ElegantNote: An Elegant LaTeX Template for Notes

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ElegantIATEX Program

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1 ElegantNote Instructions

The brand new ElegantNote is redesigned on the basis of LATEX article, a more elegant note template! You can use either pdfLATEX or XALATEX to compile¹. It is recommended that pdfLATEX be used for notes in English while XALATEX be used for notes in Chinese.

The new template has the following features:

- two modes: good for eye mode (geye) and hazy mode;
- different devices: Pad (default), Screen(beamer size), Kindle, PC (double-page) and normal (A4);
- 5 color themes: blue (default), green, cyan, sakura and black;
- languages support: Chinese (default), English;

¹The test environment is Win10 + T_FX Live 2019.

- support pdfIATEX and XAIATEX;
- prettier captions, list environments, and unified fonts;
- custmized global font size: 8pt, 9pt, 10pt, 11pt, 12pt, 14pt, 17pt and 20pt.

1.1 Optional Modes

This template provides optional modes: good for eye mode (geye) and hazy mode, while the paper color is green for the former and light blue for the latter. you can use the following code to activate the desired mode:

```
\documentclass[geye]{elegantnote} % or
\documentclass[mode=geye]{elegantnote}
\documentclass[hazy]{elegantnote} % or
\documentclass[mode=hazy]{elegantnote}
```

Remark If you are expected to customize background, use:

```
\definecolor{geyecolor}{RGB}{199,237,204}
\pagecolor{geyecolor}
```

1.2 Device Options

To make the notes more comfortable to read, we designed four output options (of different sizes) that correspond to different reading devices: Pad (default), Kindle, PC and A4paper.

New: For the convenience of notes presentation, version 2.20 offers a new option for device, i.e. device=screen, which is similar to the size of MS Powerpoint with ratio aspect of 4:3 (2019/12/06).

The options of output for different devices are

Note You can also select the device by using a direct assignment method, such as:

```
\documentclass[pad]{elegantnote}
\documentclass[kindle]{elegantnote}
\documentclass[pc]{elegantnote}
\documentclass[normal]{elegantnote}
\documentclass[screen]{elegantnote}
```

Note To get a normal A4paper size PDF, please select device=normal.

1.3 Color Themes²

This template contains 5 color themes, green, cyan, blue(default), sakura and black. If you don't need color, you can choose black theme. The color theme is enabled in the same way as before:

```
\documentclass[green]{elegantnote}
\documentclass[color=green]{elegantnote}
....
\documentclass[black]{elegantnote}
\documentclass[color=black]{elegantnote}
```

1.4 Languages

This template contains two sets of language environments, changing the language environment will change the title of table/figure (figure, table), article structure words (such as the table of contents, references, etc.), and the environment Introductory words (such as Theorem, Lemma, etc.). The different language modes are enabled as follows:

```
\documentclass[cn]{elegantnote}
\documentclass[lang=cn]{elegantnote}
\documentclass[en]{elegantnote}
\documentclass[lang=en]{elegantnote}
```

Note Chinese characters are allowed in Chinese mode only. To type in Chinese characters in English mode, please include $ctex^3$ or xeCJK package.

²Test for chapter footnote.

³Please use scheme=plain to retain headlines in English.

1.5 Theorem Class Environments

This template used the amsthm to create theorems, there are 4 types of theorem environments

- Theorem-Class: theorem, lemma, proposition, corollary;
- **Definition-Class**: definition, conjecture, example;
- Remark-Class: remark, note, case;
- Proof-Class: proof.

Remark With the option lang=cn, the introductory words of the theorem class environments will be changed to Chinese.

2 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 \mathbb{R}^N .

Definition 2.1 (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 $Hx = \{hx : h \in H\}$

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

Lemma 2.1 (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.

Theorem 2.2 (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.

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.

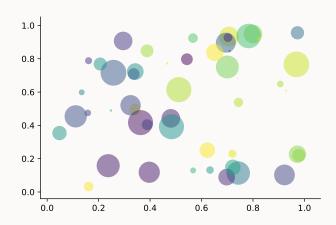


Figure 1: Matplotlib: Scatter Plot Example

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 information possible in regards to the independent variables.

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

Table 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

Standard errors in parentheses

3 Recruit Support Members

Recruit support members for ElegantLaTeX to translate template official guide, maintain wiki entries, update Wechat articles. No deadline for this recruitment.

So far, ElegantIATEX has four support members:

OG Translator: YPY;

• Wiki Maintainer: Ingo Zinngo, Xiaohao890809;

• QQ Group Manager: Sikouhjw.

Thank them all!!!

4 Acknowledgement

The number of stars on Github for ElegantPaper reached 176 on Dec. 8, 2019 at the release of ElegantNote v2.40. Thank ChinaT_EX and LAT_EX studio for their promotion.

If you like our templates, star on Github.

^{***} p<0.01, ** p<0.05, * p<0.1



Figure 2: Twinkle, Twinkle, Little Star

5 Donation

To express your love for our templates and/or our developers, please do not hesitate to tip us.



The explanation right of the tip usage belongs to ElegantIATEX with no supervision. Feel free to tip us. Those who donate more than 10 RMB will be recorded in the donation list and will receive a donation certificate. Thank all the tippers!

6 FAQ

- 1). How to remove the information of version? Please comment \version{x.xx}.
- 2). How to remove the information of date? Please type in \date{}.
- 3). How to add several authors?

Use \and in \author and use \\ to start a new line.

```
\author{author 1\\ org. 1 \and author 2 \\ org. 2 }
```

Table 2: Donation List

Tipper	Amount	Date	Channel	Tipper	Amount	Da
Lerh	10 RMB	2019/5/15	Wechat	LIU ZhiKuo	100 RMB	2019/
DiPingXian	10 RMB	2019/5/15	Wechat	* Tao	16 RMB	2019/
YinSang	20 RMB	2019/5/27	Wechat	ChiHong	12 RMB	2019/
* Kong	10 RMB	2019/5/30	Wechat	YuanFengJing	10 RMB	2019/
latexstudio.net	666 RMB	2019/6/05	Alipay	GUO DeLiang	88 RMB	2019/
Cassis	11 RMB	2019/6/30	Wechat	ZiQiangBuXi	20 RMB	2019/
* Jun	10 RMB	2019/7/23	Wechat	DuShuZhiChong	20 RMB	2019/
P*u	50 RMB	2019/7/30	Wechat	* Deng	10 RMB	2019/
* Meng	19 RMB	2019/8/28	Wechat	* Zhe	20 RMB	2019/
QuDouDou	10 RMB	2019/8/28	Wechat	anonymous	10 RMB	2019/
LI Bo	100 RMB	2019/10/06	Wechat	Jiye Qian	66 RMB	2019/
Njustsll	10 RMB	2019/10/11	Wechat	Boy Yang	20 RMB	2019/

7 A Minimal Example

```
\documentclass[en,hazy,blue,screen,14pt]{elegantnote}
\title{ElegantNote Example}
\author{ddswhu}
\institute{Elegant\LaTeX{} Program}
% \version{1.00}
\date{}
\begin{document}

\maketitle
\section{Introduction}

The content of Introduction.
\end{document}
```