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南京航空航天大学

毕业论文

题　目　"How to" Write *Thesis* in English with NUAA Thesis

NUAA Thesis 英文论文示例

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本人郑重声明：所呈交的毕业论文（题目：“How to” Write *Thesis* in English with NUAA^2 Thesis）是本人在导师的指导下独立进行研究所取得的成果。尽本人所知，除了毕业论文中特别加以标注引用的内容外，本毕业论文不包含任何其他个人或集体已经发表或撰写的成果作品。

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NUAA² Thesis 英文论文示例

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

“How to” Write *Thesis* in English with NUAA² Thesis

Abstract

In this document, we will demonstrate how to write thesis with NUAA² 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

Welcome to NUA^2 Thesis, a LaTeX thesis template with English support for foreign language college and/or international students. We assume that you are familiar with writing articles in LaTeX.

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

1.1 Setup LaTeX Environment

NUA^2 Thesis requires some packages which are not included in basic/minimum LaTeX 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 NUA^2 Thesis. 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 Disclamer

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 NUAA^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:

```
Set-Service BITS -StartupType Automatic; Start-Service BITS
Set-Service wuauserv -StartupType Automatic; Start-Service wuauserv
Import-Module Dism
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`:

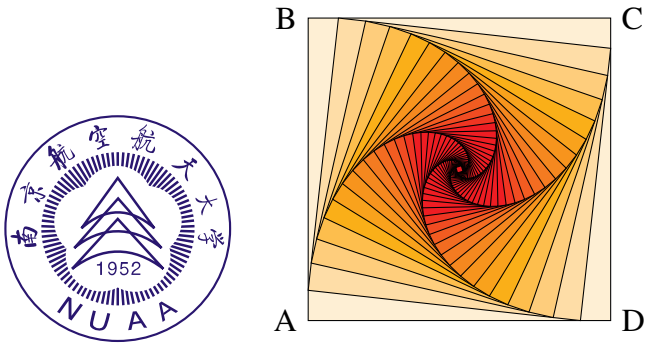
- `\nuaatheoremchapu`, the suffix stands for CHAPter Unified, it produces two-level unique numbering (recommended?)
- `\nuaatheoremchap`, the suffix stands for CHAPter, it produces regular two-level numbering
- `\nuaatheoremg`, the suffix stands for Global, it produces one-level numbering

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.



(a) Logo in PDF (b) Figure in TikZ

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.