannot find files such as `simsun.ttc`, `simhei.ttf`, you can work around with it by adding `fontset=fandol` to the template arguments, or install the simplified Chinese fonts with the following steps.

1. Open the Start menu, launch Windows PowerShell with administrator privilege,
2. Paste following commands:

```
1 Set-Service BITS -StartupType Automatic; Start-Service BITS
2 Set-Service wuauserv -StartupType Automatic; Start-Service wuauserv
3 Import-Module Dism
4 Get-WindowsCapability -Online | where { $_.Name -match "Font" -and $_.Name -
  match "Hans" } | Add-WindowsCapability -Online
```

2.2 Using MikTeX

MikTeX is an easy-to-use \LaTeX environment, which can install missing packages automatically. But there are some bugs. Here is the recommended steps to avoid them:

1. Download the installer from <https://miktex.org/download>,
2. Launch the installer,
3. When choosing “Installation Scope”, make sure to choose “Install MiKTeX only for me”, there are some privilege bugs with system-wide installation,
4. Finish the installation
5. Close MikTeX consoles before compiling documents.

There are MikTeX mirrors in China, but they might be temporarily disabled/removed because of out-of-date synchronization. Choose Japan/USA mirrors, or try again another day.

Chapter 3 INTRODUCTION

3.1 Theorem Environment

Please define theorems with following macros in `global.tex`:

- `\nuaatheoremchapu`, the suffix stands for CHAPter Unified, it produces two-level unique numbering (recommended?)
- `\nuaatheoremchap`, the suffix stands for CHAPter, it produces regular two-level numbering
- `\nuaatheoremg`, the suffix stands for Global, it produces one-level numbering

Here is the Definition 3.1.

Definition 3.1: *Bonus points are extra gains.*

3.2 Using Figure

Take a look at the figure below, and the table of figures for the Figure 3.1.

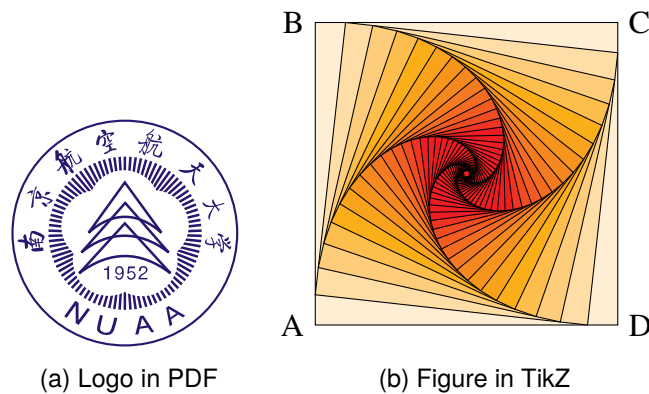


Figure 3.1 This is a figure

3.3 Using Table

Never underestimate the power of crowd (in bus/metro) as shown in Table 3.1.

Table 3.1 City with large population (source: Wikipedia)

City	Population
Mexico City	20,116,842
Shanghai	19,210,000
Peking	15,796,450
Istanbul	14,160,467

3.4 Using Proof

Proof: It is impossible to separate a cube into two cubes, or a fourth power into two fourth powers, or in general, any power higher than the second, into two like powers.

I have discovered a truly marvelous proof of this, which this margin is too narrow to contain. □

3.5 Using Reference

Cite one paper^[1], or multiple^[2–4].

Here is inline cited paper[5], and another paper[6–8].

3.6 Organization of the Thesis

The organization of this thesis is as follows.

Bibliography

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Bibliography

[1] here is the hand-coded reference

[2] do NOT use hand-coded reference, unless `biber` does not work for your thesis

[3] you cannot cite in the same way as `biber`, but `\label` and `\ref` still work

[4] here is an example:

[5] KANAMORI H. Shaking without quaking[J]. Science, 1998, 279(5359): 2063.

Cite example: Don't write like this [1], write that^[5] instead.

Acknowledge

Thanks for reading, and have a nice day.