

An Elegant LATEX Template for Books

Classic Elegant IATEX Template

Author: Ethan Deng & Liam Huang Institute: ElegantLAT_EX Program Date: August 18, 2019 Version: 3.09



ElegantIATEX Program

Victory won't come to us unless we go to it.

Contents

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| 1 | Eleg                                                                                     | antI₄T <sub>E</sub> X Templates                                                                                                | 1                     |
|---|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|   | 1.1                                                                                      | ElegantBook Updates                                                                                                            | 1                     |
|   | 1.2                                                                                      | Installation and Update                                                                                                        | 1                     |
|   | 1.3                                                                                      | Online Usage of Templates                                                                                                      | 2                     |
|   | 1.4                                                                                      | User's Selected Works Plan                                                                                                     | 3                     |
|   | 1.5                                                                                      | About Pull Request                                                                                                             | 3                     |
|   | 1.6                                                                                      | Recruit Support Members                                                                                                        | 3                     |
|   | 1.7                                                                                      | Acknowledgement                                                                                                                | 3                     |
|   | 1.8                                                                                      | Donation                                                                                                                       | 3                     |
|   |                                                                                          |                                                                                                                                |                       |
| 2 | Eleg                                                                                     | antBook Settings                                                                                                               | 5                     |
| 2 | <b>Eleg</b><br>2.1                                                                       | gantBook Settings                                                                                                              | <b>5</b><br>5         |
| 2 | -                                                                                        | ,                                                                                                                              |                       |
| 2 | 2.1                                                                                      | Languages                                                                                                                      | 5                     |
| 2 | 2.1<br>2.2                                                                               | Languages                                                                                                                      | 5<br>5                |
| 2 | <ul><li>2.1</li><li>2.2</li><li>2.3</li></ul>                                            | LanguagesDevice Mode OptionColor Themes                                                                                        | 5<br>5<br>5           |
| 2 | <ul><li>2.1</li><li>2.2</li><li>2.3</li><li>2.4</li></ul>                                | Languages       .         Device Mode Option       .         Color Themes       .         Chapter Title Display Styles       . | 5<br>5<br>5<br>6      |
| 2 | <ul> <li>2.1</li> <li>2.2</li> <li>2.3</li> <li>2.4</li> <li>2.5</li> </ul>              | LanguagesDevice Mode OptionColor ThemesChapter Title Display Styles.Theorem Class Environments.                                | 5<br>5<br>6<br>6      |
| 2 | <ul> <li>2.1</li> <li>2.2</li> <li>2.3</li> <li>2.4</li> <li>2.5</li> <li>2.6</li> </ul> | Languages                                                                                                                      | 5<br>5<br>6<br>6<br>8 |

|   | 2.9   | Bibliography               | 8  |
|---|-------|----------------------------|----|
|   | 2.10  | Preface                    | 9  |
|   | 2.11  | Introduction Environment   | 9  |
|   | 2.12  | Problem Set                | 10 |
|   | Chap  | ter 2 Exercise             | 10 |
|   | 2.13  | Margin Notes               | 10 |
|   | 2.14  | Hyphens                    | 11 |
|   | 2.15  | Symbol Fonts               | 12 |
| 3 | Elega | antBook Writing Sample     | 13 |
|   | 3.1   | Writing Sample             | 13 |
|   | Chap  | ter 3 Exercise             | 15 |
| 4 | FAQ   |                            | 16 |
| A | Matl  | nematical Tools            | 18 |
|   | A.1   | Summation Operator and De- |    |
|   |       | scription Statistics       | 18 |
| B | A Mi  | inimal Example             | 19 |

# Chapter 1 ElegantIATEX Templates

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ElegantLATEX Program developers are intended to provide you beautiful, elegant, userfriendly templates. Currently, the ElegantLATEX is composed of ElegantNote, ElegantBook, ElegantPaper, designed for typesetting notes, books, and working papers respectively. Latest releases are strongly recommended! This guide is aimed at briefly introducing the 101 of this template. For any other question, suggestion or comment, feel free to contact us on GitHub issues or email us at elegantlatex2e@gmail.com.

Contact Infos:

- Homepage: https://elegantlatex.org/
- Github: https://github.com/ElegantLaTeX/
- CTAN: https://ctan.org/pkg/elegantbook
- Wiki: https://github.com/ElegantLaTeX/ElegantBook/wiki
- Download: release, latest version
- Weibo: ElegantLaTeX
- Wechat: ElegantLaTeX
- QQ: 692108391
- Email: elegantlatex2e@gmail.com

1.1 ElegantBook Updates

What's new in this version:

- 1. Remove \elegantpar;
- 2. Fix math symbol font settings;
- 3. Introduce option twocol for toc;
- 4. Revise footnote layout;
- 5. Other modifications.
- **Note** Users for 2.x, please refer to conversion.

1.2 Installation and Update

Both portable version and installation package are available for this template.

For portable version, simply download lastest ElegantBook-master from Github or CTAN (to be more accurate, download elegantbook.cls) and save the file(s) under your working directory. This way of installation is simple and convenient, but you have to manually update cls now and then.

If you are a T_EX Live 2019 user, using the tlshell¹ of T_EX Live 2019 direct installation package is strongly recommended. Simply search and open tlshell, click on File -> Load Default Repository or customize repository by Options. Wait till the repository loads successfully, search elegantbook by name, installation and update is just a click away.

| 🎒 TeX Live Shell | | | - | - 🗆 🗙 |
|---|--------------------------|--------------------|---------------------------------------|---|
| File Actions Options | Help | | | |
| Load default repositor
Exit
TL Manager up to date?
Last tlmgr command: | p://mirrors.tuna.tsinght | | Ro | Multi-user
ot at C:/texlive/2019
tlmgr: r50861
tlshell: r50776 |
| Package list | | | | |
| Status Detail > | > Global | | | Install marked |
| Installed | | Mark all | | Update marked |
| | ections and schemes | Mark none | | Remove marked |
| ○ Updatable ○ Only | / schemes | | | Update tlmgr |
| Search elegant | Ø By na | ame 🔿 By name a | and description | Update all |
| Name | Local rev. (ver.) | Remote rev. (ver.) | Description | ^ |
| O elegantbook | 51002 (3.07) | 51002 (3.07) | An Elegant LaTeX Template for Books | |
| O elegantnote | 49926 (2.10) | 49926 (2.10) | Elegant LaTeX Template for Notes | |
| O elegantpaper | 50679 (0.07) | 50679 (0.07) | An Elegant LaTeX Template for Working | Papers |
| Idle | | | Show logs Restart timgr Restart | self Quit |

Figure 1.1: Use T_EX Live Shell to Install ElegantBook Template

If you are a T_EX Live 2018 user and would like to update to T_EX Live 2019, the official solution is to uninstall 2018. If you want to save the bother of uninstallation and installation, please copy elegantbook.cls to the installation directory of T_EX Live 2018 (default: C: \texlive\2018\texmf-dist\tex\latex\elegantbook), run texhash in cmd.

Excuse me? You are a CTEX user? Sorry, this template is incompatible with CTEX.

For more details about the installation and usage of T_EX Live 2019, the compatibility of CT_EX and T_EX Live, please refer to OG (Official Guide) and/or Install LaTeX v5.1 by OsbertWang.

1.3 Online Usage of Templates

Considering the online usage of the templates, all the templates are available on Overleaf. Those who enjoy smooth network may feel free to use the templates without T_EX Live and to visit your documents anywhere anytime. Search elegantlatex on Overleaf or visit search result, choose the one you prefer and save it to your account, then you can edit yourself or corporate with others if you like. For more infomation about Overleaf, please refer to Overleaf OG.

¹namely, T_EX Live Manager

1.4 User's Selected Works Plan

Eight years have passed since the found of ElegantLATEX Program. It's an honor that our templates are preferred by a lot of users. Hence, in order to promote more interactions among our users and know more about what you need, we are planning to provide a platform to display selected works of our users on Github or our homepage. If you want to show us your work(s), contact us via Email or other ways. Or if you have upload your work(s) on Github or Gitee etc., share the URL(s) with us.

Wanted!

1.5 About Pull Request

For some reasons, pull request is unacceptable since May 20, 2019. For those who want to help revise the templates, submit issues or clone to your own repository to modify under the constriction of LPPL-1.3c.

1.6 Recruit Support Members

Recruit Support Members for ElegantLATEX to translate template OGs(Chinese -> English), maintain wiki entries using Markdown, update Wechat articles. No deadline for this recruitment.

So far, Elegant ATEX has four Support Members:

- OG Translator: YPY;
- Wiki Maintainer: Ingo Zinngo, Xiaohao890809;
- QQ Group Manager: Sikouhjw.

1.7 Acknowledgement

The number of stars on Github for ElegantBook reached 100 on May 20, 2019².

Thank ChinaT_EX and $L^{T}EX$ studio for their promotion. $L^{T}EX$ studio offers tons of valuable posts and templates for discovery. It is the most comprehensive website on $L^{T}EX$ in China. Thank muzimuzhi for the revision of the template.

If you like our template, star on Github.

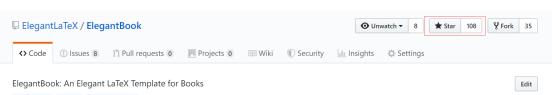
1.8 Donation

To express your love for our templates and/or our developers, please do not hesitate to tip us. Since last release of 3.08, we have received about a thousand RMB! (The emergence of a millionaire is on the way. Loading...)

~~~~~

<sup>&</sup>lt;sup>2</sup>189 stars by August 18, 2019!

Chapter 1 Elegant LTEX Templates



latex-class book latex-template Manage topics

Figure 1.2: Twinkle, Twinkle, Little Star

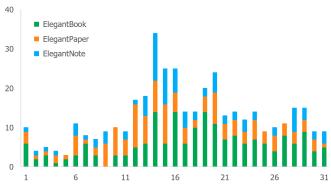


Figure 1.3: Github Star Trends for ElegantLATEX (by week)



The explanation right of the tip usage belongs to  $Elegant \underline{LATEX}$  with no supervision. Feel free to tip us. Those who donate more than 10 RMB will be recorded in the Donation List. Thank all the tippers!

Table 1.1:    Donation List			
Tipper	Amount	Date	Channel
Lerh	10 RMB	2019/05/15	Wechat
Yueguodipingxian	10 RMB	2019/05/15	Wechat
Dapeng	20 RMB	2019/05/27	Wechat
Anonymous	10 RMB	2019/05/30	Wechat
latexstudio.net	666 RMB	2019/06/05	Alipay
Cassis	11 RMB	2019/06/30	Wechat
Anonymous	10 RMB	2019/07/23	Wechat

- 4/19 -

# **Chapter 2 ElegantBook Settings**

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This template is based on the Standard $\bot T_E X$ book class, so the options of book class work as well (Note that the option of papersize has no effect due to device option). The default encoding is UTF-8 while $T_E X$ Live is recommended. The test environment is Win10 + $T_E X$ Live 2019, either PDFLaTeX or XeLaTeX works fine.

2.1 Languages

We defined one option named lang which has two alternative values, lang=en (default) and lang=cn. Different values will alter the captions of figure/table, abstract name, refname, etc. You can use this option as

\documentclass[en]{elegantbook}
\documentclass[lang=en]{elegantbook}

Remark Chinese Characters are acceptable whenever lang=en or lang=cn. If you would like to include Chinese characters under (lstlisting) environment, please use XeLaTeX to compile.

2.2 Device Mode Option

The option for device (device) was originally used in ElegantNote, now we include this option in ElegantBook¹ as well. Activate iPad mode in the following way²:

```
\documentclass[pad]{elegantbook} %or
\documentclass[device=pad]{elegantbook}
```

2.3 Color Themes

This template contains 5 color themes, i.e. green³, cyan, blue(default), gray, black. You can choose green with

```
\documentclass[green]{elegantbook} %or
\documentclass[color=green]{elegantbook}
```

If you want to customize the colors, please select nocolor or use **color=none** and declare the main, second, and third colors in the preamble section as follows:

¹Pictures have to be modified accordingly

²Default size: normal, A4 paper

³Original default theme.

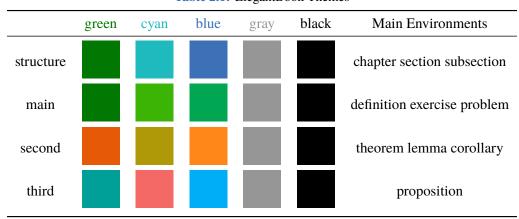


Table 2.1: ElegantBook Themes

\definecolor{structurecolor}{RGB}{60,113,183} \definecolor{main}{RGB}{0,166,82}% \definecolor{second}{RGB}{255,134,24}% \definecolor{third}{RGB}{0,174,247}%

2.4 Chapter Title Display Styles

This template contains 2 sets of *title display styles*, hang(default) and display style. For the former, chapter title is displayed on a single line (hang). For the latter, chapter title is displayed on a double line (display). In this guide, we use hang. To change display style

```
\documentclass[hang]{elegantbook} %or
\documentclass[titlestyle=hang]{elegantbook}
```

2.5 Theorem Class Environments

We defined two sets of theorem modes, simple style and fancy style (default). You may change to simple mode by

```
\documentclass[simple]{elegantbook} %or
\documentclass[mode=simple]{elegantbook}
```

In this template, we defined four different theorem class environments

• *Theorem Environment*, including title and content, numbering corresponding to chapter. Three types depending on the format:

- **definition** environment, the color is main;
- theorem, lemma, corollary environment, the color is second;
- proposition environment, the color is third.

- Example Environments, including example, exercise, problem environment, auto numbering corresponding to chapter.
- *Proof Environment*, including **proof**, **note** environment containing introductory symbol (note environment) or ending symbol (proof environment).
- Conclusion Environments, including conclusion, assumption, property, remark, solution⁴ environment, all of which begin with boldfaced words, with format consistent with normal paragraphs.

2.5.1 Theorem Class Environments

Since the template uses the tcolorbox package to customize the theorem class environments, it is slightly different from the normal theorem environments. The usage is as follows:

```
\begin{theorem}{<theorem name>}{<label>}
The content of theorem.
\end{theorem}
```

The first parameter <theorem name> represents the name of the theorem, and the second parameter label represents the label used in cross-reference with ref{thm:label}. Note that cross-references must be prefixed with thm:.

Other theorem class environments with the same usage includes:

| Table 2.2: Theorem Class Environments | | | |
|---|------------|--------|----------------------------|
| Environment | Label text | Prefix | Cross-reference |
| definition | label | def | \ref{def:label} |
| theorem | label | thm | \ref{thm:label} |
| lemma | label | lem | <pre>\ref{lem:label}</pre> |
| corrlary | label | cor | <pre>\ref{cor:label}</pre> |
| proposition | label | pro | \ ref {pro:label} |

Table 2.2. Th **C1**

2.5.2 Other Customized Environments

The other three math environments can be called directly since there are no additional option

for them, e.g. example:

\begin{example} This is the content of example environment. \end{example}

The effect is as follows:

Example 2.1 This is the content of example environment.

These are all similar environments with slight differences lies in:

⁴We also define an option result, which can hide the solution and proof environments. You can switch between result=answer and result=noanswer

- Example, exercise, problem environments number within chapter;
- Note begins with introductory symbol and proof ends with ending symbol;
- Conclusion environment and so on are normal paragraph environments with boldfaced introductory words.

2.6 Base Hide Option

Hiding the end-of-chapter and end-of-page base is optional, simply type in:

```
\documentclass[hide]{elegantbook} %or
\documentclass[base=hide]{elegantbook}
```

2.7 Cover and Logo

The cover image used in this template is from pixabay.com⁵. The image is completely free and can be used under any circumstance. The cover image size is 1280×1024 . If you would like to change the cover, please crop it according to the size of the cover picture strictly. One free online image clipping site: fotor.com. Feel free to join our QQ Group to get more elegant covers.

Aspect ratio of the logo is 1:1 in this guide, i.e. a square picture. To replace the logo, do remember to choose the appropriate picture.

2.8 List Environments

This template uses tikz to customize the list environments, with itemize environment customized to the third depth and enumerate environment customized to fourth depth. The effect is as follows

- first item of nesti;
- second item of nesti;
 - first item of nestii;
 - second item of nestii;
 - first item of nestiii;
 - second item of nestiii.

- 1. first item of nesti;
- 2. second item of nesti;
 - (a). first item of nestii;
 - (b). second item of nestii;
 - I. first item of nestiii;
 - II. second item of nestiii.

2.9 Bibliography

This template uses $BiBT_EX$ to generate the bibliography, the default bibliography style is aer. Let's take a glance at the citation effect. Quadrini (2011) use data from a major peer-

~~~~

<sup>&</sup>lt;sup>5</sup>Thank ChinaT<sub>E</sub>X for providing free image source, pexels.com is strongly recommended.

to-peer lending marketplace in China to study whether female and male investors evaluate loan performance differently.

If you want to use BIBT<sub>E</sub>X, you must create a file named reference.bib, add bib items (from Google Scholar, Mendeley, EndNote, and etc.) to reference.bib file, then cite the bibkey in the tex file. The BibT<sub>E</sub>X will automatically generate the bibliography for the reference you cited. If you want to add some noncited reference to the bibliography, you can use

```
\nocite{EINAV2010,Havrylchyk2018} %or include some bibitems
\nocite{*} %include all the bibitems
```

Three more options cite=numbers, cite=super and cite=authoryear are available in this new version, with the default setting as numbers since those major in science and technology use numbers and/or cite=super more often. For those who want to use cite=super or authoryear, please type in:

```
\documentclass[cite=super]{elegantbook} % set cite for super style
\documentclass[super]{elegantbook}
\documentclass[cite=authoryear]{elegantbook} % set cite for author-year style
\documentclass[authoryear]{elegantbook}
```

## 2.10 Preface

If you want to add a preface before the first chapter with the number of chapter unchanged, please add the preface in the following way:

```
\chapter*{Preface}
\addcontentsline{toc}{chapter}{Preface}
\markboth{Preface}{}
The content of Preface.
```

## 2.11 Introduction Environment

We create a introduction environment to display the structure of chapter. The basic useage is as follows

\begin{introduction}
 \item Definition of Theorem
 \item Ask for help
 \item Optimization Problem
 \item Property of Cauchy Series
 \item Angle of Corner
 \end{introduction}

#### you will get:

	Introduction
Definition of Theorem	Property of Cauchy Series
Ask for help	Angle of Corner
Optimization Problem	

You can change the title of this environment by modifying the optional argument of this environment:

```
\begin{introduction}[Brief Introduction]
...
\end{introduction}
```

## 2.12 Problem Set

The environment problemset is used at the end of each chapter to display corresponding exercises. Just type in the following sentences:

```
\begin{problemset}
  \item exercise 1
  \item exercise 2
  \item exercise 3
  \end{problemset}
```

And you will get:

Schapter 2 Exercise

- 1. exercise 1
- 2. exercise 2
- 3. exercise 3

**Remark** If you want to customize the title of problemset, please change the optional argument like in introduction environment. In this version the problemset environment automatically appears in the table of contents but not in the header or footer.

#### 2.13 Margin Notes

In 3.08, we introduced marginpar=margintrue and \elegantpar (Beta) with piles of bugs. Hence we decide to remove them in 3.09 and will suspend the options till revolutionary optimization. Sorry for all the bugs! However, we retain the option marginpar for users to get margin motes by activating marginpar=margintrue and using \marginpar or marginnote packages.

#### Remark

Note that text and equation are both available in the margin notes.

```
% text
\marginpar{margin paragraph text}
% equation
\marginpar{
    \begin{equation}
        a^2 + b^2 = c^2
    \end{equation}
}
```

For tables and figures, note that floating environment is not allowed. You have to use includegraphics or table and use \captionof to name it. To get centralized figures or tables, use \centerline or center. To learn more, please refer to Caption of Figure in Marginpar.

```
% graph with centerline command
\marginpar{
  \centerline{
    \includegraphics[width=0.2\textwidth]{logo.png}
  }
  \captionof{figure}{your figure caption}
}
% graph with center environment
\marginpar{
  \begin{center}
    \includegraphics[width=0.2\textwidth]{logo.png}
    \captionof{figure}{your figure caption}
  \end{center}
}
```

## 2.14 Hyphens

Since the template uses newtx, please pay attention to the hyphens. For instance,

~~~~

$$\int_{\mathbf{R}^q} f(x, y) dy.off \tag{2.1}$$

The corresponding code is:

```
\begin{equation}
\int_{R^q} f(x,y) dy.\emph{of \kernOpt f}
\end{equation}
```

2.15 Symbol Fonts

Feedback from some 3.08 users claims that error occurs when using our templates with yhmath, esvect and other packages.

```
LaTeX Error:
Too many symbol fonts declared.
```

The reason is that the template redefines font for math so that no new math font is allowed to be added. To use yhmath and/or esvect, please locate yhmath or esvect in elegantbook.cls, uncomment corresponding related code.

```
%%% use yhmath pkg, uncomment following code
% \let\oldwidering\widering
% \let\widering\undefined
% \RequirePackage{yhmath}
% \let\widering\oldwidering
%%% use esvect pkg, uncomment following code
% \RequirePackage{esvect}
```

Chapter 3 ElegantBook Writing Sample

| | Introduction |) |
|----------------------------|--------------|-------------------|
| Theorem Class Envrionments | | List Environments |
| Cross Reference | | Logo and Base |
| Math Environments | | $a^2 + b^2 = c^2$ |

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

3.1 Writing Sample

We will define the integral of a measurable function in three steps. First, we define the integral of a nonnegative simple function. Let *E* be the measurable set in \mathcal{R}^N .

Definition 3.1. Left Coset

Let *H* be a subgroup of a group *G*. A left coset of *H* in *G* is a subset of *G* that is of the form xH, where $x \in G$ and $xH = \{xh : h \in H\}$. Similarly a right coset of *H* in *G* is a subset of *G* that is of the form Hx, where $Hx = \{hx : h \in H\}$ \hbar

÷

Note Note that a subgroup H of a group G is itself a left coset of H in G.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Theorem 3.1. Lagrange's Theorem

Let G be a finite group, and let H be a subgroup of G. Then the order of H divides the order of G.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Proposition 3.1. Size of Left Coset

Let H be a finite subgroup of a group G. Then each left coset of H in G has the same number of elements as H.

Proof Let *z* be some element of $xH \cap yH$. Then z = xa for some $a \in H$, and z = yb for some $b \in H$. If *h* is any element of *H* then $ah \in H$ and $a^{-1}h \in H$, since *H* is a subgroup of *G*. But zh = x(ah) and $xh = z(a^{-1}h)$ for all $h \in H$. Therefore $zH \subset xH$ and $xH \subset zH$, and thus xH = zH. Similarly yH = zH, and thus xH = yH, as required.

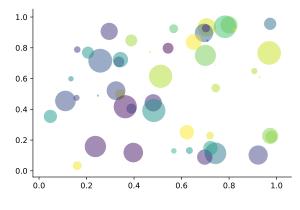


Figure 3.1: Matplotlib: Scatter Plot Example

Regression analysis is a powerful statistical method that allows you to examine the relationship between two or more variables of interest. While there are many types of regression analysis, at their core they all examine the influence of one or more independent variables on a dependent variable. The process of performing a regression allows you to confidently determine which factors matter most, which factors can be ignored, and how these factors influence each other.

Let's continue using our application training example. In this case, we'd want to measure the historical levels of satisfaction with the events from the past three years or so, as well as any

| Table 3.1: Auto MPG and Price | | | |
|-------------------------------|------------|---------|--|
| | (1) | (2) | |
| mpg | -238.90*** | -49.51 | |
| | (53.08) | (86.16) | |
| weight | | 1.75*** | |
| | | (0.641) | |
| constant | 11,253*** | 1,946 | |
| | (1,171) | (3,597) | |
| obs | 74 | 74 | |
| R^2 | 0.220 | 0.293 | |
| | | | |

information possible in regards to the independent variables.

Standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1

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- Routing and resource discovery;
 - Language Models
 - Vector Space Models
- Resilient and scalable computer networks;
- Distributed storage and search.

Schapter 3 Exercise

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- 1. Solve the equation 5(-3x 2) (x 3) = -4(4x + 5) + 13.
- 2. Find the distance between the points (-4, -5) and (-1, -1).
- 3. Find the slope of the line 5x 5y = 7.

## Chapter 4 FAQ

Question I want to customize font and background color.
Solution Please use \pagecolor to change background color, refer to this to customize font.
Question Package ctex Error: CTeX fontset 'Mac' is unavailable.
Solution Under Mac, please use XeLaTeX for Chinese documents.
Question Which version should I choose?
Solution Please use Latest Release via GitHub or TFX Live 2019.

**Question** Which editor should I choose?

**Solution** You can use  $T_{EX}$  Live 2019 built-in  $T_{EX}$  works or  $T_{EX}$  Studio. You may refer to  $T_{EX}$  works autocomplete.  $T_{EX}$  Live 2019 +  $T_{EX}$  studio is strongly recommended. I myself use VS Code and Sublime Text. Related configurations can be found at vscode-latex and sublime-text-latex.

**Question** Hello, we want to use ElegantBook to write a book about machine learning and would like your authorization.

**Solution** Feel free to use our templates by pointing out our copyright. For other issues, please refer to LPPL-1.3c. If you want to show us your work, share the URL with us afterwards.

Question I would like to use the former cover!

**Solution** *Cover option is forthcoming.* 

**Question** What is cross reference?

**Solution** This template is aimed at who are not a complete beginner for  $\&T_EX$ . Please learn more about  $\&T_FX$  before using this template.

**Question** Is the language for code highlighting optional?

Solution Yes, listings package is used in ElegantBook, hence language is optional(e.g. language=Python). For global setting, use \lstset. For more information, please refer to package documentations.

# **Bibliography**

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Appendix Mathematical Tools

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This appendix covers some of the basic mathematics used in econometrics. We briefly discuss the properties of summation operators, study the properties of linear and some nonlinear equations, and review the ratios and percentages. We also introduce some special functions that are common in econometrics applications, including quadratic functions and natural logarithms. The first four sections require only basic algebraic techniques. The fifth section briefly reviews differential Calculus Although Calculus is not necessary to understand much of this book, it is used in some of the end-of-chapter appendices and in some of the more advanced topics in part 3.

## A.1 Summation Operator and Description Statistics

**Summation Operator** is an abbreviation used to express the summation of numbers, it plays an important role in statistics and econometrics analysis. If  $\{x_i : i = 1, 2, ..., n\}$  is a sequence of *n* numbers, the summation of the *n* numbers is:

$$\sum_{i=1}^{n} x_i \equiv x_1 + x_2 + \dots + x_n \tag{A.1}$$

# Appendix A Minimal Example

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