A Thesis Template for Huazhong University of Science and Technology: the hustthesis class *

Xu Cheng xucheng@me.com

2013/07/01

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^{*}This document corresponds to hustthesis.cls v1.1, dated 2013/07/01.

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I Introduction

This is a thesis 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1:
 - a) AdobeSongStd-Light
 - b) AdobeKaitiStd-Regular
 - c) AdobeHeitiStd-Regular
 - d) AdobeFangsongStd-Regular



如果使用LuaT_EX,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。

¹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 hustthesis 目录下的如下文件拷贝到你 TrX 工程根目录下即可:

- hustthesis.bst
- hustthesis.cls
- hust-title.eps
- hust-title.pdf

3 基本用法



本文档只能使用 XHATEX 或 LualATEX (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{hustthesis}

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 xx 学位论文")、页眉修饰线(双线)、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。

 $\texttt{degree} \quad \texttt{degree} = \langle \textit{none} \mid \textit{fyp} \mid \textit{bachelor} \mid \textit{master} \mid \textit{phd} \rangle$

指定论文种类,它将通过设置字段\HUST@zhapplyname和\HUST@enapplyname 来影响中英文封面处的标题和正文处的页眉(如果 format 设为 draft)。各个不同的选项产生的效果见表 1。如果不指定、默认设置为 none。

language

language = $\langle chinese \mid english \mid english-draft \rangle$

Updated: 2013-07-01

指定论文语言。特别的,如果设定为 english-draft,将会剔除论文中的所有中文内容,这有利于在未安装中文字体的环境中使用。如果不指定,默认设置为 chinese。

Table 1: degree 选项的作用

选项	中文标题	英文标题
延坝	(字段\HUST@zhapplyname)	(字段\HUST@enapplyname)
none	学位论文	A Thesis Submitted in Par-
		tial Fulfillment of the Re-
		quirements for the Degree
fyp	毕业论文	A Thesis Submitted in Par-
		tial Fulfillment of the Re-
		quirements for Final Year
		Project
bachelor	学士学位论文	A Thesis Submitted in Par-
		tial Fulfillment of the Re-
		quirements for the Degree of
		Bachelor
master	硕士学位论文	A Thesis Submitted in Par-
		tial Fulfillment of the Re-
		quirements for the Degree of
		Master
phd	博士学位论文	A Thesis Submitted in Par-
		tial Fulfillment of the Re-
		quirements for the Ph.D

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。其中一部分命令是以\zhX{<Chinese var>}, \enX{<English var>}和\X{<Chinese var>}{<English var>}的形式出现, 他们分别意味着设置字段 X 的中文部分, 英文部分及一同设定。

```
\zhtitle \zhtitle{\(Chinese title\)}
\entitle \entitle{\(English title\)}
\title \title{\(Chinese title\)}{\(English title\)}
\zhauthor \zhauthor{\(Chinese author\)}
\enauthor \enauthor{\(Chinese author\)}
\author \author{\(Chinese author\)}{\(English author\)}
\zhauthor \delta \text{author}{\(Chinese author\)}{\(English author\)}
\zhauthor \delta \text{author}{\(Chinese author\)}{\(English author\)}
```

\date \date{ $\langle Year \rangle$ }{ $\langle Month \rangle$ }{ $\langle Day \rangle$ } 该命令用于设定论文的答辩日期。如果不设定,则会选择当前编译日期作为答 辩日期。 $\cline{Chinese schoolname}$ \zhschoolname $\enschoolname{\langle English schoolname \rangle}$ \enschoolname $\schoolname{\langle Chinese schoolname \rangle}{\langle English schoolname \rangle}$ \schoolname 这一组命令用于设定论文的中英文学校名。该字段在模板中已默认设置为 \schoolname{华中科技大学}{Huazhong University of Science \& Technology}。 所以除非需更改学校名,无需使用该命令。 \zhaddress $\ensuremath{\mbox{\colored}} \ensuremath{\mbox{\colored}} \ensuremath{\m$ \enaddress $\address{\langle Chinese \ address \rangle}{\langle English \ address \rangle}$ \address 这一组命令用于设定论文的中英文学校地址。该字段在模板中已默认设置为 \address{中国, 武汉, 430074}{Wuhan~430074, P.~R.~China}。所以除非 需更改学校地址,无需使用该命令。 \zhmajor $\ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} \ensuremath{\mbox{\color}} {\color} \ensuremath{\mbox{\color}} \$ \enmajor $\mbox{\mbox{\mbox{$major$}}} {\mbox{\mbox{$major$}}} {\mbox{\mbox{$chinese$ $major$}}} {\mbox{\mbox{$major$}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{$major$}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{$major$}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\mbox{\mbox{$major$}}}} {\mbox{\$ \major 这一组命令用于设定论文的中英文专业名。 \zhsupervisor{\langle Chinese supervisor \rangle} \zhsupervisor $\ensuremath{\mbox{\cor}} \langle {\it English supervisor} \rangle \}$ \ensupervisor $\space{Chinese supervisor} {\langle Chinese supervisor \rangle} {\langle English supervisor \rangle}$ \supervisor 这一组命令用于设定论文的中英文指导老师名(含职称)。 \zhasssupervisor $\ensuremath{\mbox{\corr}} \langle {\it English ass supervisor} \rangle \}$ \enasssupervisor $\verb|\asssupervisor|{$\langle \textit{Chinese asssupervisor}\rangle$} {$\langle \textit{English asssupervisor}\rangle$}|$ \asssupervisor 这一组命令用于设定论文的中英文副指导老师名(含职称)。该命令是可选的, 如果不加以设定, 封面处不会显示相应项。 \schoolcode 用于设置学校代码。 \stuno \stuno $\{\langle student number \rangle\}$ 用干设置学号。 $\classno \classno{\langle classify number \rangle}$ 用于设置分类号。

\secretlevel \secretlevel{\langle secret level \rangle} 用于设置密级。 \zhabstract $\ensuremath{\mbox{\colored}} \ensuremath{\mbox{\colored}} \ensuremath{\m$ \enabstract $\abstract{\langle \mathit{Chinese abstract} \rangle}{\langle \mathit{English abstract} \rangle}$ \abstract 这一组命令用于设定论文的中英文摘要。 \zhkeywords{\langle Chinese keywords \rangle} \zhkeywords $\ensuremath{\mbox{\colored}} \ensuremath{\mbox{\colored}} \ensuremath{\m$ \enkeywords $\verb|\keywords|{\langle Chinese keywords|}|{\langle English keywords|}|$ \keywords 这一组命令用于设定论文的中英文关键字。

3.3 其它基本命令

下面来介绍其它基本命令。

\frontmatter 这一组命令用于设定论文的状态、改变样式,其具体使用见简单示例。\frontmatter mainmatter 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。\backmatter 表示论文正文的开始。\backmatter 表示论文正文的结束。
\maketitle 和\makecover 作用相同,用于生成封面和版权页面。

\makeabstract 用于生成中英文摘要页面。

\tableofcontents 用于生成目录。

\endateformat

\zhdateformat 用于打印中英文日期。

ack ack 环境用于致谢页面。使用方法如下:

\bibliography \bibliography $\{\langle .bib\ file \rangle\}$

用于生成参考文献。

appendix 和境用于附录环境。你可以将附录置于 appendix 环境中, 如:

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

\appendix 或者使用\appendix代表后文均为附录,如:

\appendix

<content>

\listoftables

\listoffigures 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 附录中使用。

publications

publications 环境用于已发表论文页面。一般用于附录中。使用上同 enumerate 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:

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

\email

 $\ensuremath{\mbox{\mbox{\it Lemail}}} Address \}$

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hustthesis-zh-example.tex 文件,其效果见hustthesis-zh-example.pdf。

```
\documentclass[degree=phd,language=chinese]{hustthesis}
  \stuno{你的学号}
4 \schoolcode{10487}
5 \title{中文标题}{英文标题}
6 \author{作者名}{作者名拼音}
7 \major{专业中文}{专业英文}
  \supervisor{指导老师中文}{指导老师英文}
  \date{2013}{7}{1} % 答辩日期
 \zhabstract{中文摘要}
12 \zhkeywords{中文关键字}
  \enabstract{英文摘要}
  \enkeywords{英文关键字}
  \begin{document}
  \frontmatter
  \maketitle
20 \makeabstract
21 \tableofcontents
22 \listoffigures
23 \listoftables
  \mainmatter
 %% 正文
  \backmatter
30 \begin{ack}
31 %% 致谢
32 \end{ack}
  \bibliography{参考文献.bib文件}
  \appendix
35
37 \begin{publications}
38 %% 发表过的论文列表
39 \end{publications}
41 %% 附录剩余部分
```

预设宏包介绍 5

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。
- fancynum 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。
- Itxtable 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。

高级设置 6

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 \ \langle content \rangle\}
```

切换字体为黑体 (AdobeHeitiStd-Regular)。

 $\KAI \ \{\KAI \ \langle content \rangle\}$

 $\lambda \{\langle content \rangle\}$ \kai

切换字体为楷体(AdobeKaitiStd-Regular)。

 $\verb|\FANGSONG| {\FANGSONG} | {\Content|}|$ $\lceil \langle content \rangle \rceil$

\fangsong

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 X¬IATeX) 和宏包 luatex-ja (对于 LuaLATFX)的文档。

6.2 内部字段设置

本模板定义了很多内部字段,其具体内容见 section 7。通过更改这些字段,可以对论文格式进行自定义。

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.

If you need to produce the final format of thesis (see subsection 3.1 for more details), you should also need to install following Chinese fonts:

- AdobeSongStd-Light
- AdobeKaitiStd-Regular
- AdobeHeitiStd-Regular
- AdobeFangsongStd-Regular



If you use LuaT_EX, you need to run the command mkluatexfontdb to refresh font database index after installing the fonts.

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 hustthesis into your TEX project root directory.

- hustthesis.bst
- hustthesis.cls
- hust-title.eps
- hust-title.pdf

3 Usage



This template can only be compiled by XHIEX orLualIEX(Recommend).

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

\documentclass[language=english]{hustthesis}

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 not set to english-draft. The default value is final.

```
language
```

language = $\langle chinese \mid english \mid english-draft \rangle$

Updated: 2013-07-01

Set what language is used in the document. Specially, if it's set to english-draft, all the Chinese characters will be removed in the document. This is extremely helpful when you don't install Chinese fonts. The default value is chinese.

 $\texttt{degree} \quad \texttt{degree} = \langle \textit{none} \mid \textit{fyp} \mid \textit{bachelor} \mid \textit{master} \mid \textit{phd} \rangle$

Set the category of thesis. It will influence the title of document, see Table 2. The default value is none.

Table 2: Title under different degree

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

Variables setting 3.2

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.

 $\verb|\date| \langle \mathit{Year} \rangle \} \{\langle \mathit{Month} \rangle \} \{\langle \mathit{Day} \rangle \}$

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.

 $\address{\langle address \rangle}$ \address 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. $\mbox{major} \mbox{major} {\mbox{major}}$ Set your major. $\supervisor{\langle supervisor \rangle}$ \supervisor Set your supervisor. $\assupervisor{\langle ass-supervisor \rangle}$ \asssupervisor Set your ass-supervisor if you have. \abstract $\abstract{\langle abstract \rangle}$ Put your abstract. \keywords $\keywords{\langle keywords \rangle}$ Put your keywords. Other commands 3.3

\frontmatter Used to determine the different part of document. You can see the example at section 4. \mainmatter \backmatter \maketitle and \makecover are the same. Used to create the title page. \maketitle \makecover Used to create abstract page. \makeabstract \tableofcontents Used to create table of contents. Used to print the date. \endateformat ack The ack environment is used to create acknowledge page. \begin{ack} <content>

\end{ack}

\bibliography

\bibliography $\{\langle .bib \ file \rangle\}$

Used to create bibliography page.

appendix

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

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

\appendix Or simple use \appendix to indicate that the rest of document are all in appendix, like this:

```
\appendix
<content>
```

\listoffigures \listoftables

Create the index for all the figures and tables separately.

publications

The publications environment is where you list all of your published thesises. 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:

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

```
\ensuremath{\mbox{\mbox{\it L}mail}} \ensuremath{\mbox{\it L}mail} \ensuremath{\mbox{\it 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 hustthesis-en-example.tex which will generate hustthesis-en-example.pdf.

```
\documentclass[degree=phd,language=english]{hustthesis}
  \title{your title}
4 \author{your name}
  \major{your major}
  \supervisor{your supervisor}
  \date{2013}{7}{1}
  \abstract{the abstract}
  \keywords{the keywords}
  \begin{document}
13
  \frontmatter
15 \maketitle
  \makeabstract
17 \tableofcontents
  \listoffigures
  \listoftables
  \mainmatter
  %% main body
  \backmatter
  \begin{ack}
  %% acknowledge
28 \end{ack}
  \bibliography{.bib file}
  \appendix
33 \begin{publications}
  %% your publications
  \end{publications}
```

```
37  %% rest of appendix
38
39 \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.
- Itxtable 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)

28 }

```
2 \RequirePackage{ifthen}
     Process Options
1
    Use xkeyval to process options.
3 \RequirePackage{xkeyval}
    Option format.
4 \newif\ifHUST@finalformat
 \HUST@finalformattrue
6 \DeclareOptionX{format}[final]{
   \left\{ \frac{\#1}{final} \right\}
     \HUST@finalformattrue
   }{
     \ifthenelse{\equal{#1}{draft}}{
10
       \HUST@finalformatfalse
     }{
12
       \ClassError{hustthesis}
       {Option format can only be 'final' or 'draft'}
       {Try to remove option format^^J}
     }
   }
17
18 }
    Option language.
19 \gdef\HUST@language{chinese}
 \DeclareOptionX{language}[chinese]{
   glish-draft}}{
     \gdef\HUST@language{#1}
   }{
23
     \ClassError{hustthesis}
24
     {Option language can only be 'chinese', 'english' or 'english-draft'}
     {Try to remove option language^^J}
   }
27
```

```
Option degree.
```

```
29 \gdef\HUST@degree{none}
 \DeclareOptionX{degree}[none]{
   elor} \OR \equal{#1}{master} \OR \equal{#1}{phd}}{
     \gdef\HUST@degree{#1}
32
   }{
33
      \ClassError{hustthesis}
       {Option degree can only be 'none', 'fyp', 'bachelor', 'master' or 'phd'}
35
       {Try to remove option degree^^J}
   }
38 }
    Process options and load class book.
39 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
40 \ProcessOptionsX
41 \LoadClass[12pt, a4paper, openany]{book}
```

2 Check Engine

Check engine, only XHATEX and LualATEX are supported.

```
42 \RequirePackage{iftex}
 \ifXeTeX\else
   \ifLuaTeX\else
    \begingroup
45
     \errorcontextlines=-1\relax
46
     \newlinechar=10\relax
47
     \errmessage{^^J
48
     * XeTeX or LuaTeX is required to compile this document.^^J
50
     * Sorry!^^J
51
     \endgroup
   \fi
56 \fi
```

3 Font Setting

Set font used in document. Firstly, it's font setting for English font under english-draft 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.

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

```
69  \let\HEI\relax
70  \let\KAI\relax
71  \let\FANGSONG\relax
72  \newcommand{\hei}[1]{#1}
73  \newcommand{\kai}[1]{#1}
74  \newcommand{\fangsong}[1]{#1}
75 }{}
```

Below is the font setting under chinese or english mode. We chooses the same English font as under english-draft mode. We use <code>xecjk</code> package (for Xalatex-ja package (for Lualatex, recommend) to handle Chinese font. We will use font: AdobeSongStd-Light, AdobeKaitiStd-Regular, AdobeHeitiStd-Regular and AdobeFangsongStd-Regular.

```
76 \ifthenelse{\equal{\HUST@language}{english-draft}}{}{
77  \ifXeTeX % XeTeX下使用 fontspec + xeCJK处理字体
78  % 英文字体
79  \RequirePackage{fontspec}
80  \RequirePackage{xunicode}
81  \setmainfont[
82  Ligatures={Common,TeX},
83  Extension=.otf,
84  UprightFont=*-regular,
85  BoldFont=*-bold,
86  ItalicFont=*-italic,
87  BoldItalicFont=*-bolditalic]{texgyretermes}
```

```
\setsansfont[Ligatures={Common,TeX}]{Droid Sans}
                   \setmonofont{CMU Typewriter Text}
                   \defaultfontfeatures{Mapping=tex-text}
          90
                   % 中文字体
                   \RequirePackage[CJKmath] {xeCJK}
          92
                   \setCJKmainfont[
                    BoldFont={Adobe Heiti Std},
                    ItalicFont={Adobe Kaiti Std}]{Adobe Song Std}
          95
                   \setCJKsansfont{Adobe Kaiti Std}
          96
                   \setCJKmonofont{Adobe Fangsong Std}
                   \xeCJKsetup{PunctStyle=kaiming}
                   \newcommand\ziju[2]{{\renewcommand{\CJKglue}{\hskip #1} #2}}
          100
     \HEI
                   \newCJKfontfamily\HEI{Adobe Heiti Std}
     \KAI
                   \newCJKfontfamily\KAI{Adobe Kaiti Std}
         102
\FANGSONG
                   \newCJKfontfamily\FANGSONG{Adobe Fangsong Std}
     \hei
                   \mbox{\newcommand{\hei}[1]{{\HEI #1}}}
         104
     \kai
                   \mbox{\newcommand}(\ai)[1]{{\KAI #1}}
\fangsong
                   \newcommand{\fangsong}[1]{{\FANGSONG #1}}
         106
                \else\fi
                 \ifLuaTeX % LuaTeX 下使用 luatex-ja 处理字体 [推荐]
         108
                   \RequirePackage{luatexja-fontspec}
                  % 英文字体
         110
                   \setmainfont[Ligatures={Common,TeX}]{Tex Gyre Termes}
         111
                   \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
         112
                   \setmonofont{CMU Typewriter Text}
         113
                   \defaultfontfeatures{Mapping=tex-text,Scale=MatchLowercase}
                   % 中文字体
         115
                   \setmainjfont[
         116
                    BoldFont={AdobeHeitiStd-Regular},
         117
```

```
ItalicFont={AdobeKaitiStd-Regular}] {AdobeSongStd-Light}
                   \setsansjfont{AdobeKaitiStd-Regular}
         119
                   \defaultjfontfeatures{JFM=kaiming}
         120
          121
                   \newcommand\ziju[2]{\vbox{\ltjsetparameter{kanjiskip=#1} #2}}
         122
     \HEI
                   \newjfontfamily\HEI{AdobeHeitiStd-Regular}
         123
     \KAI
                   \newjfontfamily\KAI{AdobeKaitiStd-Regular}
         124
\FANGSONG
         125
                   \newjfontfamily\FANGSONG{AdobeFangsongStd-Regular}
     \hei
                   \newcommand{\hei}[1]{{\jfontspec{AdobeHeitiStd-Regular} #1}}
         126
     \kai
                   \newcommand{\kai}[1]{{\jfontspec{AdobeKaitiStd-Regular} #1}}
         127
\fangsong
                   \newcommand{\fangsong}[1]{{\jfontspec{AdobeFangsongStd-Regular} #1}}
         128
                \else\fi
         129
               Generate Chinese number using zhnumber.
                \RequirePackage{zhnumber}
          130
                \def\CJKnumber#1{\zhnumber{#1}} % 兼容 CJKnumb
         131
         132 }
```

4 Basic Format

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

```
133 \RequirePackage{interfaces-LaTeX}
134 \changefont{linespread=1.3}
```

Use geometry package to handle paper page.

135 \RequirePackage{geometry}

```
\geometry{
     a4paper,
137
     top=1.2in,
138
     bottom=1.2in,
139
     left=1in,
     right=1in,
141
     includefoot
142
143 }
144 \pdfpagewidth=\paperwidth
145 \pdfpageheight=\paperheight
     Indent of paragraph and skip between paragraphs.
146 \RequirePackage{indentfirst}
147 \setlength{\parindent}{2em}
\setlength{\parskip}{Opt plus 2pt minus 1pt}
     Packages to handle color.
149 \RequirePackage{color}
  \RequirePackage[table]{xcolor}
     Use hyperref package to generate cross-reference link.
151 \RequirePackage[unicode]{hyperref}
  \hypersetup{
     bookmarksnumbered=true,
153
     bookmarksopen=true,
     bookmarksopenlevel=1,
155
     breaklinks=true,
156
     colorlinks=true,
157
     allcolors=black,
158
     linktoc=all,
     plainpages=false,
     pdfpagelabels=true,
161
     pdfstartview={XYZ null null 1},
162
     pdfinfo={Template.Info={hustthesis.cls v1.1 2013/07/01, Copyright (C) 2013-2014 by
164 }
```

5 Load Packages

Load packages for math.

165 \RequirePackage{amsmath,amssymb,amsfonts}

```
166 \RequirePackage[amsmath,amsthm,thmmarks,hyperref,thref]{ntheorem}
  \RequirePackage{fancynum}
168 \setfnumgsym{\,}
\RequirePackage[lined,boxed,linesnumbered,ruled,vlined,algochapter]{algorithm2e}
     Load packages for picture.
170 \RequirePackage[all]{xy}
171 \RequirePackage{overpic}
172 \RequirePackage{graphicx,caption,subcaption}
     Load packages for table.
173 \RequirePackage{array}
174 \RequirePackage{multirow,tabularx,ltxtable}
     Load package for code highlight. Here we use listings to highlight the
 code. But if you need more features, use minted.
175 \RequirePackage{listings}
     Load package for bibliography cite style.
176 \RequirePackage[numbers,square,comma,super,sort&compress]{natbib}
     Other packages for style setting.
177 \RequirePackage{titlesec}
178 \RequirePackage{titletoc}
179 \RequirePackage{tocvsec2}
180 \RequirePackage[inline]{enumitem}
181 \RequirePackage{fancyhdr}
182 \RequirePackage{afterpage}
183 \RequirePackage{datenumber}
184 \RequirePackage{etoolbox}
185 \RequirePackage{appendix}
186 \RequirePackage[titles]{tocloft}
187 \RequirePackage{xstring}
188 \RequirePackage{perpage}
```

6 Variables Setting

```
\zhtitle Commands to set the title.
\entitle 189 \def\zhtitle#1{\gdef\HUST@zhtitle{#1}\hypersetup{pdftitle={#1}}}
\title 190 \def\entitle#1{\gdef\HUST@entitle{#1}}

191 \DeclareDocumentCommand\title{m g}

192 {
193 \IfNoValueTF{#2}{
```

```
\zhtitle{#1}\entitle{#1}
                                                    }{
                                       195
                                                          \zhtitle{#1}\entitle{#2}
                                       196
                                       197
                                      198 }
                                      199 \title{}{}
            \zhauthor Commands to set the author.
           \enauthor 200 \def\zhauthor#1{\gdef\HUST@zhauthor{#1}\hypersetup{pdfauthor={#1}}}
                 \author 201 \def\enauthor#1{\gdef\HUST@enauthor{#1}}
                                      202 \DeclareDocumentCommand\author{m g}
                                      203 {
                                                    \IfNoValueTF{#2}{
                                      204
                                                          \zhauthor{#1}\enauthor{#1}
                                      205
                                                    }{
                                      206
                                                          \zhauthor{#1}\enauthor{#2}
                                                    }
                                      208
                                      209 }
                                      210 \author{}{}
                       \date A command to set the date and several commands to display date.
\zhdateformat 211 \def\date#1#2#3{
\endateformat 212
                                                    \setdate{#1}{#2}{#3}
      \dateformat 213 }
                                      214 \setdatetoday
                                      215 \def\zhdateformat{~\thedateyear~年~\thedatemonth~月~\thedateday~日}
                                      216 \def\endateformat{\datedate}
                                      \verb| | if the nelse = {\chinese}| {\chines
                                                    \let\dateformat\zhdateformat
                                      219 }{
                                                    \let\dateformat\endateformat
                                      220
                                      221 }
\zhschoolname Commands to set the school name.
\enschoolname 222 \def\zhschoolname#1{\gdef\HUST@zhschoolname{#1}}
      \schoolname 223 \def\enschoolname#1{\gdef\HUST@enschoolname{#1}}
                                      224 \DeclareDocumentCommand\schoolname{m g}
                                      225 {
                                                    \IfNoValueTF{#2}{
                                      226
                                                          \zhschoolname{#1}\enschoolname{#1}
                                      227
                                                    }{
                                      228
                                                          \zhschoolname{#1}\enschoolname{#2}
                                      229
```

```
}
              230
              231 }
              232 \schoolname{华中科技大学}{Huazhong University of Science~\char38~Tech-
                 nology}
   \zhaddress Commands to set the address.
   \enaddress 233 \def\zhaddress#1{\gdef\HUST@zhaddress{#1}}
     \address 234 \def\enaddress#1{\gdef\HUST@enaddress{#1}}
              235 \DeclareDocumentCommand\address{m g}
              236 {
                   \IfNoValueTF{#2}{
              237
                     \zhaddress{#1}\enaddress{#1}
              238
                   }{
              239
                     \zhaddress{#1}\enaddress{#2}
              240
                   }
              242 }
              243 \address{中国, 武汉, 430074}{Wuhan~430074, P.~R.~China}
     \zhmajor Commands to set the major.
     \enmajor 244 \def\zhmajor#1{\gdef\HUST@zhmajor{#1}}
       \major 245 \def\enmajor#1{\gdef\HUST@enmajor{#1}}
              246 \DeclareDocumentCommand\major{m g}
              247 {
                   \IfNoValueTF{#2}{
              248
                     \zhmajor{#1}\enmajor{#1}
              249
                   }{
              250
                     \zhmajor{#1}\enmajor{#2}
              251
              252
              253 }
              254 \major{}{}
\zhsupervisor Commands to set the supervisor.
\ensupervisor 255 \def\zhsupervisor#1{\gdef\HUST@zhsupervisor{#1}}
  \supervisor 256 \def\ensupervisor#1{\gdef\HUST@ensupervisor{#1}}
              257 \DeclareDocumentCommand\supervisor{m g}
              258 {
                   \IfNoValueTF{#2}{
              259
                     \zhsupervisor{#1}\ensupervisor{#1}
              260
                   }{
              261
                     \zhsupervisor{#1}\ensupervisor{#2}
              262
                   }
              263
              264 }
```

```
\zhasssupervisor Commands to set the asssupervisor.
\enasssupervisor 266 \def\zhasssupervisor#1{\gdef\HUST@zhasssupervisor{#1}}
  \asssupervisor 267 \def\enasssupervisor#1{\gdef\HUST@enasssupervisor{#1}}
                 268 \DeclareDocumentCommand\asssupervisor{m g}
                 269 {
                      \IfNoValueTF{#2}{
                 270
                        \zhasssupervisor{#1}\enasssupervisor{#1}
                 271
                      }{
                 272
                        \zhasssupervisor{#1}\enasssupervisor{#2}
                 274
                      }
                 275 }
                 276 \asssupervisor{}{}
     \schoolcode A command to set school code.
                 277 \def\schoolcode#1{\gdef\HUST@schoolcode{#1}}
                 278 \schoolcode{}
          \stuno A command to set student number.
                 279 \def\stuno#1{\gdef\HUST@stuno{#1}}
                 280 \stuno{}
        \classno A command to set classification number.
                 281 \def\classno#1{\gdef\HUST@classno{#1}}
                 282 \classno{}
    \secretlevel A command to set secret level.
                 283 \def\secretlevel#1{\gdef\HUST@secretlevel{#1}}
                 284 \secretlevel{}
     \zhabstract Commands to set the abstract.
     \enabstract 285 \long\def\zhabstract#1{\long\gdef\HUST@zhabstract{#1}}
       \abstract 286 \long\def\enabstract#1{\long\gdef\HUST@enabstract{#1}}
                 287 \DeclareDocumentCommand\abstract{+m +g}
                 288 {
                      \IfNoValueTF{#2}{
                 289
                        \zhabstract{#1}\enabstract{#1}
                 290
                 291
                        \zhabstract{#1}\enabstract{#2}
                      }
                 293
                 294 }
                 295 \abstract{}{}
```

265 \supervisor{}{}

```
\zhkeywords Commands to set the keywords.
\enkeywords 296 \def\zhkeywords#1{\gdef\HUST@zhkeywords{#1}\hypersetup{pdfkeywords={#1}}}
  \keywords 297 \def\enkeywords#1{\gdef\HUST@enkeywords{#1}}
            298 \DeclareDocumentCommand\keywords{m g}
            299 {
                 \IfNoValueTF{#2}{
            300
                   \zhkeywords{#1}\enkeywords{#1}
            301
                 }{
            302
                   \zhkeywords{#1}\enkeywords{#2}
            303
                 }
            304
            305 }
            306 \keywords{}{}
```

7 Localization

Chinese localization. ²

```
\ifthenelse{\equal{\HUST@language}{chinese}}{
      \def\indexname{索引}
308
      \def\figurename{图}
309
      \def\tablename{表}
310
      \AtBeginDocument{\def\listingscaption{代码}}
311
      \def\bibname{参考文献}
      \def\contentsname{目\hspace{1em}录}
      \def\contentsnamenospace{目录}
31/
      \def\appendixname{附录}
315
      \def\HUST@listfigurename{插图索引}
316
      \def\HUST@listtablename{表格索引}
317
      \def\equationautorefname{公式}
318
      \def\footnoteautorefname{脚注}
319
      \def\itemautorefname~#1\null{第~#1~项\null}
320
      \def\figureautorefname{图}
321
      \def\tableautorefname{表}
      \def\appendixautorefname{附录}
      \expandafter\def\csname\appendixname autorefname\endcsname{\ap-
324
  pendixname}
      \def\chapterautorefname~#1\null{第\zhnumber{#1}章\null}
325
      \def\sectionautorefname~#1\null{#1~小节\null}
      \def\subsectionautorefname~#1\null{#1~小节\null}
327
```

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

```
\def\subsubsectionautorefname~#1\null{#1~小节\null}
328
       \def\FancyVerbLineautorefname~#1\null{第~#1~行\null}
       \def\pageautorefname~#1\null{第~#1~页\null}
330
       \def\lstlistingautorefname{代码}
331
       \def\definitionautorefname{定义}
332
       \def\propositionautorefname{命题}
333
       \def\lemmaautorefname{引理}
       \def\theoremautorefname{定理}
335
       \def\axiomautorefname{公理}
336
       \def\corollaryautorefname{推论}
337
       \def\exerciseautorefname{练习}
       \def\exampleautorefname{例}
339
       \def\proofautorefname{证明}
340
       \SetAlgorithmName{算法}{算法}{算法索引}
341
       \SetAlgoProcName{过程}{过程}
342
       \SetAlgoFuncName{函数}{函数}
       \def\AlgoLineautorefname~#1\null{第~#1~行\null}
344
345 }{}
     English localization.
  \ifthenelse{\equal{\HUST@language}{chinese}}{}{
       \def\HUST@listfigurename{List of Figures}
347
       \def\HUST@listtablename{List of Tables}
348
       \def\equationautorefname{Equation}
       \def\footnoteautorefname{Footnote}
350
       \def\itemautorefname{Item}
351
       \def\figureautorefname{Figure}
352
       \def\tableautorefname{Table}
353
       \def\appendixautorefname{Appendix}
       \expandafter\def\csname\appendixname autorefname\endcsname{\ap-
355
  pendixname}
       \def\chapterautorefname{Chapter}
356
       \def\sectionautorefname{Section}
       \def\subsectionautorefname{Subsection}
358
       \def\subsubsectionautorefname{Sub-subsection}
359
       \def\FancyVerbLineautorefname{Line}
360
       \def\pageautorefname{Page}
361
       \def\lstlistingautorefname{Code Fragment}
362
       \def\definitionautorefname{Definition}
       \def\propositionautorefname{Proposition}
364
       \def\lemmaautorefname{Lemma}
365
       \def\theoremautorefname{Theorem}
366
```

```
\def\axiomautorefname{Axiom}
      \def\corollaryautorefname{Corollary}
      \def\exerciseautorefname{Exercise}
369
      \def\exampleautorefname{Example}
370
      \def\proofautorefname{Proof}
371
      \SetAlgorithmName{Algorithm}{Algorithm}{List of Algorithms}
372
      \SetAlgoProcName{Procedure}{Procedure}
      \SetAlgoFuncName{Function}{Function}
37/
      \def\AlgoLineautorefname{Line}
375
376 }
    Internal variables.
377 \def\HUST@classnotitle{{分}\hfill{类}\hfill{号}}
378 \def\HUST@stunotitle{学号}
379 \def\HUST@schoolcodetitle{学校代码}
380 \def\HUST@secrettile{密级}
381 \def\HUST@zhauthortitle{{学}\hfill{位}\hfill{申}\hfill{请}\hfill{人}}
382 \def\HUST@zhmajortitle{{学}\hfill{科}\hfill{专}\hfill{业}}
383 \def\HUST@zhsupervisortitle{{指}\hfill{导}\hfill{教}\hfill{师}}
384 \def\HUST@zhasssupervisortitle{{副}\hfill{指}\hfill{导}\hfill{教}\hfill{
  师}}
  \def\HUST@zhdatetitle{{答}\hfill{辩}\hfill{目}\hfill{期}}
386
  \def\HUST@enauthortitle{Student}
  \def\HUST@enmajortitle{Major}
  \def\HUST@ensupervisortitle{Supervisor}
  \def\HUST@enasssupervisortitle{Co-Supervisor}
391
  \def\HUST@originaldeclare{独创性声明}
  \long\def\HUST@originaldeclaretext{
    本人声明所呈交的学位论文是我个人在导师的指导下进行的研究工作及取得的研
  究成果。尽我所知,除文中已标明引用的内容外,本论文不包含任何其他人或集体已
  经发表或撰写过的研究成果。对本文的研究做出贡献的个人和集体,均已在文中以明
  确方式标明。本人完全意识到本声明的法律结果由本人承担。
395 }
396 \def\HUST@zhauthorsig{学位论文作者签名:}
397 \def\HUST@zhdatefield{日期: \hspace{2em}年\hspace{2em}月\hspace{2em}
  日}
398
  \def\HUST@authtitle{学位论文版权使用授权书}
400 \long\def\HUST@authorizationtext{
```

401 本学位论文作者完全了解学校有关保留、使用学位论文的规定,即:学校有权保留 并向国家有关部门或机构送交论文的复印件和电子版,允许论文被查阅和借阅。本人 授权华中科技大学可以将本学位论文的全部或部分内容编入有关数据库进行检索,可 以采用影印、缩印或扫描等复制手段保存和汇编本学位论文。

```
402 }
403 \long\def\HUST@authorizationaddon{
   本论文属于
   \tabincell{1}{
405
    保密$\square$, 在~\makebox[2em]{\hrulefill} 年解密后适用本授权书。\\
406
    不保密~$\square$。
407
   }
409 }
  \def\HUST@authorizationcheck{(请在以上方框内打"$\surd$")}
  \def\HUST@zhteachersig{指导教师签名: }
412
  \def\HUST@zhabstractname{摘\hspace{1em}要}
  \def\HUST@zhabstractnamenospace{摘要}
  \def\HUST@zhkeywordstitle{关键词:}
  \def\HUST@enabstractname{Abstract}
   \def\HUST@enkeywordstitle{Key words:}
  \ifthenelse{\equal{\HUST@language}{chinese}}{
419
    \def\HUST@ackname{致\hspace{1em}谢}
420
    \def\HUST@acknamenospace{致谢}
421
    \def\HUST@publicationtitle{攻读学位期间发表的学术论文}
422
423 }{
    \def\HUST@ackname{Acknowledge}
424
    \def\HUST@acknamenospace{Acknowledge}
125
    \def\HUST@publicationtitle{Publication}
426
427 }
  \ifthenelse{\equal{\HUST@degree}{none}}{
429
    \def\HUST@zhapplyname{学位论文}
430
    \def\HUST@enapplyname{A Thesis Submitted in Partial Fulfillment of the Re-
431
  quirements for the Degree}
432 }{}
133
  \ifthenelse{\equal{\HUST@degree}{fyp}}{
    \def\HUST@zhapplyname{毕业论文}
435
    \def\HUST@enapplyname{A Thesis Submitted in Partial Fulfillment of the Re-
  quirements for Final Year Project}
```

```
437 }{}
  \ifthenelse{\equal{\HUST@degree}{bachelor}}{
439
    \def\HUST@zhapplyname{学士学位论文}
440
    \def\HUST@enapplyname{A Thesis Submitted in Partial Fulfillment of the Re-
441
  quirements for the Degree of Bachelor}
442 }{}
113
   \ifthenelse{\equal{\HUST@degree}{master}}{
    \def\HUST@zhapplyname{硕士学位论文}
    \def\HUST@enapplyname{A Thesis Submitted in Partial Fulfillment of the Re-
  quirements for the Degree of Master}
447 }{}
448
  \ifthenelse{\equal{\HUST@degree}{phd}}{
    \def\HUST@zhapplyname{博士学位论文}
    \def\HUST@enapplyname{A Thesis Submitted in Partial Fulfillment of the Re-
  quirements for the Ph.D}
452 }{}
  \ifthenelse{\equal{\HUST@language}{chinese}}{
    \hypersetup{pdfsubject={\HUST@zhschoolname\HUST@zhapplyname}}
456 }{
    \hypersetup{pdfsubject={\HUST@enapplyname}}
457
458 }
     Set \listfigurename and \listtablename.
459 \def\listfigurename{\HUST@listfigurename}
460 \def\listtablename{\HUST@listtablename}
```

8 Style Setting

8.1 Equation Style

Allow long equation breaking between lines or pages.

```
461 \allowdisplaybreaks[4]
```

Set skip between equation and context.

```
462 \abovedisplayskip=10bp plus 2bp minus 2bp
463 \abovedisplayshortskip=10bp plus 2bp minus 2bp
464 \belowdisplayskip=\abovedisplayskip
465 \belowdisplayshortskip=\abovedisplayshortskip
```

Set equation numbering style.

466 \numberwithin{equation}{chapter}

8.2 Theorem Style

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

```
467 \theoremnumbering{arabic}
  \ifthenelse{\equal{\HUST@language}{chinese}}{
     \theoremseparator{: }
470 }{
     \theoremseparator{:}
472
  \theorempreskip{1.2ex plus 0ex minus 1ex}
   \theorempostskip{1.2ex plus 0ex minus 1ex}
   \theoremheaderfont{\normalfont\bfseries\HEI}
   \theoremsymbol{}
476
477
  \theoremstyle{definition}
   \theorembodyfont{\normalfont}
   \ifthenelse{\equal{\HUST@language}{chinese}}{
     \newtheorem{definition}{定义}[chapter]
481
482 }{
     \newtheorem{definition}{Definition}[chapter]
484 }
485
   \theoremstyle{plain}
486
   \theorembodyfont{\itshape}
   \ifthenelse{\equal{\HUST@language}{chinese}}{
     \newtheorem{proposition}{命题}[chapter]
489
     \newtheorem{lemma}{引理}[chapter]
490
     \newtheorem{theorem}{定理}[chapter]
491
     \newtheorem{axiom}{公理}[chapter]
492
     \newtheorem{corollary}{推论}[chapter]
     \newtheorem{exercise}{练习}[chapter]
     \newtheorem{example}{例}[chapter]
195
     \def\proofname{\hei{证明}}
496
497 }{
     \newtheorem{proposition}{Proposition}[chapter]
     \newtheorem{lemma}{Lemma}[chapter]
499
     \newtheorem{theorem}{Theorem}[chapter]
500
```

```
\newtheorem{axiom}{Axiom}[chapter]

newtheorem{corollary}{Corollary}[chapter]

newtheorem{exercise}{Exercise}[chapter]

newtheorem{example}{Example}[chapter]

def\proofname{\textbf{Proof}}
```

8.3 Floating Objects Style

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

\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.

\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.

```
509 \renewcommand{\textfraction}{0.15}
510 \renewcommand{\textfraction}{0.85}
511 \renewcommand{\bottomfraction}{0.65}
512 \renewcommand{\floatpagefraction}{0.60}
```

8.4 Table Style

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

```
514 \def\@cline#1-#2\@nil{%
     \omit
515
     \@multicnt#1%
516
     \advance\@multispan\m@ne
517
     \ifnum\@multicnt=\@ne\@firstofone{&\omit}\fi
518
     \@multicnt#2%
519
     \advance\@multicnt-#1%
520
     \advance\@multispan\@ne
521
     \leaders\hrule\@height\arrayrulewidth\hfill
```

 $^{^3} Reference: \verb|http://tex.stackexchange.com/questions/52100/longtable-multirow-problem-with-cline-and-nopagebreak$

```
523 \cr
524 \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.

```
525 \newif\ifHUST@useoldtabular
526 \HUST@useoldtabularfalse
```

 ${\tt OffTabFontSetting}\ \ \, {\tt Use\TurnOffTabFontSetting}\ \, {\tt to}\ \, {\tt deactivate}\ \, {\tt global}\ \, {\tt font\,setting}.$

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

 ${\tt nOnTabFontSetting}$ Use \TurnOnTabFontSetting to activate global font setting.

528 \def\TurnOnTabFontSetting{\HUST@useoldtabularfalse}

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

```
529 \AtBeginEnvironment{tabular}{
     \ifHUST@useoldtabular\else
       \changefont{size=11pt,linespread=1.4}
531
     \fi
532
533 }
   \AtBeginEnvironment{tabularx}{
     \ifHUST@useoldtabular\else
535
       \changefont{size=11pt,linespread=1.4}
536
     \fi
538 }
   \AtBeginEnvironment{longtable}{
     \ifHUST@useoldtabular\else
540
       \changefont{size=11pt,linespread=1.4}
541
     \fi
542
543 }
```

8.5 Caption Style

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

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

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

\captionsetup{

font=HUST@captionfont,

labelformat=HUST@caplabel,
```

```
format=hang,
labelsep=quad,
skip=12pt

Set figure and table numbering style.

Set figure and table numbering style.

renewcommand{\thetable}{\arabic{chapter}.\arabic{table}}
\renewcommand{\thefigure}{\arabic{chapter}-\arabic{figure}}
```

8.6 Code Highlight Style

```
\definecolor{HUST@lstgreen}{rgb}{0,0.6,0}
   \definecolor{HUST@lstmauve}{rgb}{0.58,0,0.82}
  \lstset{
558
     basicstyle=\footnotesize\ttfamily\changefont{linespread=1}\FANGSONG,
559
     keywordstyle=\color{blue}\bfseries,
560
     commentstyle=\color{HUST@lstgreen}\itshape\KAI,
561
     stringstyle=\color{HUST@lstmauve},
562
     showspaces=false,
563
     showstringspaces=false,
564
     showtabs=false,
565
     numbers=left,
566
     numberstyle=\tiny\color{black},
     frame=lines,
     rulecolor=\color{black},
569
     breaklines=true
570
571 }
```

8.7 Section Title Style

Set the numbering depth for section.

```
572 \setcounter{secnumdepth}{3}
```

Chapter tilte format and spacing setting.

```
573 \titleformat{\chapter}
574 {
575    \bfseries
576    \HEI
577    \centering
578    \changefont{size=18pt}
579  }
580 {
```

```
\ifthenelse{\equal{\HUST@language}{chinese}}
                {\zhnumber{\thechapter}}
                {Chapter~\thechapter}
583
            }
584
            {1em}
585
            {}
587 \titlespacing*{\chapter}{0pt}{0pt}{20pt}
             Section tilte format and spacing setting.
\titleformat*{\section}{\bfseries\HEI\changefont{size=16pt}}
      \titlespacing*{\section}{0pt}{18pt}{6pt}
             Subsection tilte format and spacing setting.
590 \titleformat*{\subsection}{\bfseries\HEI\changefont{size=14pt}}
591 \titlespacing*{\subsection}{0pt}{12pt}{6pt}
            Subsubsection tilte format and spacing setting.
592 \titleformat*{\subsubsection}{\bfseries\HEI\changefont{size=13pt}}
593 \titlespacing*{\subsubsection}{0pt}{12pt}{6pt}
                 TOC Style
    8.8
            TOC depth.
594 \setcounter{tocdepth}{1}
            TOC right margin.
595 \contentsmargin{2.0em}
             Remove vertical space between two continues chapter entries. 4
596 \newskip\HUST@oldcftbeforechapskip
597 \HUST@oldcftbeforechapskip=\cftbeforechapskip
598 \newskip\HUST@oldcftbeforesecskip
599 \HUST@oldcftbeforesecskip=\cftbeforesecskip
     \let\HUST@oldl@chapter\l@chapter
601 \let\HUST@oldl@section\l@section
602 \let\HUST@oldl@subsection\l@subsection
603 \def\l@chapter#1#2{\HUST@oldl@chapter{#1}{#2}\cftbeforechapskip=3pt}
\label{loss} $$ \def\loss = \HUST@oldl@section{#1}{#2}\cftbefore chapskip=\HUST@old-property of the following property o
       cftbeforechapskip\cftbeforesecskip=3pt}
605 \def\l@subsection#1#2{\HUST@oldl@subsection{#1}{#2}\cftbeforesecskip=\HUST@old-
      cftbeforesecskip}
          <sup>4</sup>Reference:http://tex.stackexchange.com/questions/89103/
```

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

Set LOF LOT style. ⁵

```
\renewcommand*\cftfigpresnum{\figurename^}

\newlength{\HUST@cftfignumwidth@tmp}

\settowidth{\HUST@cftfignumwidth@tmp}{\cftfigpresnum}

\addtolength{\cftfignumwidth}{\HUST@cftfignumwidth@tmp}

\renewcommand{\cftfigaftersnumb}{\quad^}

\renewcommand*\cfttabpresnum{\tablename^}

\newlength{\HUST@cfttabnumwidth@tmp}

\settowidth{\HUST@cfttabnumwidth@tmp}{\cfttabpresnum}

\addtolength{\cfttabnumwidth}{\HUST@cfttabnumwidth@tmp}

\renewcommand{\cfttabaftersnumb}{\quad^}
```

8.9 Head & Foot Style

```
616 \let\ps@plain\ps@fancy
617 \pagestyle{fancy}
618 \fancyhf{}
  \renewcommand{\headrulewidth}{Opt}
   \renewcommand{\footrulewidth}{Opt}
   \ifthenelse{\equal{\HUST@language}{english-draft}}{
     \fancyfoot[C]{\thepage}
624 }{
     \ifHUST@finalformat
625
       \fancyfoot[C]{\thepage}
626
     \else
       \fancyhead[C]{
628
         \ziju{1em}{\kai{\changefont{size=14pt}\HUST@zhschoolname\HUST@zhap-
629
  plyname}}
         \vskip -5pt
630
         \vbox{
           \hrule width \textwidth height 0.4pt
632
           \vskip 1.0pt
633
           \hrule width \textwidth height 0.4pt
634
         }
       }
636
       \fancyfoot[C]{
637
         \hrule width \textwidth height 0.4pt
638
         \vskip 0.3\normalbaselineskip
639
         \thepage
```

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

```
641 }
642 \fi
643 }
```

8.10 List Environment Style

```
\setlist{noitemsep,partopsep=0pt,topsep=.8ex}
\setlist[1]{labelindent=\parindent}

646 \setlist[enumerate,1]{label=\arabic*.,ref=\arabic*}

647 \setlist[enumerate,2]{label*=\arabic*,ref=\theenumi.\arabic*}

648 \setlist[enumerate,3]{label=\emph{\alph*}),ref=\theenumii\emph{\alph*}}

649 \setlist[description]{font=\bfseries\HEI}
```

8.11 Footnote Style

650 \MakePerPage{footnote}

9 Specical Page

```
\frontmatter
 \mainmatter 651 \def\frontmatter{
 \backmatter 652
                  \clearpage
                  \@mainmatterfalse
                  \pagenumbering{Roman}
             654
             655 }
                \def\mainmatter{
                  \clearpage
                  \@mainmattertrue
             658
                  \pagenumbering{arabic}
             660 }
                \def\backmatter{
                  \clearpage
                  \@mainmatterfalse
             663
                  \settocdepth{chapter}
             664
                  \hypersetup{bookmarksopenlevel=0}
             665
             666 }
                   Chinese title page.
             667 \def\HUST@zhtitlepage{
                  \begin{center}
                  \vspace*{-1.0cm}
             669
                  \parbox[t][2.2cm][t]{\textwidth}{
             670
                    \begin{center}
             671
```

```
\setlength{\tabcolsep}{0pt}
                                                   \setlength{\extrarowheight}{12pt}
                                                   \TurnOffTabFontSetting
674
                                                   \changefont{size=14pt,linespread=1.2}
                                                   \begin{tabularx}{\textwidth}{p{4em}p{5em}Xp{2em}p{12em}}
676
                                                               \HUST@classnotitle
                                                                                                                                                                                            & \mbox[5em][1]{\rule[-2.0pt]{5em}{1pt}\hspace{-5em}
677
                                                                                                                                                                                            & \makebox[12em][1]{\rule[-2.0pt]{12em}{1pt}\hspace{-1
                                                              \HUST@stunotitle
678
                                                              \HUST@schoolcodetitle & \makebox[5em][1]{\rule[-2.0pt]{5em}{1pt}\hspace{-5em}
679
                                                              \HUST@secrettile
                                                                                                                                                                                            & \mbox[12em][1]{\rule[-2.0pt]{12em}{1pt}\hspace{-1}}
680
                                                   \end{tabularx}
681
                                                   \TurnOnTabFontSetting
                                       \end{center}
                                       }
684
                           \parbox[t][6cm][t]{\textwidth}{
685
                                       \vspace{1.0cm}
686
                                       \begin{center}
687
                                       \includegraphics[scale=1.1]{hust-title.pdf}\\[0.8cm]
688
                                       \ziju{10bp}{\changefont{size=42pt}\HEI\HUST@zhapplyname}
689
                                       \end{center}
690
                           }
691
                           \protect\operatorname{\mathtt{parbox}}[t][4.8cm][t]{.8}\
692
                                       \vspace{1.4cm}
693
                                       \begin{center}
694
                                       \changefont{size=22pt,linespread=1.6}\hei{\HUST@zhtitle}
695
                                       \end{center}
696
                           }
697
                           \parbox[t][7.4cm][t]{\textwidth}{
698
                                       \vspace{1.2cm}
699
                                       \begin{center}
700
                                       \changefont{size=18pt,linespread=1.5}
701
                                       \setlength{\extrarowheight}{0pt}
                                       \TurnOffTabFontSetting
703
                                       \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \begin{array}{ll} \end{array} & \begin{array}{ll} \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} 
704
                                       \HUST@zhauthortitle
                                                                                                                                                                                            & {\HUST@zhauthor} \\
705
                                       \HUST@zhmajortitle
                                                                                                                                                                               & {\HUST@zhmajor} \\
706
                                       \HUST@zhsupervisortitle & {\HUST@zhsupervisor} \\
707
                                       \label{thm:limit} $$ \left( \operatorname{HUST}_{zhasssupervisor}_{} \right) $$
708
                                                   \HUST@zhasssupervisortitle & {\HUST@zhasssupervisor} \\
709
                                       }
710
                                       \HUST@zhdatetitle & \zhdateformat
                                       \end{tabular}
```

```
\TurnOnTabFontSetting
       \end{center}
     }
715
     \end{center}
716
717 }
     English title page.
   \def\HUST@entitlepage{
     \begin{center}
       \protect\ [t] [4.5cm] [t] {.9\textwidth}{
720
         \begin{center}
721
            \changefont{size=16pt,linespread=1.1}
722
            \HUST@enapplyname
         \end{center}
       }
       \parbox[t][5.7cm][t]{\textwidth}{
726
         \begin{center}
727
           \changefont{size=18pt,linespread=1.3}
728
           \textbf{\textsf{\HUST@entitle}}
         \end{center}
730
       }
731
       \parbox[t][5cm][t]{.8}\textwidth}{
732
         \begin{center}
733
         \setlength{\extrarowheight}{5pt}
         \changefont{size=16pt,linespread=1.5}
735
         \TurnOffTabFontSetting
736
         \begin{tabular}{10{~:~}p{18em}}
737
            \HUST@enauthortitle
                                      & {\HUST@enauthor} \\
738
           \HUST@enmajortitle
                                      & {\HUST@enmajor} \\
739
           \HUST@ensupervisortitle & {\HUST@ensupervisor}
740
           \ \left( \operatorname{HUSTCenasssupervisor} \right) 
741
              \\ \HUST@enasssupervisortitle & {\HUST@enasssupervisor}
742
           }
743
         \end{tabular}
         \TurnOnTabFontSetting
745
         \end{center}
746
747
       \parbox[t][7cm][b]{.8\textwidth}{
748
         \begin{center}
749
         \bfseries
750
         \changefont{size=14pt,linespread=2.0}
751
         \HUST@enschoolname \\
752
```

```
\HUST@enaddress \\
         \endateformat
       \end{center}
755
       }
756
     \end{center}
757
758 }
     Copyright page.
   \def\HUST@authorization{
     \centerline{\changefont{size=16pt} \HEI \HUST@originaldeclare}
     \vspace{1cm}
761
762
       \changefont{size=12pt,linespread=2.0}
763
       \indent\HUST@originaldeclaretext
764
     }
765
     \\[1.9cm]
766
     \parbox[t]{\textwidth}{
767
       \changefont{size=12pt,linespread=1.5}
768
       \TurnOffTabFontSetting
769
       \hfill\begin{tabular}{ll}
770
           \HUST@zhauthorsig & \hspace{2em}\\
           \HUST@zhdatefield & \hspace{2em}\\
772
       \end{tabular}
773
       \TurnOnTabFontSetting
     }
775
     \\[1.9cm]
776
     \centerline{\changefont{size=16pt} \HEI \HUST@authtitle}
777
     \\[1cm]
778
     {
779
       \changefont{size=12pt,linespread=2.0}
780
       \indent\HUST@authorizationtext \\
781
       \indent\HUST@authorizationaddon \\
782
       \indent\HUST@authorizationcheck
783
     }
784
     \[1.9cm]
785
     \hspace{2em}\parbox[t]{.9\textwidth}{
786
       \changefont{size=12pt,linespread=1.5}
787
       \TurnOffTabFontSetting
788
       \begin{tabular}{11}
789
           \HUST@zhauthorsig & \hspace{2em}\\
790
           \HUST@zhdatefield & \hspace{2em}\\
791
       \end{tabular}
792
```

```
\begin{tabular}{ll}
                      \HUST@zhteachersig & \hspace{2em}\\
           795
                      \HUST@zhdatefield & \hspace{2em}\\
           796
                  \end{tabular}
          797
                  \TurnOnTabFontSetting
           798
                }
           799
                \vfill
          801 }
           Commands to generate title page.
\makecover 802 \def\maketitle{
                \let\HUST@oldthepage\thepage
                \ifthenelse{\equal{\HUST@language}{english-draft}}
          20/
                {\def\thepage{Titlepage}}
          805
                {\def\thepage{封面}}
          806
                \begin{titlepage}
                  \ifthenelse{\equal{\HUST@language}{english-draft}}{}{
                    \thispagestyle{empty}
          809
                    \HUST@zhtitlepage
          810
                    \clearpage
          811
                  }
                  \thispagestyle{empty}
          813
                  \HUST@entitlepage
          814
                \end{titlepage}
          815
                \ifthenelse{\equal{\HUST@language}{english-draft}}{}{
          816
                  \def\thepage{版权页}
                  \thispagestyle{empty}
          818
                  \HUST@authorization
          819
                  \clearpage
          820
                }
          821
                \let\thepage\HUST@oldthepage
          822
                \setcounter{page}{1}
          823
          824 }
             \let\makecover\maketitle
                Chinese abstract page.
             \def\HUST@zhabstractpage{
                \chapter*{\HUST@zhabstractname}
          827
                \begingroup
                \changefont{size=10.5pt}
          829
                \HUST@zhabstract \par
          830
```

\hfill

```
\vskip 1.2ex
                      \noindent\hei{\HUST@zhkeywordstitle}\hspace{.8em} \HUST@zhkeywords
                      \endgroup
                 833
                 834 }
                      English abstract page.
                 835 \def\HUST@enabstractpage{
                      \chapter*{\textsf{\HUST@enabstractname}}
                      \begingroup
                 837
                      \changefont{size=10.5pt}
                      \HUST@enabstract \par
                 839
                      \vskip 1.2ex
                 840
                      \noindent\textbf{\HUST@enkeywordstitle}\hspace{.8em} \HUST@enkey-
                    words
                      \endgroup
                 843 }
                   A command to generate abstract page.
   \makeabstract
                    \def\makeabstract{
                      \phantomsection
                      \ifthenelse{\equal{\HUST@language}{chinese}}{
                 846
                        \addcontentsline{toc}{chapter}{\HUST@zhabstractnamenospace}
                 847
                      }{
                 848
                        \addcontentsline{toc}{chapter}{\HUST@enabstractname}
                 849
                      }
                 850
                      \ifthenelse{\equal{\HUST@language}{english-draft}}{}{
                 851
                        \HUST@zhabstractpage
                 852
                        \clearpage
                 853
                      }
                 854
                      \HUST@enabstractpage
                      \clearpage
                 857 }
\tableofcontents
                   A command to generate table of contents.
                    \let\HUST@tableofcontents\tableofcontents
                    \def\tableofcontents{
                      \ifthenelse{\equal{\HUST@language}{chinese}}{
                 860
                        \pdfbookmark{\contentsnamenospace}{\contentsnamenospace}
                 861
                      }{
                 862
                        \pdfbookmark{\contentsname}{\contentsname}
                 863
                      \HUST@tableofcontents
```

```
\clearpage
              867 }
          ack A command to generate acknowledge page.
                 \newenvironment{ack}{
                   \clearpage
                   \phantomsection
              870
                   \addcontentsline{toc}{chapter}{\HUST@acknamenospace}
              871
                   \chapter*{\HUST@ackname}
              872
                   \begingroup
              873
                   \changefont{size=10.5pt}
              875 }{
                   \endgroup
              876
              877 }
               A command to generate publications page.
publications
                 \newenvironment{publications}{
                   \clearpage
              879
                   \ifHUST@inappendix
                     \chapter{\HUST@publicationtitle}
                   \else
              882
                     \phantomsection
              883
                     \addcontentsline{toc}{chapter}{\HUST@publicationtitle}
              884
                     \chapter*{\HUST@publicationtitle}
              885
                   \fi
              886
                   \begin{enumerate}[labelindent=0pt,label={[\arabic*]},itemsep=0.5ex]
              887
                   \changefont{size=10.5pt,linespread=1}
              889 }{
                   \end{enumerate}
              891 }
               A command to generate bibliography page.
\bibliography
                \bibliographystyle{hustthesis}
                \let\HUST@bibliography\bibliography
                 \def\bibliography#1{
                   \clearpage
              895
                   \phantomsection
              896
                   \addcontentsline{toc}{chapter}{\bibname}
              897
                   \begingroup
              898
                   \changefont{size=10.5pt,linespread=1}
              899
                   \setlength\bibsep{0.5ex}
              900
                   \HUST@bibliography{#1}
              901
```

```
\endgroup
               903 }
      appendix
                The appendix environment.
               904 \newif\ifHUST@inappendix
               905 \HUST@inappendixfalse
                  \newif\ifHUST@appendix@resetmainmatter
                  \HUST@appendix@resetmainmatterfalse
                  \renewenvironment{appendix}{
                    \if@mainmatter
               909
                       \HUST@appendix@resetmainmatterfalse
               910
                    \else
               911
                       \HUST@appendix@resetmainmattertrue
               912
                       \@mainmattertrue
               913
                    \fi
               914
                    \appendixtitletocon
               915
                    \appendices
                    \titleformat{\chapter}
               917
               918
                       \bfseries\HEI
               919
                       \centering
               920
                       \changefont{size=18pt}
               922
                    {\appendixname\,\thechapter}
               923
               924
                    {}
                    \HUST@inappendixtrue
               926
               927 }{
                    \endappendices
               928
                    \HUST@inappendixfalse
               929
                    \ifHUST@appendix@resetmainmatter
               930
                       \HUST@appendix@resetmainmatterfalse
               931
                       \@mainmatterfalse
               932
                    \else\fi
               933
               934 }
                 A command to generate list of figures.
\listoffigures
               935 \let\HUST@listoffigures\listoffigures
               936 \def\listoffigures{
                    \clearpage
               937
                    \ifHUST@inappendix
```

```
\else
              941
                     \def\listfigurename{\HUST@listfigurename}
              942
              943
                   \phantomsection
              944
                   \ifHUST@inappendix
                     \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\HUST@list-
              946
                 figurename}
                   \else
              947
                     \addcontentsline{toc}{chapter}{\listfigurename}
                   \fi
              949
                   \HUST@listoffigures
              950
                   \def\listfigurename{\HUST@listfigurename}
              951
              952 }
               A command to generate list of tables.
\listoftables
                \let\HUST@listoftables\listoftables
                 \def\listoftables{
                   \clearpage
                   \ifHUST@inappendix
              956
                     \addtocounter{chapter}{1}
              957
                     \def\listtablename{\appendixname\,\thechapter\hspace{1em}\HUST@listtablename}
              958
                   \else
                     \def\listtablename{\HUST@listtablename}
              960
                   \fi
              961
                   \phantomsection
              962
                   \ifHUST@inappendix
              963
                     \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\HUST@list-
                 tablename}
                   \else
              965
                     \addcontentsline{toc}{chapter}{\listtablename}
              966
                   \fi
              967
                   \HUST@listoftables
                   \def\listtablename{\HUST@listtablename}
              969
              970 }
```

\def\listfigurename{\appendixname\,\thechapter\hspace{1em}\HUST@listfigurename}

10 Other Command

\addtocounter{chapter}{1}

940

```
\email
971 \def\email#1{
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