

This is a Long Sample Title and
This is Not the Short Sample
Title

This is a sample subtitle

Your Name

School of Physics and Astronomy

July 31, 2023



中山大學
SUN YAT-SEN UNIVERSITY

博審慎明篤
學問思辨行

孫文

中華民國十三年十一月

國立廣東大學成立訓詞

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<http://home3.sysu.edu.cn/sysuvi/index.html>

- 物理与天文学院的 logo 见：

<https://spa.sysu.edu.cn/zh-hans/article/290>



§ How to Use and Custom sysbeamer

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how to use sysbeamer

3 package options, the first one is set to default

- **theme**: theme mode, `light` or `dark`.
- **color**: the main color of theme, `sysugreen`, `sysured`, `sysublack` or `spablue`.
Notice: this option will affect the logo picture.
- **tpage**: title page style, 1, 2 or 3, the results can be found at frame page 8.

```
1 \documentclass{beamer}
2 \usepackage[theme=dark,color=sysugreen,
   tpage=2]{sysbeamer}
3 \title[Short Title]{Normal Title}
4 \subtitle{Subtitle} % optional
5 \author{Your Name}
6 \school{Your School} % optional
7 \date{\today}
8 \begin{document}
9 \maketitle
10 \setcounter{framenumbers}{0}
11 \section{Introduction}
12 \begin{frame}
13     Your frame contents.
14 \end{frame}
15 \end{document}
```



- the command `\secsym` can custom your section symbol at table of contents;
- you can redefine the theme color by the command `\themecolor` to your favorite color;
- if you want to use other logos, please redefine the commands as the right side codes, the meaning of these commands can be seen at frame page 9.

how to custom sysbeamer

```
1 % wirte it at document preamble
2 \def\secsym{<symbol>}
3
4 \def\themecolor{<color>}
5
6 \def\logo{<path to logo.png>}
7 \def\motto{<path to motto.png>}
8 \def\horizontal{<path to horizontal.png>}
9 \def\vertical{<path to vertical.png>}
10 \def\updown{<path to updown.png>}
```



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- recommend that use the `align` environment for equations as shown below:

$$v(t) = \kappa [\cos(f + \omega) + e \cos \omega] + v_0, \quad \text{with} \quad \kappa = \frac{(2\pi G)^{1/3} m \sin I}{T^{1/3} (M + m)^{2/3} \sqrt{1 - e^2}},$$

$$\text{where} \quad \tan(f/2) = \sqrt{\frac{1+e}{1-e}} \tan(u/2), \quad u - e \sin u = \frac{2\pi}{T} (t - \tau)$$

- recommend that use the `figure` environment to show your figures, seen at frame page 11. If you want to show multiple figure, please use the `subfigure` environment in `figure`.
- recommend that use the `booktab` package to show your tables, seen at frame page 11.



- recommend that use the `lstlisting` environment to show your codes, and don't forget to use the `[fragil]` option in `frame` environment, as shown at frame page 12.
- if you want to split page, then recommend that use the `columns` environment to do it, seen at frame page 13.
- if you want to Chinese language support in your slide, there are two ways to do it, seen at frame page 13.
Notice: if you use the `ctex` package, don't forget to change your compiler to XeLaTeX .
- please try to use commands and frame options such as `\pause`, `\pause`, `allowframebreaks`, etc. as much as possible, in order to make your slide more smooth.



§ How to Use and Custom sysbeamer

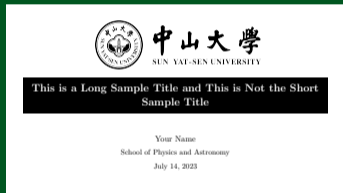
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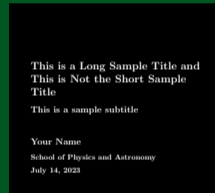
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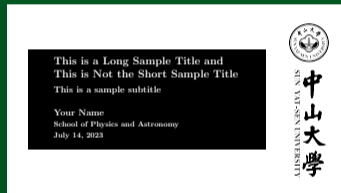
Title page style



tpage=1



tpage=2



tpage=3

Title pages style based on the light and black theme.

Figure

Logo picture



\logo



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\updown



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\horizontal

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\motto



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\vertical

Figure



```
1 \begin{figure}
2   \centering
3   \includegraphics[width=\textwidth]{
4     logo/motto.png}
5   \caption{The motto written by Mr.
6     Sun Yat-sen: "Seeking truth,
7     questioning, critical thinking,
8     distinguishing, practicing."}
9 \end{figure}
```



The motto written by Mr. Sun Yat-sen:
“Seeking truth, questioning, critical thinking,
distinguishing, practicing.”

Table



```
1 \begin{table}[htbp]
2   \footnotesize
3   \caption{2022 Winter
4   Olympics medal table}
5   \centering
6   \begin{tabular}{ccrrrr}
7     \toprule
8     Rank & NOC & Gold &
9     Silver & Bronze & Total \\
10    \midrule
11    1 & Norway & 16 & 8 &
12    13 & 37 \\
13    2 & Germany & 12 & 10 &
14    5 & 27 \\
15    3 & China & 9 & 4 & 2 &
16    15 \\
17    \bottomrule
18  \end{tabular}
19 \end{table}
```

2022 Winter Olympics medal table

Rank	NOC	Gold	Silver	Bronze	Total
1	Norway	16	8	13	37
2	Germany	12	10	5	27
3	China	9	4	2	15

Code: corner Plotting



```
1 % \begin{frame}[fragile]
2 \begin{block}{\texttt{corner} plotting}
3 \begin{lstlisting}[language=Python]
4 # import corner
5 flat_samples = sampler.get_chain(
6     discard=100, thin=15, flat=True)
7 fig = corner.corner(
8     flat_samples,
9     bins = 25,
10    show_titles = True,
11    labels = labels,
12    plot_contours = True,
13    quantiles = [0.16, 0.5, 0.84]
14 )
15 \end{lstlisting}
16 \end{block}
17 \end{frame}
```

corner plotting

```
1 # import corner
2 flat_samples = sampler.get_chain(
3     discard=100, thin=15, flat=True)
4 fig = corner.corner(
5     flat_samples,
6     bins = 25,
7     show_titles = True,
8     labels = labels,
9     plot_contours = True,
10    quantiles = [0.16, 0.5, 0.84]
11 )
12 fig.savefig('corner.pdf')
```

Split Frame and Chinese Language Support



split the frame

```
1 \begin{columns}
2   \column{0.5\textwidth}
3   contents 1
4   \column{0.5\textwidth}
5   contents 2
6 \end{columns}
```

Chinese language support 1

```
1 % \usepackage{CJKutf8}
2 \begin{CJK*}{UTF8}{gbsn}
3   Chinese language support
4 \end{CJK*}
```

Chinese language support 2

```
1 % write it at document preamble
2 % use the XeLaTeX Compiler
3 \usepackage[UTF8]{ctex}
```



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Summary



- any question about this template, please do not hesitate to contact me by below:
 -  yanghw8@mail2.sysu.edu.cn
 -  929324613 (Group ID)
 -  <https://github.com/yanghw8>
- Best regards!

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Thank you!
Any questions?