# The NoteBeamer Template

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#### Abstract

This is the document for NoteBeamer template, which provides a method to input Beamers on note papers and make notebook quickly.

# **Contents**

1	Introduction	1
	1.1 The purpose of this template	1
	1.2 Packages required	
	1.3 Loading NoteBeamer and its modes	2
2	Modes of NoteBeamer	2
	2.1 The draft mode	2
	2.2 The normal, lighter, & darker modes	2
	2.3 The times & libertinus modes	
3	Commands of NoteBeamer	3
	3.1 The author, mail, flyleaf, sticker and logo commands	3
	3.2 The notebook command	3
	3.3 The chapter command	3
	3.4 The emptynote & emptyhdunote command	4
	3.5 The newnote (sss) (ssss) commands	
	Vancion History	4
4	Version History	4

<sup>\*</sup>https://github.com/xiamyphys/NoteBeamer

## 1 Introduction

#### 1.1 The purpose of this template

This template provides an easy way to input Beamers on note papers and make notebook quickly. It's optimized for Goodnotes' default paper size and there won't have difference between papers.

If you meet bugs when using this template, or you have better suggestions or ideas, or you want to participate in the development of the template or other templates by me, welcome to contact via email xiamyphys@gmail.com.

Also, you can join my LaTeX Template Discussion QQ Group: 760570712 to communicate with me and get the insider preview edition of the template.

## 1.2 Packages required

This template is based on the template standalone. And it requires tikz package to plot some graphics, kvoptions and etoolbox packages to provide global opinions, graphics package to provides the draft mode, xparse to provide the commands with star<sup>12</sup>, hyperref package provides link jump function, ctex package to supports the Chinese, Simplified language and fontawesome5 package to provides a set of beautiful icons.

I strongly suggest that you should use cmd to implement the commands to update all the packages to the latest version or switch to portable version instead.

```
tlmgr update --self
tlmgr update --all
```

If you are in some areas with awful Internet environment, you can choose proper mirror source or use other means<sup>3</sup>. To learn more, please refer to How do I update my TEX distribution?

#### 1.3 Loading NoteBeamer and its modes

Save the file notebeamer.cls to your project's root directory, and then create a .tex file, just input the command \documentclass{notebeamer} on the first line.

The template provides two modes, draft and color. Just add the options of the modes you want separately in the square bracket of the command \documentclass[options] {notebeamer} in your .tex file.

<sup>&</sup>lt;sup>1</sup>This is an awful idea, because using the original command can be better than using a package.

 $<sup>^2</sup>$ In the later versions, the template will change to use the original commands of  $\text{ET}_{\text{E}}$ X $2\varepsilon$  to avoid using the package xparse, which can improve the compilation efficiency in some ways.

<sup>&</sup>lt;sup>3</sup>Please comply with local network regulations.

## 2 Modes of NoteBeamer

#### 2.1 The draft mode

Like most of the templates, this template also provide draft mode (with the support of package graphics), TEX will only read for size info of pages you input, and a box of the correct size is printed with the filename in.

This can accelerate the speed of compile and you can preview the effect quickly when you input a file with too many pages and (or) its size is too large. After you make sure that there's no formatting errors, you can cancel this mode just to wait until compiled.

#### 2.2 The normal, lighter, & darker modes

This mode can make the color of the covers you create in this template get lighter or darker, and the default opinion is normal.

#### 2.3 The times & libertinus modes

This mode can deside which font the notebook will use: The default *New Times Roman* font or the *Libertinus* font. You can use Libertinus fonts if you've installed it on your computer, and the default opinion is times.

#### 3 Commands of NoteBeamer

## 3.1 The author, mail, flyleaf, sticker and logo commands

```
\author{Your Name} \mail{Your Mail Address}
\flyleaf{titlepage.pdf} \sticker{sticker.png}
\logo[link]{logofile.pdf}[info]
```

· author, mail and flyleaf command.

There will be an author's name or (and) mail on the cover page after you use the command author or (and) mail, also a hyperlink will be added to the email address. A titlepage will automatically be added after the cover page after you use the command flyleaf.

· sticker and logo command.

There will be a sticker on the south east of the note paper after you add, and there will be a logo on the north west corner of the cover page and HDU note paper; otherwise it won't.

The first and third variable of the command logo can assign the link and info of the logo, which are optional.

• The files corresponding to the commands sticker, logo and flyleaf can be stored in a folder named figure(s), image(s), graphic(s) or picture(s), and you needn't to write these directories again in these commands because this template has already set these directories as indexes. Just as shown in the file tree in the example in Document Example.

The commands above are all repeatable, which can reassign the values that these commands assigned before.

#### 3.2 The notebook command

```
\notebook[color]{title}[subtitle]
```

This command can create a cover. There're 7 colors for the cover, these colors' Hues are from Hangzhou MTR line 1 – 7, they are H1. Haitang Red, H2. Dangui orange, H3. Lemon yellow, H4. Camphor green, H5. Cyan, H6. Ocean Blue and H7. Romantic purple.

Here, the second value title is mandatory and it can add the title above the center of the cover page while the third value subtitle is optional and it can add the subtitle vertically to the lower left of the center. The first variable is from H1 to H7 and the default value is H5.

## 3.3 The chapter command

```
\chapter[chaptertitle]{filename} \chapter*[chaptertitle]{filename}
```

This command has 2 variables: chaptertitle and filename, will assign the following chapter title and the file (such as PDF made from LTEX) will be inputted. Here, the value chaptertitle is optional.

If a star (\*) is added after this command, the counter chap won't take effect.

## 3.4 The emptynote & emptyhdunote command

```
\emptynote \emptynote* \emptyhdunote \emptyhdunote*
\emptynote[1] \emptynote*[2] \emptyhdunote[3] \emptyhdunote*[4]
```

Command emptynote will create an empty note paper with the chapter title before and page number following the previous page, and command emptyhdunote will create an empty note paper with logo (may include link) and info were assigned by the command logo but without chapter title on the top of the note paper.

If a star (\*) is added after this command, then the note paper created won't include the chapter title and page number. Also, the counter page won't take effect.

There's one optional variable of these command, it decides the number of note papers you will create, and the default value is 1 certainly.

#### 3.5 The newnote (sss) (ssss) commands

These commands will create note papers that were inserted images on the left side, the two variables is the start page number and the end page number of the file that was already assigned by the second variable of the command chapter.

## 4 Version History

In the Advanced Quantum Mechanics class on 19 October, 2023, my obsessive-compulsive disorder forced me to copy all the content projected by the teacher onto the whiteboard on my iPad, and I found that I only got a few pages full of notes without any knowledge understood in my brain after a class is over. Then, an idea suddenly occurred me: Why not create an automated program to quickly insert the Beamers given by the teacher before class with the format of several images per page? So I can just annotate on it and pay more attention to listen to the teacher. After the class ended that day, I went back to my dormitory and started writing programs in LTFX.

Version 1.0 was finished on 22 October, 2023 and released on LaTeX Studio (Xiaoshan, Hangzhou) and Xiaohongshu, where won the favor of many people and even some people who have already retired from ETFX want to re-enter.

On 24 October, 2023, a member in the CMC competition WeChat group praised for my template, and proposed his idea: the template could be magically changed to insert a slightly smaller page of notes on the left side and take notes on the right side, because he found that he can only write in the corners when annotating some notes. It's a good idea, then I'm setting about developing the next version of the template.

While considering the suggestions from friends, I am also thinking about how to simplify the previous code. Because in version 1.0, if one want to insert a Beamer with 78 images and make 3 images per page, then he should write the command newnotesss for 26 times, it's so inelegant... However, no matter how I write the loop, it's can't meet my expectations or report errors. Then, I asked stackexchange for help, and finally a LaTeX programmer wipet wrote the loop module for me. Here, I want to express my gratitude to him.

Version 2.0a was finished developing on 1 November, 2023. This version not only simplified the commands to insert Beamers from to dozens of commands to only 1 command, but redesigned some details and functions. Firstly, this version supports to insert only one page of notes on the left side. What's more, this version supports to insert your school's logo on the cover page and empty note paper. Also, this version supports insert empty note papers without page number and chapter title with just add a star (\*) after the command. Finally, this version can add a subtitle on the cover page, and redesign the colors (chosen from Hangzhou MTR) of the cover pages.

**Version 2.1a** was finished developing on 9 November, 2023. This version has fixed some bugs, and now supports inserting non-consecutive page numbers of the same file, and you can inserting a certain number of empty note papers with only one command. Also, this version has redesigned the top and bottom margins and the height between note lines in response to the suggestion from QQ Group member. What's more, this version supports the 'Libertinus' font, which can make users have a better visual effect.

#### 01/11/2023 Update: Version 2.0a

- Simplify the command of inserting 3 & 4 images per page.
- Redesign the cover page & note paper title.
- Add commands to create empty note paper with(out) chapter title & page number.
- Add commands to create empty note paper with logo and info on the top.

#### 09/11/2023 Update: Version 2.1a

- Fixed the bug of page number errors when inserting the titlepage.
- Fixed the bug of picture string position when inserting the first page number of courseware when the page number is not 1.
- Supports inserting non-consecutive page numbers of the same file.
- Supports inserting a certain number of empty note papers & HDU empty note papers with only one command.
- Support the 'Libertinus' font.
- Increased the top and bottom margins of the page by 18.8% than before.
- · Other detailed adjustments.

## 10/11/2023 Update: Version 2.1b

• Partially using LaTeX2e original commands.

# A Document Example

```
\documentclass[darker,libertinus]{notebeamer}
\begin{document}
   % Assign the author & mail address
                              \mail{xiamyphys@gmail.com}
   \author{Axia}
   % Assign the titlepage, sitcker and logo file
   \flyleaf{titlepage1.pdf} \sticker{Inuyasa.jpg}
   % Assign the logo link and info
   \logo[https://sci.hdu.edu.cn]{HDU.pdf}[Hangzhou·Zhejiang]
   % Create a cover page with color H6, title and subtitle
   \notebook[H6]{Quantum Transport}[Dirac Fermion Discussion Group]
   % Assign the chapter title and the file will be inserted after
   \chapter[PHYSICAL REVIEW B VOLUME 50, NUMBER 8]{newnotedemo.pdf}
   % Insert the page 3--4 of the file with the format 1 image per page
   \newnote{3}{4}
   % Change the titlepage in the subsequent notebooks
   \flyleaf{titlepage2.pdf}
   % Create a cover page with color H5, title
   \notebook[H5]{AQM \& SPD}
   \chapter[Introduction \& Fundamental Concepts]{newnote3sdemo.pdf}
   % Insert the page 1--2, 4--6 of the file with the format 3 images per page
                              \newnotesss{4}{6}
   \chapter[SPD Basic: Transport]{newnote4sdemo.pdf}
   % Insert the page 1--2, 4--6, 7--10 of the file with the format 4 images per page
                               \newnotessss{4}{6} \newnotessss{7}{10}
   \newnotessss{1}{2}
   % Create an empty note paper with no page number
   \emptynote*[3]
   % Create an empty note paper with logo and info but no page number
    \emptyhdunote*[2]
\end{document}
                                                notebeamer/
      doc/
         _images/
                                                  _doc/
           _HDU.pdf
                                                      _images/
           _ Inuyasa.jpg
                                                      _notebeamer-demo.tex
           __titlepage1.pdf
                                                     __notebeamer-demo.pdf
           __titlepage2.pdf
                                                     __notebeamer-doc.tex
           _ newnotedemo.pdf
                                                     __notebeamer-doc.pdf
            _newnote3sdemo.pdf
                                                    tex/
           _newnote4sdemo.pdf
                                                    __notebeamer.cls
         notebeamer-demo.tex
                                                   License
                                                  _ README.md
         notebeamer-demo.pdf
```

