

# A Report Template for Huazhong University of Science and Technology: the hustreport class \*

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\*This document corresponds to hustreport.cls v1.0, dated 2013/07/01.

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# I Introduction

This is a report template for [Huazhong University of Science & Technology](#). 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](#).

中文使用说明见 [Part II](#)。

English version instruction is in [Part III](#).

## II 中文使用说明

### 1 使用必要条件

1. 安装最新版本的 **TeXLive** (推荐) 或 **MiKTeX**。因为未及时更新的宏包可能存在未修复的 **bug**，请确保所有宏包都更新至最新。
2. 安装如下中文字体<sup>1</sup>:
  - a) AdobeSongStd-Light
  - b) AdobeKaitiStd-Regular
  - c) AdobeHeitiStd-Regular
  - d) AdobeFangsongStd-Regular



如果使用 LuaTeX，安装字体之后需运行命令 `mkluatexfontdb` 生成字体索引。

### 2 安装

#### 2.1 安装到本地

使用如下命令即可安装本模板到本地：

```
make install
```

如需卸载，则使用如下命令：

```
make uninstall
```

对于没有安装 **Make** 的 **Windows** 系统用户，可以使用如下命令安装：

```
makewin32.bat install
```

如需卸载，则使用如下命令：

```
makewin32.bat uninstall
```

虽然 `makewin32.bat` 表现与 **Makefile** 极其相似，但是还是强烈建议你安装 **Make**，对于 **Windows** 用户可以在[这里](#)下载。

---

<sup>1</sup>本模板所用到的英文字体 **Tex Gyre Termes**，**Droid Sans** 和 **CMU Typewriter Text** 均默认安装于 **TeXLive** 和 **MiKTeX** 中。

## 2.2 免安装使用

如果你希望临时使用本模板，而非安装到本地供长期使用。使用如下命令解压模板文件：

```
make unpack
```

对于没有安装 Make 的 Windows 系统用户，则使用如下命令解压：

```
makewin32.bat unpack
```

再将 `hustreport` 目录下的如下文件拷贝到你  $\text{T}_{\text{E}}\text{X}$  工程根目录下即可：

- `hustreport.cls`
- `hust-title.eps`
- `hust-title.pdf`

## 3 基本用法



本文档只能使用  $\text{X}_{\text{E}}\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$  或  $\text{LuaL}_{\text{A}}\text{T}_{\text{E}}\text{X}$ （推荐）编译。

在源文件开头处选择加载本文档类型，即可使用本模板，如下所示：

```
\documentclass[language=chinese]{hustreport}
```

### 3.1 文档类型选项

加载本文档类型时，有如下三个选项提供选择。

---

**format**    `format =  $\langle$ draft | final $\rangle$`

---

提交草稿选择 `draft` 选项，提交最终版选 `final` 选项。其中草稿正文页包括页眉（“华中科技大学研究生院”）、页眉修饰线（单线）、页脚（页码）和页脚修饰线（单线）。而最终版正文页不包括页眉、页眉修饰线和页脚修饰线，仅包含页脚（页码）。如果不指定，默认设置为 `final`。

---

**category**    `category =  $\langle$ none | literature-survey | thesis-proposal | academic-report | midterm-progress | practice $\rangle$`

---

指定报告种类，它将通过设置字段 `\HUST@categoryname` 来影响封面处的标题。各个不同的选项产生的效果见表 1。你也可以通过命令 `\categoryname` 设置该字段。如果不指定，默认设置为 `none`。

---

**language**    `language =  $\langle$ chinese | english $\rangle$`

---

指定论文语言。如果不指定，默认设置为 `chinese`。

Table 1: category 选项的作用

选项	中文环境下字段 <code>\HUST@categoryname</code>	英文环境下字段 <code>\HUST@categoryname</code>
<code>none</code>		
<code>literature-survey</code>	文献综述	Literature Survey
<code>thesis-proposal</code>	选题	Thesis Proposal
<code>academic-report</code>	学术报告	Academic Report
<code>midterm-progress</code>	论文中期进展	Midterm Progress Report
<code>practice</code>	实践环节	Practice Report

### 3.2 基本字段设置

模板中定义一些命令用于设置文档中的字段。

---

`\title`    `\title{<title>}`

---

用于设定标题。

---

`\author`    `\author{<author>}`

---

用于设定作者名。

---

`\major`    `\major{<major>}`

---

用于设定专业。

---

`\advisor`    `\advisor{<advisor>}`

---

用于设定导师。

---

`\department`    `\department{<department>}`

---

用于设定院系。

---

`\stuno`    `\stuno{<student id>}`

---

用于设定学号。

---

`\categoryname`    `\categoryname{<category name>}`

---

用于设定封面处的文档种类。

---

`\abstract`    `\abstract{<abstract>}`

---

用于设定摘要。

---

`\keywords`    `\keywords{<keywords>}`

---

用于设定关键字。

### 3.3 其它基本命令

下面来介绍其它基本命令。

---

<code>\frontmatter</code>	这一组命令用于设定文档的状态、改变样式,其具体使用见简单示例。 <code>\frontmatter</code>
<code>\mainmatter</code>	用在文档最开始,表明文档的前言部分(如封面,摘要,目录等)的开始。
<code>\backmatter</code>	<code>\mainmatter</code> 表示文档正文的开始。 <code>\backmatter</code> 表示文档正文的结束。

---

---

<code>\maketitle</code>	<code>\maketitle</code> 和 <code>\makecover</code> 作用相同,用于生成封面和版权页面。
<code>\makecover</code>	

---

---

<code>\makeabstract</code>	用于生成摘要页面。
----------------------------	-----------

---

---

<code>\tableofcontents</code>	用于生成目录。
-------------------------------	---------

---

<code>ack</code>	<code>ack</code> 环境用于致谢页面。使用方法如下:
------------------	-----------------------------------

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

---

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

---

用于生成参考文献。

<code>appendix</code>	<code>appendix</code> 环境用于附录环境。你可以将附录置于 <code>appendix</code> 环境中,如:
-----------------------	--

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

---

<code>\appendix</code>	或者使用 <code>\appendix</code> 代表后文均为附录,如:
------------------------	---

---

```
\appendix
<content>
```

---

<code>\listoffigures</code>	这两个命令分别用于生成图片和表格索引,可以根据要求在论文前言中使用或
<code>\listoftables</code>	附录中使用。

---

<code>publications</code>	<code>publications</code> 环境用于已发表论文页面。一般用于附录中。使用上同 <code>enumerate</code> 环境。如下:
---------------------------	--



```

\begin{publications}
  \item <thesis>
  <...>
\end{publications}

```

---

```
\TurnOffTabFontSetting
```

```
\TurnOnTabFontSetting
```

---

因为模板中设定了表格的行距和字号，使得使用中无法临时自定义表格的行距和字号。故提供两个命令用于关闭和开启默认表格的行距和字号设置。比如你如果需要输出一个自己定义字号的表格，可以使用如下示例：

```

\begin{group}
\TurnOffTabFontSetting
\footnotesize % 设置字号
\begin{tabular}{...}
  <content>
\end{tabular}
\TurnOnTabFontSetting
\end{group}

```

---

```
\email \email{<Email Address>}
```

---

用于生成邮箱地址。如`\email{name@example.com}`会生成如下效果的地址：  
**name@example.com**。

## 4 简单示例

如下为一个使用本模板的简单示例。更完整的例子请见 `hustreport-zh-example.tex` 文件，其效果见 `hustreport-zh-example.pdf`。

---

```

1 \documentclass[category=practice,language=chinese]{hustreport}
2
3 \stuno{你的学号}
4 \title{标题}
5 \author{作者名}
6 \major{专业}
7 \advisor{导师}
8 \department{院系}
9
10 \abstract{摘要}
11 \keywords{关键字}
12
13 \begin{document}

```

```

14
15 \frontmatter
16 \maketitle
17 \makeabstract
18 \tableofcontents
19 \listoffigures
20 \listoftables
21 \mainmatter
22
23 %% 正文
24
25 \backmatter
26
27 \begin{ack}
28 %% 致谢
29 \end{ack}
30 \bibliography{参考文献.bib文件}
31
32 \appendix
33
34 \begin{publications}
35 %% 发表过的论文列表
36 \end{publications}
37
38 %% 附录剩余部分
39
40 \end{document}

```

---

## 5 预设宏包介绍

本模板中预设了一些宏包，下面对其进行简单介绍。

- **algorithm2e** 算法环境。
- **enumitem** 自定义列表环境的式样。
- **fancyenum** 用于将大数每三位断开。
- **listings** 代码环境。如需更好的代码高亮可以使用 **minted** 宏包。
- **longtable** 跨页的超长表格环境。
- **ltxtable** **longtable** 环境和 **tabularx** 环境的合并。
- **multirow** 用于表格中合并行。
- **overpic** 用于在图片上层叠其他内容。
- **tabularx** 扩展到表格环境。
- **xy-pic** 用于绘制简单图形。如需更高级功能可以使用 **tikz** 宏包。
- **zhnumber** 用于生成中文数字。

## 6 高级设置

### 6.1 切换字体

模板正文字体为宋体 (AdobeSongStd-Light)，同时我们提供如下命令切换中文字体：

---

`\HEI` `{\HEI <content>}`

`\hei` `\hei{<content>}`

---

切换字体为黑体 (AdobeHeitiStd-Regular)。

---

`\KAI` `{\KAI <content>}`

`\kai` `\kai{<content>}`

---

切换字体为楷体 (AdobeKaitiStd-Regular)。

---

`\FANGSONG` `{\FANGSONG <content>}`

`\fangsong` `\fangsong{<content>}`

---

切换字体为仿宋 (AdobeFangsongStd-Regular)。

如果需要加载其他字体，请参阅宏包 **fontspec**，宏包 **xeCJK** (对于 Xe<sub>La</sub>TeX) 和宏包 **luatex-j**a (对于 Lua<sub>La</sub>TeX) 的文档。

### III English Version Instruction

## 1 Requirement

Install the latest version of **TeXLive**(Recommend) or **MiKTeX**. Please ensure that all the packages are up-to-date.

## 2 Installation

### 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. Run below command to unpack the package.

```
make unpack
```

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

```
makewin32.bat unpack
```

Then copy the following files from directory `hustreport` into your  $\text{\TeX}$  project root directory.

- hustreport.cls
- hust-title.eps
- hust-title.pdf

## 3 Usage



*This template can only be compiled by X<sub>Y</sub>LaTeX or LuaLaTeX (Recommend).*

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

```
\documentclass[language=english]{hustreport}
```

### 3.1 Option

There're three options available when use this template.

---

**format**    format =  $\langle draft | final \rangle$

---

If format is set to final, the header will be removed. This option is only valid if language is set to chinese. The default value is final.

---

**language**    language =  $\langle chinese | english \rangle$

---

Set what language is used in the document. The default value is chinese.

---

**category**    category =  $\langle none | literature-survey | thesis-proposal | academic-report | midterm-progress | practice \rangle$

---

Set the category of the report. It will influence the title of document, see Table 2. You also can set it manually by the command `\categoryname`. The default value is none.

### 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.

Table 2: Title under different category option

Option	In Chinese mode <code>\HUST@categoryname</code>	In English mode <code>\HUST@categoryname</code>
none		
literature-survey	文献综述	Literature Survey
thesis-proposal	选题	Thesis Proposal
academic-report	学术报告	Academic Report
midterm-progress	论文中期进展	Midterm Progress Report
practice	实践环节	Practice Report

---

`\major`    `\major{\<major>}`

Set your major.

---

`\advisor`    `\advisor{\<advisor>}`

Set your advisor.

---

`\department`    `\department{\<department>}`

Set your department.

---

`\stuno`    `\stuno{\<student id>}`

Set your student ID.

---

`\categoryname`    `\categoryname{\<category name>}`

Set the category name in the titlepage.

---

`\abstract`    `\abstract{\<abstract>}`

Put your abstract.

---

`\keywords`    `\keywords{\<keywords>}`

Put your keywords.

### 3.3 Other commands

---

`\frontmatter`    Used to determine the different part of document. You can see the example

`\mainmatter`    at [section 4](#).

---

`\backmatter`

---

<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>	The <code>ack</code> environment is used to create acknowledge page.
------------------	--

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

---

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

---

Used to create bibliography page.

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

---

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

```
\begin{publications}
  \item <thesis>
  <...>
\end{publications}
```

---

`\TurnOffTabFontSetting`  
`\TurnOnTabFontSetting`

---

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:

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

---

`\email` `\email{<Email Address>}`

---

A command to display email address. For example, `\email{name@example.com}` would look like this: `name@example.com`.

## 4 Simple example

Below is a simple example of using this template. For a complete example see `hustreport-en-example.tex` which will generate `hustreport-en-example.pdf`.

```
1 \documentclass[category=practice,language=english]{hustreport}
2
3 \title{your title}
4 \author{your name}
5 \stuno{your student number}
6 \advisor{your advisor}
7 \major{your major}
8 \department{your department}
9
10 \abstract{the abstract}
11 \keywords{the keywords}
12
13 \begin{document}
14
15 \frontmatter
16 \maketitle
17 \makeabstract
```



```

18 \tableofcontents
19 \listoffigures
20 \listoftables
21 \mainmatter
22
23 %% main body
24
25 \backmatter
26
27 \begin{ack}
28 %% acknowledge
29 \end{ack}
30 \bibliography{.bib file}
31
32 \appendix
33
34 \begin{publications}
35 %% your publications
36 \end{publications}
37
38 %% rest of appendix
39
40 \end{document}

```

---

## 5 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**.

## IV Implementation

```
1 <*class>
2 \RequirePackage{ifthen}
```

### 1 Process Options

Use **xkeyval** to process options.

```
3 \RequirePackage{xkeyval}
4
5 Option format.
6
7 \newif\ifHUST@finalformat
8 \HUST@finalformattrue
9 \DeclareOptionX{format}[final]{
10   \ifthenelse{\equal{#1}{final}}{
11     \HUST@finalformattrue
12   }{
13     \ifthenelse{\equal{#1}{draft}}{
14       \HUST@finalformatfalse
15     }{
16       \ClassError{hustreport}
17       {Option format can only be 'final' or 'draft'}
18       {Try to remove option format^^J}
19     }
20   }
21 }
```

Option language.

```
19 \gdef\HUST@language{chinese}
20 \DeclareOptionX{language}[chinese]{
21   \ifthenelse{\equal{#1}{chinese} \OR \equal{#1}{english}}{
22     \gdef\HUST@language{#1}
23   }{
24     \ClassError{hustreport}
25     {Option language can only be 'chinese' or 'english'}
26     {Try to remove option language^^J}
27   }
28 }
```

Option degree.

```
29 \gdef\HUST@degree{ms}
```

```

30 \DeclareOptionX{degree}[ms]{
31   \ifthenelse{\equal{#1}{ms} \OR \equal{#1}{me} \OR \equal{#1}{phd}}{
32     \gdef\HUST@degree{#1}
33   }{
34     \ClassError{hustreport}
35       {Option degree can only be 'ms', 'me' or 'phd'}
36       {Try to remove option degree^^J}
37   }
38 }

    Option category.
39 \gdef\HUST@category{none}
40 \DeclareOptionX{category}[none]{
41   \ifthenelse{\equal{#1}{none} \OR \equal{#1}{literature-survey} \OR \equal{#1}{the-
42     sis-proposal} \OR \equal{#1}{academic-report} \OR \equal{#1}{midterm-progress} \OR \
43     tice}}{
44     \gdef\HUST@category{#1}
45   }{
46     \ClassError{hustreport}
47       {Option category can only be 'none', 'literature-survey', 'thesis-proposal', 'ac
48       tice}
49 }

    Process options and load class book.
49 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
50 \ProcessOptionsX
51 \LoadClass[12pt, a4paper, openany]{book}

```

## 2 Check Engine

Check engine, only  $\text{\LaTeX}$  and  $\text{\LuaTeX}$  are supported.

```

52 \RequirePackage{iftex}
53 \ifXeTeX\else
54   \ifLuaTeX\else
55     \begingroup
56       \errorcontextlines=-1\relax
57       \newlinechar=10\relax
58       \errmessage{^^J
59         *****^^J
60         * XeTeX or LuaTeX is required to compile this document.^^J
61         * Sorry!^^J

```

```

62      *****~J
63      }%
64      \endgroup
65      \fi
66      \fi

```

### 3 Font Setting

Set font used in document. Firstly, it's font setting for English font under english mode. We use **fontspec** package to handle font. We choose Tex Gyre Termes, Droid Sans and CMU Typewriter Text as document main font, sans font and mono font.

```

67 \ifthenelse{\equal{\HUST@language}{english}}{
68     \RequirePackage{fontspec}
69     \setmainfont[
70         Ligatures={Common,TeX},
71         Extension=.otf,
72         UprightFont=*-regular,
73         BoldFont=*-bold,
74         ItalicFont=*-italic,
75         BoldItalicFont=*-bolditalic]{texgyretermes}
76     \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
77     \setmonofont{CMU Typewriter Text}
78     \defaultfontfeatures{Mapping=tex-text}

```

Now let's set the Chinese font commands into empty, when document is under english mode.

```

79     \let\HEI\relax
80     \let\KAI\relax
81     \let\FANGSONG\relax
82     \newcommand{\hei}[1]{#1}
83     \newcommand{\kai}[1]{#1}
84     \newcommand{\fangsong}[1]{#1}
85 }{}

```

Below is the font setting under chinese mode. We chooses the same English font as under english mode. We use **xecjk** package (for X<sub>Y</sub>LaTeX) or **luatex-jafont** package (for LuaLaTeX, recommend) to handle Chinese font. We will use font: AdobeSongStd-Light, AdobeKaitiStd-Regular, AdobeHeitiStd-Regular and AdobeFangsongStd-Regular.

```

86 \ifthenelse{\equal{\HUST@language}{chinese}}{

```

```

87 \ifXeTeX % XeTeX 下使用 fontspec + xeCJK 处理字体
88 % 英文字体
89 \RequirePackage{fontspec}
90 \RequirePackage{xunicode}
91 \setmainfont[
92     Ligatures={Common,TeX},
93     Extension=.otf,
94     UprightFont=*-regular,
95     BoldFont=*-bold,
96     ItalicFont=*-italic,
97     BoldItalicFont=*-bolditalic]{texgyretermes}
98 \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
99 \setmonofont{CMU Typewriter Text}
100 \defaultfontfeatures{Mapping=tex-text}
101 % 中文字体
102 \RequirePackage[CJKmath]{xeCJK}
103 \setCJKmainfont[
104     BoldFont={Adobe Heiti Std},
105     ItalicFont={Adobe Kaiti Std}]{Adobe Song Std}
106 \setCJKsansfont{Adobe Kaiti Std}
107 \setCJKmonofont{Adobe Fangsong Std}
108 \xeCJKsetup{PunctStyle=kaiming}
109
110 \newcommand\ziju[2]{\renewcommand{\CJKglue}{\hskip #1} #2}}

\HEI
111 \newCJKfontfamily\HEI{Adobe Heiti Std}

\KAI
112 \newCJKfontfamily\KAI{Adobe Kaiti Std}

\FANGSONG
113 \newCJKfontfamily\FANGSONG{Adobe Fangsong Std}

\hei
114 \newcommand{\hei}[1]{\HEI #1}}

\kai
115 \newcommand{\kai}[1]{\KAI #1}}

\fangsong
116 \newcommand{\fangsong}[1]{\FANGSONG #1}}

```

```

117 \else\fi
118 \ifLuaTeX % LuaTeX 下使用 luatex-jā 处理字体 [推荐]
119 \RequirePackage{luatexja-fontspec}
120 % 英文字体
121 \setmainfont[Ligatures={Common,TeX}]{Tex Gyre Termes}
122 \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
123 \setmonofont{CMU Typewriter Text}
124 \defaultfontfeatures{Mapping=tex-text,Scale=MatchLowercase}
125 % 中文字体
126 \setmainfont[
127 BoldFont={AdobeHeitiStd-Regular},
128 ItalicFont={AdobeKaitiStd-Regular}]{AdobeSongStd-Light}
129 \setsansfont{AdobeKaitiStd-Regular}
130 \defaultjfontfeatures{JFM=kaiming}
131
132 \newcommand\ziju[2]{\vbox{\ltjsetparameter{kanjiskip=#1} #2}}

\HEI
133 \newjfontfamily\HEI{AdobeHeitiStd-Regular}

\KAI
134 \newjfontfamily\KAI{AdobeKaitiStd-Regular}

\FANGSONG
135 \newjfontfamily\FANGSONG{AdobeFangsongStd-Regular}

\hei
136 \newcommand{\hei}[1]{\jfontspec{AdobeHeitiStd-Regular} #1}}

\kai
137 \newcommand{\kai}[1]{\jfontspec{AdobeKaitiStd-Regular} #1}}

\fangsong
138 \newcommand{\fangsong}[1]{\jfontspec{AdobeFangsongStd-Regular} #1}}
139 \else\fi

Generate Chinese number using zhnumber.

140 \RequirePackage{zhnumber}
141 \def\CJKnumber#1{\zhnumber{#1}} % 兼容 CJKnumb
142 }{}

```

## 4 Basic Format

Use **interfaces** package to handle font size and line spread. We set global line spread to 1.2.

```
143 \RequirePackage{interfaces-Latex}
144 \changeFont{linespread=1.2}
```

Use **geometry** package to handle paper page.

```
145 \RequirePackage{geometry}
146 \geometry{
147     a4paper,
148     top=1.2in,
149     bottom=1.2in,
150     left=1in,
151     right=1in,
152     includeFoot
153 }
154 \pdfpagewidth=\paperwidth
155 \pdfpageheight=\paperheight
```

Indent of paragraph and skip between paragraphs.

```
156 \RequirePackage{indentfirst}
157 \setlength{\parindent}{2em}
158 \setlength{\parskip}{0pt plus 2pt minus 1pt}
```

Packages to handle color.

```
159 \RequirePackage{color}
160 \RequirePackage[table]{xcolor}
```

Use **hyperref** package to generate cross-reference link.

```
161 \RequirePackage[unicode]{hyperref}
162 \hypersetup{
163     bookmarksnumbered=true,
164     bookmarksopen=true,
165     bookmarksopenlevel=1,
166     breaklinks=true,
167     colorlinks=true,
168     allcolors=black,
169     linktoc=all,
170     plainpages=false,
171     pdfpagelabels=true,
172     pdfstartview={XYZ null null 1},
```

```

173 pdfinfo={Template.Info={hustreport.cls v1.0 2013/07/01, Copyright (C) 2013 by Xu C
treport}}
174 }

```

## 5 Load Packages

Load packages for math.

```

175 \RequirePackage{amsmath,amssymb,amsfonts}
176 \RequirePackage[amsmath,amsthm,thmmarks,hyperref,thref]{ntheorem}
177 \RequirePackage{fancynum}
178 \setfnumgsym{\,,}
179 \RequirePackage[lined,boxed,linesnumbered,ruled,vlined,algochapter]{algorithm2e}

```

Load packages for picture.

```

180 \RequirePackage[all]{xy}
181 \RequirePackage{overpic}
182 \RequirePackage{graphicx,caption,subcaption}

```

Load packages for table.

```

183 \RequirePackage{array}
184 \RequirePackage{multirow,tabularx,ltxttable}

```

Load package for code highlight. Here we use **listings** to highlight the code. But if you need more features, use **minted**.

```

185 \RequirePackage{listings}

```

Load package for bibliography cite style.

```

186 \RequirePackage[numbers,square,comma,sort&compress]{natbib}

```

Other packages for style setting.

```

187 \RequirePackage{titlesec}
188 \RequirePackage{titletoc}
189 \RequirePackage{tocvsec2}
190 \RequirePackage[inline]{enumitem}
191 \RequirePackage{fancyhdr}
192 \RequirePackage{afterpage}
193 \RequirePackage{datenum}
194 \RequirePackage{etoolbox}
195 \RequirePackage{appendix}
196 \RequirePackage[titles]{tocloft}
197 \RequirePackage{xstring}
198 \RequirePackage{perpage}

```



## 6 Variables Setting

**\title** A command to set the title.

```
199 \def\title#1{\gdef\HUST@title{#1}\hypersetup{pdftitle={#1}}}  
200 \title{}
```

**\author** A command to set the author.

```
201 \def\author#1{\gdef\HUST@author{#1}\hypersetup{pdfauthor={#1}}}  
202 \author{}
```

**\major** A command to set the major.

```
203 \def\major#1{\gdef\HUST@major{#1}}  
204 \major{}
```

**\advisor** A command to set the advisor.

```
205 \def\advisor#1{\gdef\HUST@advisor{#1}}  
206 \advisor{}
```

**\department** A command to set the department.

```
207 \def\department#1{\gdef\HUST@department{#1}}  
208 \department{}
```

**\stuno** A command to set student number.

```
209 \def\stuno#1{\gdef\HUST@stuno{#1}}  
210 \stuno{}
```

**\categoryname** A command to set the categoryname.

```
211 \def\categoryname#1{\gdef\HUST@categoryname{#1}}  
212 \categoryname{}
```

**\abstract** A command to set the abstract.

```
213 \long\def\abstract#1{\long\gdef\HUST@abstract{#1}}  
214 \abstract{}
```

**\keywords** Commands to set the keywords.

```
215 \def\keywords#1{\gdef\HUST@keywords{#1}\hypersetup{pdfkeywords={#1}}}  
216 \keywords{}
```

## 7 Localization

Chinese localization.<sup>2</sup>

```
217 \ifthenelse{\equal{\HUST@language}{chinese}}{
218     \def\indexname{索引}
219     \def\figurename{图}
220     \def\tablename{表}
221     \def\listingscaption{代码}
222     \def\bibname{参考文献}
223     \def\contentsname{目\hspace{1em}录}
224     \def\contentsnamenospace{目录}
225     \def\appendixname{附录}
226     \def\HUST@listfigurename{插图索引}
227     \def\HUST@listtablename{表格索引}
228     \def\equationautorefname{公式}
229     \def\footnoteautorefname{脚注}
230     \def\itemautorefname~#1\null{第~#1~项\null}
231     \def\figureautorefname{图}
232     \def\tableautorefname{表}
233     \def\appendixautorefname{附录}
234     \expandafter\def\csname\appendixname autorefname\endcsname{\ap-
pendixname}
235     \def\chapterautorefname~#1\null{第\zhnumber{#1}章\null}
236     \def\sectionautorefname~#1\null{#1~小节\null}
237     \def\subsectionautorefname~#1\null{#1~小节\null}
238     \def\subsubsectionautorefname~#1\null{#1~小节\null}
239     \def\FancyVerbLineautorefname~#1\null{第~#1~行\null}
240     \def\pageautorefname~#1\null{第~#1~页\null}
241     \def\lstlistingautorefname{代码}
242     \def\definitionautorefname{定义}
243     \def\propositionautorefname{命题}
244     \def\lemmaautorefname{引理}
245     \def\theoremautorefname{定理}
246     \def\axiomautorefname{公理}
247     \def\corollaryautorefname{推论}
248     \def\exerciseautorefname{练习}
249     \def\exampleautorefname{例}
250     \def\proofautorefname{证明}
```

---

<sup>2</sup>The autorefname Reference:<http://tex.stackexchange.com/questions/52410/how-to-use-the-command-autoref-to-implement-the-same-effect-when-use-the-command>

```

251 \SetAlgorithmName{算法}{算法}{算法索引}
252 \SetAlgoProcName{过程}{过程}
253 \SetAlgoFuncName{函数}{函数}
254 \def\AlgoLineautorefname~#1\null{第~#1~行\null}
255 }{}

```

English localization.

```

256 \ifthenelse{\equal{\HUST@language}{chinese}}{}{
257 \def\HUST@listfigurename{List of Figures}
258 \def\HUST@listtablename{List of Tables}
259 \def\equationautorefname{Equation}
260 \def\footnoteautorefname{Footnote}
261 \def\itemautorefname{Item}
262 \def\figureautorefname{Figure}
263 \def\tableautorefname{Table}
264 \def\appendixautorefname{Appendix}
265 \expandafter\def\csname\appendixname autorefname\endcsname{\ap-
pendixname}
266 \def\chapterautorefname{Chapter}
267 \def\sectionautorefname{Section}
268 \def\subsectionautorefname{Subsection}
269 \def\subsubsectionautorefname{Sub-subsection}
270 \def\FancyVerbLineautorefname{Line}
271 \def\pageautorefname{Page}
272 \def\lstlistingautorefname{Code Fragment}
273 \def\definitionautorefname{Definition}
274 \def\propositionautorefname{Proposition}
275 \def\lemmaautorefname{Lemma}
276 \def\theoremautorefname{Theorem}
277 \def\axiomautorefname{Axiom}
278 \def\corollaryautorefname{Corollary}
279 \def\exerciseautorefname{Exercise}
280 \def\exampleautorefname{Example}
281 \def\proofautorefname{Proof}
282 \SetAlgorithmName{Algorithm}{Algorithm}{List of Algorithms}
283 \SetAlgoProcName{Procedure}{Procedure}
284 \SetAlgoFuncName{Function}{Function}
285 \def\AlgoLineautorefname{Line}
286 }

```

Internal variables.

```

287 \def\HUST@headcontent{华中科技大学研究生院}

```

```

288
289 \def\HUST@zhabstractname{摘\hspace{1em}要}
290 \def\HUST@zhabstractnamenospace{摘要}
291 \def\HUST@zhkeywordstitle{关键词: }
292 \def\HUST@enabstractname{Abstract}
293 \def\HUST@enkeywordstitle{Key words:}
294
295 \ifthenelse{\equal{\HUST@language}{chinese}}{
296   \def\HUST@ackname{致\hspace{1em}谢}
297   \def\HUST@acknamenospace{致谢}
298   \def\HUST@publicationtitle{攻读学位期间发表的学术论文}
299 }{
300   \def\HUST@ackname{Acknowledge}
301   \def\HUST@acknamenospace{Acknowledge}
302   \def\HUST@publicationtitle{Publication}
303 }
304
305 \ifthenelse{\equal{\HUST@category}{none}}{
306   \categoryname{ }
307 }{}
308 \ifthenelse{\equal{\HUST@category}{literature-survey}}{
309   \ifthenelse{\equal{\HUST@language}{chinese}}
310     {\categoryname{文献综述}}
311     {\categoryname{Literature Survey}}
312 }{}
313 \ifthenelse{\equal{\HUST@category}{thesis-proposal}}{
314   \ifthenelse{\equal{\HUST@language}{chinese}}
315     {\categoryname{选题}}
316     {\categoryname{Thesis Proposal}}
317 }{}
318 \ifthenelse{\equal{\HUST@category}{academic-report}}{
319   \ifthenelse{\equal{\HUST@language}{chinese}}
320     {\categoryname{学术报告}}
321     {\categoryname{Academic Report}}
322 }{}
323 \ifthenelse{\equal{\HUST@category}{midterm-progress}}{
324   \ifthenelse{\equal{\HUST@language}{chinese}}
325     {\categoryname{论文中期进展}}
326     {\categoryname{Midterm Progress Report}}
327 }{}
328 \ifthenelse{\equal{\HUST@category}{practice}}{

```

```

329 \ifthenelse{\equal{\HUST@language}{chinese}}
330 {\categoryname{实践环节}}
331 {\categoryname{Practice Report}}
332 }{}
333
334 \ifthenelse{\equal{\HUST@language}{chinese}}{
335 \hypersetup{pdfsubject={研究生{\HUST@categoryname}报告}}
336 }{
337 \ifthenelse{\equal{\HUST@categoryname}{}}{
338 \hypersetup{pdfsubject={Postgraduate~Report}}
339 }{
340 \hypersetup{pdfsubject={Postgraduate~\HUST@categoryname}}
341 }
342 }

Set \listfigurename and \listtablename.
343 \def\listfigurename{\HUST@listfigurename}
344 \def\listtablename{\HUST@listtablename}

```

## 8 Style Setting

### 8.1 Equation Style

Allow long equation breaking between lines or pages.

```

345 \allowdisplaybreaks[4]

Set skip between equation and context.
346 \abovedisplayskip=10bp plus 2bp minus 2bp
347 \abovedisplayshortskip=10bp plus 2bp minus 2bp
348 \belowdisplayskip=\abovedisplayskip
349 \belowdisplayshortskip=\abovedisplayshortskip

```

Set equation numbering style.

```

350 \numberwithin{equation}{chapter}

```

### 8.2 Theorem Style

We use **amsthm** to handle the proof environment and use **ntheorem** to handle other theorem environments.

```

351 \theoremnumbering{arabic}
352 \ifthenelse{\equal{\HUST@language}{chinese}}{
353 \theoremseparator{: }

```

```

354 }{
355   \theoremseparator{:}
356 }
357 \theorempreskip{1.2ex plus 0ex minus 1ex}
358 \theorempostskip{1.2ex plus 0ex minus 1ex}
359 \theoremheaderfont{\normalfont\bfseries\HEI}
360 \theoremsymbol{}
361
362 \theoremstyle{definition}
363 \theorembodyfont{\normalfont}
364 \ifthenelse{\equal{\HUST@language}{chinese}}{
365   \newtheorem{definition}{定义}[chapter]
366 }{
367   \newtheorem{definition}{Definition}[chapter]
368 }
369
370 \theoremstyle{plain}
371 \theorembodyfont{\itshape}
372 \ifthenelse{\equal{\HUST@language}{chinese}}{
373   \newtheorem{proposition}{命题}[chapter]
374   \newtheorem{lemma}{引理}[chapter]
375   \newtheorem{theorem}{定理}[chapter]
376   \newtheorem{axiom}{公理}[chapter]
377   \newtheorem{corollary}{推论}[chapter]
378   \newtheorem{exercise}{练习}[chapter]
379   \newtheorem{example}{例}[chapter]
380   \def\proofname{\hei{证明}}
381 }{
382   \newtheorem{proposition}{Proposition}[chapter]
383   \newtheorem{lemma}{Lemma}[chapter]
384   \newtheorem{theorem}{Theorem}[chapter]
385   \newtheorem{axiom}{Axiom}[chapter]
386   \newtheorem{corollary}{Corollary}[chapter]
387   \newtheorem{exercise}{Exercise}[chapter]
388   \newtheorem{example}{Example}[chapter]
389   \def\proofname{\textbf{Proof}}
390 }

```

### 8.3 Floating Objects Style

Set the skip to the context for floating object with argument ‘h’.

```
391 \setlength{\intextsep}{0.7\baselineskip plus 0.1\baselineskip minus 0.1\baselineskip}
```

Set the skip to the context for top or bottom floating object.

```
392 \setlength{\textfloatsep}{0.8\baselineskip plus 0.1\baselineskip minus 0.2\baselineskip}
```

Set the fraction of floating object. Make the fraction less crowded than default value to prevent floating object occupying too much space.

```
393 \renewcommand{\textfraction}{0.15}
394 \renewcommand{\topfraction}{0.85}
395 \renewcommand{\bottomfraction}{0.65}
396 \renewcommand{\floatpagefraction}{0.60}
```

## 8.4 Table Style

`\tabincell` A command make it easier to insert a new table into an existing cell.

```
397 \newcommand{\tabincell}[2]{\begin{tabular}{@{}#1@{}}#2\end{tabular}}
```

To prevent `\cline` breaking page in **longtable** environment, use in this way: `\table content \* \nopagebreak \cline{i-j}`<sup>3</sup>

```
398 \def\@cline#1-#2\@nil{%
399   \omit
400   \@multicnt#1%
401   \advance\@multispan\m@ne
402   \ifnum\@multicnt=\@ne\@firstofone{&\omit}\fi
403   \@multicnt#2%
404   \advance\@multicnt-#1%
405   \advance\@multispan\@ne
406   \leaders\hrule\@height\arrayrulewidth\hfill
407   \cr
408   \noalign{\nobreak\vskip-\arrayrulewidth}}
```

Here we set the global font setting (font size: 11pt and line spread: 1.4) for tables. But first we will declare a variable to determine whether table global font setting is activated.

```
409 \newif\ifHUST@useoldtabular
410 \HUST@useoldtabularfalse
```

**OffTabFontSetting** Use `\TurnOffTabFontSetting` to deactivate global font setting.

```
411 \def\TurnOffTabFontSetting{\HUST@useoldtabulartrue}
```

---

<sup>3</sup>Reference:<http://tex.stackexchange.com/questions/52100/longtable-multirow-problem-with-cline-and-nopagebreak>

`\TurnOnTabFontSetting` Use `\TurnOnTabFontSetting` to activate global font setting.

```
412 \def\TurnOnTabFontSetting{\HUST@useoldtabularfalse}
```

Hook the `tabular`, `tabularx` and `longtable` environment to imply the global font setting.

```
413 \AtBeginEnvironment{tabular}{
```

```
414   \ifHUST@useoldtabular\else
```

```
415     \changeont{size=11pt,linespread=1.4}
```

```
416   \fi
```

```
417 }
```

```
418 \AtBeginEnvironment{tabularx}{
```

```
419   \ifHUST@useoldtabular\else
```

```
420     \changeont{size=11pt,linespread=1.4}
```

```
421   \fi
```

```
422 }
```

```
423 \AtBeginEnvironment{longtable}{
```

```
424   \ifHUST@useoldtabular\else
```

```
425     \changeont{size=11pt,linespread=1.4}
```

```
426   \fi
```

```
427 }
```

## 8.5 Caption Style

Set caption font size as 11pt, use hang format, remove ‘:’ after number and set the skip between context as 12pt.

```
428 \DeclareCaptionFont{HUST@captionfont}{\changeont{size=11pt}}
```

```
429 \DeclareCaptionLabelFormat{HUST@caplabel}{#1~#2}
```

```
430 \captionsetup{
```

```
431   font=HUST@captionfont,
```

```
432   labelformat=HUST@caplabel,
```

```
433   format=hang,
```

```
434   labelsep=quad,
```

```
435   skip=12pt
```

```
436 }
```

Set figure and table numbering style.

```
437 \renewcommand{\thetable}{\arabic{chapter}.\arabic{table}}
```

```
438 \renewcommand{\thefigure}{\arabic{chapter}-\arabic{figure}}
```

## 8.6 Code Highlight Style

```
439 \definecolor{HUST@lstgreen}{rgb}{0,0.6,0}
```



```

440 \definecolor{HUST@lstmauve}{rgb}{0.58,0,0.82}
441
442 \lstset{
443   basicstyle=\footnotesize\ttfamily\changeont{linespread=1}\FANGSONG,
444   keywordstyle=\color{blue}\bfseries,
445   commentstyle=\color{HUST@lstgreen}\itshape\KAI,
446   stringstyle=\color{HUST@lstmauve},
447   showspaces=false,
448   showstringspaces=false,
449   showtabs=false,
450   numbers=left,
451   numberstyle=\tiny\color{black},
452   frame=lines,
453   rulecolor=\color{black},
454   breaklines=true
455 }

```

## 8.7 Section Title Style

Set the numbering depth for section.

```

456 \setcounter{secnumdepth}{3}

```

Chapter title format and spacing setting.

```

457 \titleformat{\chapter}
458 {
459   \bfseries
460   \HEI
461   \centering
462   \changeont{size=18pt}
463 }
464 {
465   \ifthenelse{\equal{\HUST@language}{chinese}}
466   {\zhnumber{\thechapter}}
467   {Chapter~\thechapter}
468 }
469 {1em}
470 {}
471 \titlespacing*{\chapter}{0pt}{0pt}{20pt}

```

Section title format and spacing setting.

```

472 \titleformat*{\section}{\bfseries\HEI\changeont{size=16pt}}
473 \titlespacing*{\section}{0pt}{18pt}{6pt}

```

Subsection tilte format and spacing setting.

```
474 \titleformat*{\subsection}{\bfseries\HEI\changeont{size=14pt}}
475 \titlespacing*{\subsection}{0pt}{12pt}{6pt}
```

Subsubsection tilte format and spacing setting.

```
476 \titleformat*{\subsubsection}{\bfseries\HEI\changeont{size=13pt}}
477 \titlespacing*{\subsubsection}{0pt}{12pt}{6pt}
```

## 8.8 TOC Style

TOC depth.

```
478 \setcounter{tocdepth}{1}
```

TOC right margin.

```
479 \contentsmargin{2.0em}
```

Remove vertical space between two continues chapter entries. <sup>4</sup>

```
480 \newskip\HUST@oldcftbeforechapskip
481 \HUST@oldcftbeforechapskip=\cftbeforechapskip
482 \newskip\HUST@oldcftbeforesecskip
483 \HUST@oldcftbeforesecskip=\cftbeforesecskip
484 \let\HUST@oldl@chapter\l@chapter
485 \let\HUST@oldl@section\l@section
486 \let\HUST@oldl@subsection\l@subsection
487 \def\l@chapter#1#2{\HUST@oldl@chapter{#1}{#2}\cftbeforechapskip=3pt}
488 \def\l@section#1#2{\HUST@oldl@section{#1}{#2}\cftbeforechapskip=\HUST@old-
cftbeforechapskip\cftbeforesecskip=3pt}
489 \def\l@subsection#1#2{\HUST@oldl@subsection{#1}{#2}\cftbeforesecskip=\HUST@old-
cftbeforesecskip}
```

Set LOF LOT style. <sup>5</sup>

```
490 \renewcommand*\cftfigpresnum{\figurename~}
491 \newlength{\HUST@cftfignumwidth@tmp}
492 \settowidth{\HUST@cftfignumwidth@tmp}{\cftfigpresnum}
493 \addtolength{\cftfignumwidth}{\HUST@cftfignumwidth@tmp}
494 \renewcommand{\cftfigaftersnumb}{\quad~}
495 \renewcommand*\cfttabpresnum{\tablename~}
496 \newlength{\HUST@cfttabnumwidth@tmp}
497 \settowidth{\HUST@cfttabnumwidth@tmp}{\cfttabpresnum}
498 \addtolength{\cfttabnumwidth}{\HUST@cfttabnumwidth@tmp}
499 \renewcommand{\cfttabaftersnumb}{\quad~}
```

---

<sup>4</sup>Reference:<http://tex.stackexchange.com/questions/89103/remove-vertical-space-between-two-chapters-in-table-of-contents-in-latex>

<sup>5</sup>Reference:<http://www.latex-community.org/viewtopic.php?f=5&t=1838>

## 8.9 Head & Foot Style

```
500 \let\ps@plain\ps@fancy
501 \pagestyle{fancy}
502 \fancyhf{}
503 \renewcommand{\headrulewidth}{0pt}
504 \renewcommand{\footrulewidth}{0pt}
505 \ifthenelse{\equal{\HUST@language}{english}}{
506   \fancyfoot[C]{\thepage}
507 }{
508   \ifHUST@finalformat
509     \fancyfoot[C]{\thepage}
510   \else
511     \fancyhead[C]{
512       \hei{\changeont{size=14pt}\HUST@headcontent}
513       \vskip 0.3\normalbaselineskip
514       \hrule width \textwidth height 0.4pt
515     }
516     \fancyfoot[C]{
517       \hrule width \textwidth height 0.4pt
518       \vskip 0.3\normalbaselineskip
519       \thepage
520     }
521   \fi
522 }
```

## 8.10 List Environment Style

```
523 \setlist{noitemsep,partopsep=0pt,topsep=.8ex}
524 \setlist[1]{labelindent=\parindent}
525 \setlist[enumerate,1]{label=\arabic*.,ref=\arabic*}
526 \setlist[enumerate,2]{label*=\arabic*,ref=\theenumi.\arabic*}
527 \setlist[enumerate,3]{label=\emph{\alph*}),ref=\theenumii\emph{\alph*}}
528 \setlist[description]{font=\bfseries\HEI}
```

## 8.11 Footnote Style

```
529 \MakePerPage{footnote}
```

## 9 Specical Page

\frontmatter

\mainmatter 530 \def\frontmatter{

\backmatter

```

531 \clearpage
532 \@mainmatterfalse
533 \pagenumbering{Roman}
534 }
535 \def\mainmatter{
536 \clearpage
537 \@mainmattertrue
538 \pagenumbering{arabic}
539 }
540 \def\backmatter{
541 \clearpage
542 \@mainmatterfalse
543 \settocdepth{chapter}
544 \hypersetup{bookmarksopenlevel=0}
545 }

Chinese title page.
546 \def\HUST@zhtitlepage{
547 \begin{center}
548 \null\vskip 1cm
549 \includegraphics[width=.5\textwidth]{hust-title.pdf} \\\[0.8cm]
550 \parbox[t]{}[t]{\textwidth}{
551 \centering
552 \changeont{size=22pt,linespread=1.5}
553 \HEI
554 \ifthenelse{\equal{\HUST@categoryname}{}}{
555 \ziju{8pt}{研究生 ( ~\hspace{6em}~) 报告}
556 }{
557 \ziju{8pt}{研究生 ( \HUST@categoryname) 报告}
558 }
559 }
560 \vskip 0.8cm
561 \parbox[t]{}[t]{\textwidth}{
562 \centering
563 \changeont{size=18pt,linespread=1.5}
564 \ifthenelse{\equal{\HUST@title}{}}{
565 \hei{题目: ~\hspace{13em}}
566 }{
567 \hei{题目: ~\HUST@title}
568 }
569 }
570 \vfill

```

```

571 \parbox[t][t]{\textwidth}{
572   \centering
573   \TurnOffTabFontSetting
574   \changefont{size=16pt,linespread=1.5}
575   \begin{tabular}{p{6em}@{\hspace{1em}}l}
576     {{学}\hfill{号}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
577     {{姓}\hfill{名}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
578     {{专}\hfill{业}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
579     {{指}\hfill{导}\hfill{教}\hfill{师}} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
580     {院(系、所)} & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}\hspace{-10em}\hfill}
581   \end{tabular}
582   \TurnOnTabFontSetting
583 }
584 \vskip 2cm
585 \parbox[t][t]{\textwidth}{
586   \centering
587   \changefont{size=16pt,linespread=1.5}
588   {华中科技大学研究生院制}
589 }
590 \end{center}
591 }

English title page.
592 \def\HUST@entitlepage{
593   \begin{center}
594     \null\vskip 1cm
595     \parbox[t][t]{\textwidth}{
596       \centering
597       \changefont{size=20pt,linespread=1.5}
598       \scshape
599       Huazhong University of Science and Technology
600     }
601     \vskip 0.8cm
602     \parbox[t][t]{\textwidth}{
603       \centering
604       \changefont{size=20pt,linespread=1.5}
605       \scshape
606       \ifthenelse{equal{\HUST@categoryname}{}}{
607         Postgraduate~\hspace{6em}~Report
608       }{
609         Postgraduate~\HUST@categoryname
610       }

```

```

611 }
612 \vskip 0.8cm
613 \parbox[t] [] [t]{\textwidth}{
614   \centering
615   \changeont{size=18pt,linespread=1.5}
616   \bfseries
617   \ifthenelse{\equal{\HUST@title}{}}{
618     Title:~\hspace{13em}
619   }{
620     Title:~\HUST@title
621   }
622 }
623 \vfill
624 \parbox[t] [] [t]{\textwidth}{
625   \centering
626   \TurnOffTabFontSetting
627   \changeont{size=16pt,linespread=1.5}
628   \begin{tabular}{p{5em}@{\~}l}
629     {Student ID} & \makebox[16em] [l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\
630     {Name} & \makebox[16em] [l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\HUST@a
631     {Major} & \makebox[16em] [l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\HUST@
632     {Advisor} & \makebox[16em] [l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\HUS
633     {Department} & \makebox[16em] [l]{\rule[-2.0pt]{16em}{1pt}\hspace{-16em}\hfill\
634   \end{tabular}
635   \TurnOnTabFontSetting
636 }
637 \vskip 2cm
638 \parbox[t] [] [t]{\textwidth}{
639   \centering
640   \changeont{size=16pt,linespread=1.5}
641   Graduate School\\
642   Huazhong University of Science~\char38~Technology
643 }
644 \end{center}
645 }

Chinese note page.
646 \def\HUST@zhnotepage{
647   \null\vskip 1cm
648   \begin{center}
649     \ziju{1em}{\hei{\changeont{size=18pt,linespread=1.5}填表注意事项
650   }}

```

```

650 \end{center}
651 \vskip 1.2ex
652 \begingroup
653 \changeont{size=14pt,linespread=1.5}
654 \ifthenelse{\equal{\HUST@category}{practice}}{
655     \begin{enumerate}
656         \renewcommand{\labelenumi}{\zhnumber{\theenumi}、}
657         \item 本表适用于攻读专业硕士学位研究生实践环节报告，文献阅读与选题
        报告等。
658         \item 以上各报告内容及要求由相关院（系、所）做具体要求。
659         \item 以上各报告均须存入研究生个人学籍档案。
660         \item 本表填写要求文句通顺、内容明确、字迹工整。
661     \end{enumerate}
662 }{
663     \begin{enumerate}
664         \renewcommand{\labelenumi}{\zhnumber{\theenumi}、}
665         \item 本表适用于攻读硕士学位研究生选题报告、学术报告，攻读博士学位
        研究生文献综述、选题报告、论文中期进展报告、学术报告等。
666         \item 以上各报告内容及要求由相关院（系、所）做具体要求。
667         \item 以上各报告均须存入研究生个人学籍档案。
668         \item 本表填写要求文句通顺、内容明确、字迹工整。
669     \end{enumerate}
670 }
671 \endgroup
672 }

    English note page.
673 \def\HUST@ennotepage{
674     \null\vskip 1cm
675     \begin{center}
676         \textbf{\changeont{size=18pt,linespread=1.5}Note}
677     \end{center}
678     \vskip 1.2ex
679     \begingroup
680     \changeont{size=14pt,linespread=1.5}
681     \ifthenelse{\equal{\HUST@category}{practice}}{
682         \begin{enumerate}
683             \item This form is applicable for master student's practice re-
        port, literature survey and thesis proposal.
684             \item The contents and the requirements of the above reports are spec-
        ified in details by each department, respectively.

```

```

685     \item All these reports will be filed into the graduate's aca-
        demic archive.
686     \item This form should be filled with correct grammar, clear text and neat han
        writing.
687     \end{enumerate}
688   }{
689     \begin{enumerate}
690       \item This form is applicable for master student's thesis pro-
        posal, academic report, and also applicable for Ph.D. student's lit-
        erature survey, thesis proposal, midterm progress report and academic re-
        port.
691       \item The contents and the requirements of the above reports are spec-
        ified in details by each department, respectively.
692       \item All these reports will be filed into the graduate's aca-
        demic archive.
693       \item This form should be filled with correct grammar, clear text and neat han
        writing.
694     \end{enumerate}
695   }
696 \endgroup
697 }

```

**\maketitle** Commands to generate title page.

```

\makecover 698 \def\maketitle{
699   \let\HUST@oldthepage\thepage
700   \ifthenelse{\equal{\HUST@language}{chinese}}
701     {\def\thepage{封面}}
702     {\def\thepage{Titlepage}}
703   \begin{titlepage}
704     \thispagestyle{empty}
705     \ifthenelse{\equal{\HUST@language}{chinese}}
706       {\HUST@zhtitlepage}
707       {\HUST@entitlepage}
708   \end{titlepage}
709   \ifthenelse{\equal{\HUST@language}{chinese}}
710     {
711       \def\thepage{注意事项}
712       \thispagestyle{empty}
713       \HUST@zhnotepage
714     }{
715       \def\thepage{Note}

```



```

716     \thispagestyle{empty}
717     \HUST@ennotepage
718 }
719 \clearpage
720 \let\thepage\HUST@oldthepage
721 \setcounter{page}{1}
722 }
723 \let\makecover\maketitle
724
725     Chinese abstract page.
726 \def\HUST@zhabstractpage{
727     \chapter*{\HUST@zhabstractname}
728     \HUST@zhabstract \par
729     \vskip 1.2ex
730     \noindent\heif{\HUST@zhkeywordstitle}\hspace{.8em} \HUST@zhkeywords
731 }
732
733     English abstract page.
734 \def\HUST@enabstractpage{
735     \chapter*{\textsf{\HUST@enabstractname}}
736     \HUST@enabstract \par
737     \vskip 1.2ex
738     \noindent\textbf{\HUST@enkeywordstitle}\hspace{.8em} \HUST@enkey-
739     words
740 }

```

**\makeabstract** A command to generate abstract page.

```

736 \def\makeabstract{
737     \phantomsection
738     \ifthenelse{equal{\HUST@language}{chinese}}{
739         \let\HUST@zhabstract\HUST@abstract
740         \let\HUST@zhkeywords\HUST@keywords
741         \addcontentsline{toc}{chapter}{\HUST@zhabstractnamenospace}
742         \HUST@zhabstractpage
743         \clearpage
744     }{
745         \let\HUST@enabstract\HUST@abstract
746         \let\HUST@enkeywords\HUST@keywords
747         \addcontentsline{toc}{chapter}{\HUST@enabstractname}
748         \HUST@enabstractpage
749         \clearpage
750     }
751 }

```

`\tableofcontents` A command to generate table of contents.

```
752 \let\HUST@tableofcontents\tableofcontents
753 \def\tableofcontents{
754   \ifthenelse{\equal{\HUST@language}{chinese}}{
755     \pdfbookmark{\contentsnamenospace}{\contentsnamenospace}
756   }{
757     \pdfbookmark{\contentsname}{\contentsname}
758   }
759   \HUST@tableofcontents
760   \clearpage
761 }
```

`ack` A command to generate acknowledge page.

```
762 \newenvironment{ack}{
763   \clearpage
764   \phantomsection
765   \addcontentsline{toc}{chapter}{\HUST@acknamenospace}
766   \chapter*{\HUST@ackname}
767   \begin{group}
768     \normalsize
769   }{
770     \end{group}
771 }
```

`publications` A command to generate publications page.

```
772 \newenvironment{publications}{
773   \clearpage
774   \ifHUST@inappendix
775     \chapter{\HUST@publicationtitle}
776   \else
777     \phantomsection
778     \addcontentsline{toc}{chapter}{\HUST@publicationtitle}
779     \chapter*{\HUST@publicationtitle}
780   \fi
781   \begin{enumerate}[labelindent=0pt,label={[\arabic*]}]
782   }{
783     \end{enumerate}
784 }
```

`\bibliography` A command to generate bibliography page. We use `thubib.bst` in `thuthesis` to typeset bibliography in Chinese language mode. And use `IEEEtran` in English language mode.

```

785 \ifthenelse{\equal{\HUST@language}{chinese}}{
786   \def\thudot{\unskip.}
787   \def\thumasterbib{[Master Thesis]}
788   \def\thuphdbib{[Doctor Thesis]}
789   \bibliographystyle{thubib}
790 }{
791   \bibliographystyle{IEEEtran}
792 }
793 \let\HUST@bibliography\bibliography
794 \def\bibliography#1{
795   \clearpage
796   \phantomsection
797   \addcontentsline{toc}{chapter}{\bibname}
798   \ifthenelse{\equal{\HUST@language}{chinese}}{
799     \HUST@bibliography{#1}
800   }{
801     \HUST@bibliography{IEEEabrv,#1}
802   }
803 }

```

appendix The appendix environment.

```

804 \newif\ifHUST@inappendix
805 \HUST@inappendixfalse
806 \newif\ifHUST@appendix@resetmainmatter
807 \HUST@appendix@resetmainmatterfalse
808 \renewenvironment{appendix}{
809   \if@mainmatter
810     \HUST@appendix@resetmainmatterfalse
811   \else
812     \HUST@appendix@resetmainmattertrue
813     \@mainmattertrue
814   \fi
815   \appendixtitletocon
816   \appendices
817   \titleformat{\chapter}
818   {
819     \bfseries\HEI
820     \centering
821     \changeont{size=18pt}
822   }
823   {\appendixname\,\,thechapter}

```

```

824 {1em}
825 {}
826 \HUST@inappendixtrue
827 }{
828 \endappendices
829 \HUST@inappendixfalse
830 \ifHUST@appendix@resetmainmatter
831 \HUST@appendix@resetmainmatterfalse
832 \@mainmatterfalse
833 \else\fi
834 }

```

**\listoffigures** A command to generate list of figures.

```

835 \let\HUST@listoffigures\listoffigures
836 \def\listoffigures{
837 \clearpage
838 \ifHUST@inappendix
839 \addtocounter{chapter}{1}
840 \def\listfigurename{\appendixname\,\thechapter\hspace{1em}\HUST@listfigurename}
841 \else
842 \def\listfigurename{\HUST@listfigurename}
843 \fi
844 \phantomsection
845 \ifHUST@inappendix
846 \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\HUST@list-
figurename}
847 \else
848 \addcontentsline{toc}{chapter}{\listfigurename}
849 \fi
850 \HUST@listoffigures
851 \def\listfigurename{\HUST@listfigurename}
852 }

```

**\listoftables** A command to generate list of tables.

```

853 \let\HUST@listoftables\listoftables
854 \def\listoftables{
855 \clearpage
856 \ifHUST@inappendix
857 \addtocounter{chapter}{1}
858 \def\listtablename{\appendixname\,\thechapter\hspace{1em}\HUST@listtablename}
859 \else

```

```

860 \def\listtablename{\HUST@listtablename}
861 \fi
862 \phantomsection
863 \ifHUST@inappendix
864 \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\HUST@list-
tablename}
865 \else
866 \addcontentsline{toc}{chapter}{\listtablename}
867 \fi
868 \HUST@listoftables
869 \def\listtablename{\HUST@listtablename}
870 }

```

Back cover.

```

871 \def\HUST@backcoverpage{
872 \ifthenelse{\equal{\HUST@category}{practice}}{
873 \ifthenelse{\equal{\HUST@language}{chinese}}{
874 \begin{center}
875 \ziju{1em}{\hei{\changeont{size=18pt,linespread=1.5}导师评
语}}
876 \end{center}
877 \vskip 1.5cm
878 实践是专业硕士学位的重要环节，是一门必修课，8 个学分，对于专业学位实
践报告，要求字数 5000 以上，内容包括但不限于：参加实践的具体内容、完成的工
作、收获和体会等，格式自定，但封面和封底需用“研究生实践环节报告”。
879 \vfill
880 \begin{flushleft}
881 \changeont{size=16pt,linespread=1.5}\HEI 导师评分：
882 \end{flushleft}
883 \vskip 2cm
884 }{
885 \begin{center}
886 \textbf{\changeont{size=18pt,linespread=1.5}Advisor Reviews}
887 \end{center}
888 \vskip 6ex
889 Practice is an important part of a master's degree. It's a re-
quired course with eight credits. The practice report requires more than 5000 words.
tent can be including but not limited to: the specific content dur-
ing the participation in practice, the work which has been done, the har-
vesting or the experience. The format is not set, but the font and back cover are re-
quired from ``graduate practice report''.
890 \vfill

```

```

891     \begin{flushleft}
892     \textbf{\changeont{size=16pt,linespread=1.5}Score:}
893     \end{flushleft}
894     \vskip 2cm
895 }
896 }{\null\vfill}
897 \begin{flushleft}
898     \TurnOffTabFontSetting
899     \changeont{size=16pt,linespread=1.5}
900     \bfseries
901     \begin{tabular}{p{8em}@{\hspace{1em}}l}
902         \ifthenelse{\equal{\HUST@language}{chinese}}{研究生签字}{Student Sig-
nature}
903         & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}} \\\[2ex]
904         \ifthenelse{\equal{\HUST@language}{chinese}}{指导教师签字}{Advi-
sor Signature}
905         & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}} \\\[2ex]
906         \ifthenelse{\equal{\HUST@language}{chinese}}{院（系、所）领导签字
}{Dean Signature}
907         & \makebox[10em][l]{\rule[-2.0pt]{10em}{1pt}}
908     \end{tabular}
909     \TurnOnTabFontSetting
910 \end{flushleft}
911 \vskip 2cm
912 \begin{flushright}
913     \changeont{size=16pt,linespread=1.5}
914     \bfseries
915     \ifthenelse{\equal{\HUST@language}{chinese}}{\hspace{2em}年\hspace{2em}
月\hspace{2em}日}{Date:\hspace{8em}}
916 \end{flushright}
917 \vskip 6ex
918 }
919 \AtEndDocument{
920     \clearpage
921     \let\HUST@oldthepage\thepage
922     \ifthenelse{\equal{\HUST@language}{chinese}}
923     {\def\thepage{封底}}
924     {\def\thepage{Back cover}}
925     \thispagestyle{empty}
926     \HUST@backcoverpage
927     \let\thepage\HUST@oldthepage

```

```
928 }
```

## 10 Other Command

`\email`

```
929 \def\email#1{
930   \href{mailto:#1}{\texttt{#1}}
931 }
932 \end{class}
```

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