

A Simple LATEX Beamer Template for Southern Methodist University (SMU)

with SMU-styled Color Themes and Fonts

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This template is intended for non-commercial use only.



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Outline

- Introduction
- SMU Appearance Features
 - SMU Logos
 - SMU Color Theme
 - SMU Fonts
- Other Features
 - Math and Coding Fonts
 - Background Color and Frame Title
 - Title Page
- Examples



Introduction

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Introduction

This template provides a simple LaTeX Beamer design that follows Southern Methodist University's visual identity, as specified in the official brand guidelines at smu.edu/brand.

Due to its reliance on the fontspec package, this template requires compilation with XeLaTeX—it will not work with pdfLaTeX or LuaTeX.

Before you begin:

- Save these slides for future reference
- Set main.tex as your main document in the Overleaf upperleft 6 Menu



if using this template on **overleaf**.



SMU Appearance Features

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SMU Appearance Features

The core SMU style is built upon three key elements:

- SMU logo,
- SMU color theme,
- SMU font set.

Together, these components form the university's signature aesthetic.



SMU Logos

All logos in this template are sourced directly from the official SMU Box repository, linked from the university's brand site at smu.edu/brand/logos.







The official repository is available at:

smu.app.box.com/s/bkdanzfumpcle67rfcqlakx3c9aa0lay

You can download any required logos directly from this source.

Dedman College of Humanities & Sciences

SMU Logos

Corrently, the Dallas Hall icon is placed at the title page, and the department

logo **SMU** Dedman College of Humanities & Sciences is put at the lower right corner of each page with high transparency. Of course, these settings are all open to changes.

- to change the title page logo (or do other background settings), find \titlegraphic{...} command in the template file (smu_beamer_template.sty), and replace the file name "..." with your own logo file name.
- to change or remove the logo at the corner of each page, find \setbeamertemplate{background}{...} code block in the template file, and modify the image file name in the \includegraphics command.

of Humanities & Sciences

Unlike most universities and colleges in the world, SMU uses a series of high-saturation, high-contrast colors as the theme color of the university's brand.

- The Blue and Red colors are the primary colors
- Yellow, Salmon, Teal and Black are secondary.

The details are listed below (source: smu.edu/brand/color-palette)

Primary Colors Blue RGB: 53/76/161 #354CA1 PMS 286 RGB: 204/0/53 #C0035 PMS 186



PMS 192

PMS 325

Black

RGR.

38/38/38

#262626

PMS 426

PMS 7548

These colors are defined as SMUBlue, SMURed, SMUYellow, SMUSalmon, SMUTeal and SMUBlack through the xcolor package, so you may use them in the conventional way. For example, the commands

- Please \textcolor{SMUBlue}{water} the \textcolor{SMURed}{flower}.
- Please {\color{SMUBlue}water} the {\color{SMURed}flower}.

both compiles to

Please water the flower.

The latter can also be used in math formula. For example,

$$\pi^2 + C$$



Besides the text, we also use SMU color themes for the theorem blocks:

Block Title

You can use \begin{block}{Block Title} ... \end{block} to generate a default block like this, whose default color is set as SMU Blue.

Alert Title

You can use \begin{block}{Alert Title} ... \end{block} to generate an alert block like this, whose default color is set as SMU Red.

Example Title

You can use \begin{block}{Example Title} ... \end{block} to generate an example block like this, whose default color is set as SMU Yellow.

One who wants to change the color of these boxes may look for the following commands and modify the color in " $\{\ldots\}$ ") to the desired ones.

- \setbeamercolor{block title}{...},\setbeamercolor{block body}{...}
- \setbeamercolor{block title alerted}{...},
 \setbeamercolor{block body alerted}{...}
- \setbeamercolor{block title example}{...},
 \setbeamercolor{block body example}{...}

When using SMU's colors, keep this order of importance in mind:

```
Blue > \text{Red} > \text{Yellow} > \text{Salmon} \approx \text{Teal},
```

Use this as a helpful guide when choosing which colors to feature in your slides.

Salmon and Teal are almost never used in formal occasions at SMU. Therefore, we did not set them as default colors for any element in this template.

Nevertheless, they're more vibrant and eye-catching than Red and Blue, so you may use them for emphasis, usually together with bolding (\textbf or \bf)

- Use Salmon to highlight one concept:
 - It is the hydrogen bond that combines the two DNA strands.
 - Gradient descent usually converges to a local minimum.
- Use Salmon and Teal to contrast two concepts:
 - For a flow with a high Reynolds number, we are more likely to observe a turbulent flow than a laminar flow.

(Teal is too shallow, so we used \color{SMUTeal!85!black} in the last example to make it darker. Here 85 means "85% Teal+15% black).

SMU Fonts

The Font Makes a Difference!

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September 30, 2025



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 $Southern\,Methodist\,University, Department\,of\,Mathematics$

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Even with identical logos and colors, different fonts create completely different impressions.

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SMU Fonts

According to smu.edu/brand/fonts, SMU's official brand fonts are

- · Serif: Tiempos,
- Sans Serif: Trade Gothic,

and acceptable alternatives are Georgia (serif) and Arial (sans serif).

Although declairing "Both fonts can be used for headlines and/or body copy", SMU uses serif for Title and sans serif for body most of the time, and the body is usually not in Trade Gothic.

We will follow this practice.

Tiempos

DETAILS

DESIGN FOUNDRY
KLIM TYPE FOUNDRY
WWW.KLIM.GC.NZ

PRIMARY USAGE
HEADLINE & BODY
"Except FIRE should be used for headling

ALTERNATIVE FONT GEORGIA

FAMILY 32 STYLES

ILY FINE

Light * Light Italic Regular * Regular Italic Medium * Medium Italic Semibold * Semibold Italic Bold * Bold Italic Black * Black Italic HEADLINE

Light * Light Italic Regular * Regular Italic Medium * Medium Italic Semibold * Semibold Italic Bold * Bold Italic Black * Black Italic TEXT

Regular * Regular Italic Medium * Medium Italic Semibold * Semibold Italic Bold * Bold Italic

TRADE GOTHIC

DETAILS

DESIGN FOUNDRY
MERGENTHALER-LINOTYPE
WWW.MYFONTS.COM

PRIMARY USAGE HEADLINE & BODY ALTERNATIVE FONT
ARIAL
Delse use for projects that aren't highly visible

FAMILY 14 STYLES Light × Light Oblique
Regular × Oblique
Bold × Bold Oblique
Bold No. 2 × Bold No. 2

Condensed No. 18 × Condensed No. 18 Oblique
Bold Condensed No. 20 × Bold Condensed No. 20 Oblique
Extended × Bold Extended

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SMU Fonts (Frame Title In Serif)

Frame Subtitle in Serif

This template uses **Tiempos Headline** as the serif font, and **Arial** as the sans serif font. And following SMU's practice, we

- use serif font only for the titles, subtitles and special cases (e.g. the big "THANK YOU" at the end of the presentation).
 - Fully Bold for the Presentation Title and Subtitle,
 - Semibold (default \textbf font) for the Frame Titles and Subtitles.
 - Regular serif font is rarely used, included here only for completeness.
 - Each of **bold**, **Semibold**, **Regular** has its Italic version.
- use sans serif font for the contents (except formula and codes), including
 - normal text, listed items, tables
 - title and content in a block (theorem, remark, example, etc.)
 - captions of images, diagrams and tables. _____ Dedman C
 - table of contents ...

SMU Fonts

The \serif command can be used for inputting serif contents e.g.

{\serif\textbf{Southern} \textit{Methodist} University} compiles to

Southern Methodist University.

Nevertheless, serif font is not encouraged to be used in the content unless for very special purposes.



Alternatives for Tiempos

The font Tiempos is commercial (we are using the test version of it). To avoid licensing issues, this template provides the free alternative **Source Serif 4**, available from Google Fonts.

We've included this font in template-source/SourceSerif4. To use it:

- 1. Find and uncomment this block in the template (the .sty file): \newfontfamily\sourceserif[...]{SourceSerif4}

Of course, if you have your own preferred serif font (e.g. Georgia), you may also upload it and define it as the \serif font. But this requires you to know how to use the \newfontfamily command.

Other Features

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The Math Formula Font

In this template, we use the default math serif font in Large for formula, i.e.

$$x^2 + y^2$$
 compiles to $x^2 + y^2$ instead of $x^2 + y^2$

One who wants the sans serif math formula may go to find the command

\usefonttheme{professionalfonts}

and remove it in the template file.

Beamer adopts a modern concept that sans serif fonts are more visually comfortable because of its simpleness, so it sets the default font for all elements as sans serif fonts, including mathematical formulas. However, in mathematics (and also many other disciplines), different fonts of notations make a big difference, and an arbitrary modification on the font is not a good practice.

The Coding (Monospace) Font

This template provides **JetBrains Mono** as the default monospace (\texttt) font, which is the default coding font in JetBrains IDEs like PyCharm and IntelliJ. Its regular, bold and italic variations are as follows

- I am a Robot.
- I am a heavy Robot.
- I am a walking Robot.
- I am a heavy walking Robot.

To adjust the \texttt font, find and modify the \setmonofont{...}[...] command in the template file smu_beamer_template.sty.



The Coding (Monospace) Font

Besides, the template supports syntax highlighting for multiple languages including C/C++, Java, Python, LaTeX, MATLAB, and Fortran. For example, to display Python code:

```
def hello_world():
    print("Hello, World!")
```

Wrap your code in the environment:

```
\begin{lstlisting}[style=python] ... \end{lstlisting} environment.
```

You can modify existing styles or add new languages in codestyle.tex in the template-source directory.

Background Color and Frame Title

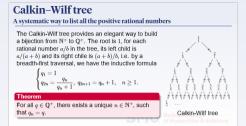
The template provides two choices for the background (colored or white), and two choices for the header background (light or dark), so there are $2 \times 2 = 4$ different combinations in total, from which you can pick the one you like.

See the next page for the visual result of the four combinations

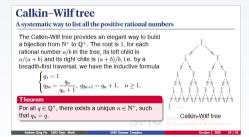
To switch between these combinations, find the commands \usecolorbgtrue and \uselightheadertrue in the template file.

- Change \usecolorbgtrue to \usecolorbgfalse to use white background,
- Change \uselightheadertrue to \uselightheaderfalse use the header with dark background color.

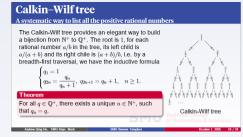




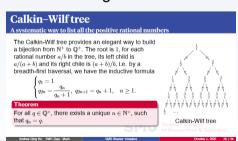
colored background + light title



white background + light title



colored background + dark title



white background + dark title

Title Page

This template offers a flexible framework for designing your title page.

- Above the title: you can add conference logos, funder acknowledgments, or other organizational logos using \titletop{...} in the header of main.tex.
- Below your name and institute: you can include additional information like collaborators, email addresses, or other details using \extrainfo{...} in the header of main.tex.



You can add custom text and images in these two areas, but note that sizing, fonts, and alignment must be manually adjusted (e.g., centering logos yourself).

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Calkin-Wilf Tree

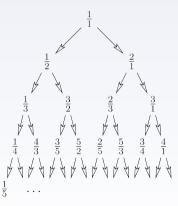
A systematic way to list all the positive rational numbers

The Calkin-Wilf tree provides an elegant way to build a bijection from \mathbb{N}^+ to \mathbb{Q}^+ . The root is 1, for each rational number a/b in the tree, its left child is a/(a+b) and its right chile is (a+b)/b, i.e. by a breadth-first traversal, we have the inductive formula

$$\begin{cases} q_1 = 1 \\ q_{2n} = \frac{q_n}{q_n + 1}, \ q_{2n+1} = q_n + 1, \quad n \ge 1. \end{cases}$$

Theorem

For all $q \in \mathbb{Q}^+$, there exists a unique $n \in \mathbb{N}^+$, such that $q_n = q$.



Calkin-Wilf tree

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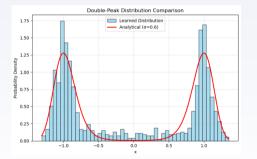
Comparison of the Complexity and Stability of Common Sorting Algorithms

I wrote this long title and subtitle intentionally to show the template's ability to handle multiline titles. In reality, titles should be clear and neat

Algorithm	Time (Avg)	Time (Worst)	Space	Stable	In-place
Bubble Sort	$O(n^2)$	$O(n^2)$	O(1)	Yes	Yes
Selection Sort	$O(n^2)$	$O(n^2)$	O(1)	No	Yes
Insertion Sort	$O(n^2)$	$O(n^2)$	O(1)	Yes	Yes
Merge Sort	$O(n \log n)$	$O(n \log n)$	O(n)	Yes	No
Quick Sort	$O(n \log n)$	$O(n^2)$	$O(\log n)$	No	Yes
Heap Sort	$O(n \log n)$	$O(n \log n)$	O(1)	No	Yes
Counting Sort	O(n+k)	O(n+k)	O(k)	Yes	No
Radix Sort	O(nk)	O(nk)	O(n+k)	Yes	No
Bucket Sort	O(n+k)	$O(n^2)$	O(n) of	HuYes	ies Nocien

Figures: Remove the Background Color

When the background is not pure white, a good practice is to remove the background color before including any figures. This can leave a very good impression to your audience.



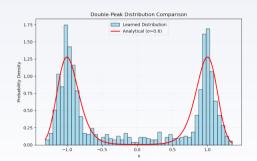


Figure: A figure before and after background removal ollege

Figures: Remove the Background Color

```
1 from PIL import Image
 def make_transparent(input_path, output_path):
      img = Image.open(input_path)
      if imq.mode != 'RGBA':
          img = img.convert('RGBA')
      data = imq.getdata()
      new_data = []
      for item in data:
          if min(item[:3]) > 250:
              new_data.append((255, 255, 255, 0))
10
          else:
              new_data.append(item)
12
      img.putdata(new_data)
13
      img.save(output_path, "PNG")
```

A simple python script that reads an image from input_path, sets the pixels with all the RGB value greater than 250 to transparent, and saves the backgroundremoved version of the image to output_path.

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References (Fake, Genereated by AI) I

Christopher M. Bishop.

Pattern Recognition and Machine Learning.

Springer, New York, NY, 3rd edition, 2023.

David A. Brown and Sarah M. Davis.

Neural network architectures: Past, present, and future.

Nature Machine Intelligence, 4:123--145, 2022.

Maria Garcia, Carlos Martinez, and Ana Rodriguez.

Transfer learning in computer vision applications.

In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pages 3456--3465, Seattle, WA, 2024. IEEE.

Ian Goodfellow, Yoshua Bengio, and Aaron Courville.

Deep Learning: Theory and Applications.

MIT Press, Cambridge, MA, 2024.

References (Fake, Genereated by AI) II

Michael Johnson and Patricia Anderson.

An efficient algorithm for large-scale optimization.

In *Proceedings of the International Conference on Machine Learning (ICML)*, pages 1234--1242, Honolulu, Hawaii, 2023. PMLR.

Sung-Min Lee, Ji-Hye Kim, and Min-Soo Park.

Distributed computing for real-time data processing.

In *Proceedings of the ACM Symposium on Cloud Computing (SoCC)*, pages 89--98, Santa Cruz, CA, 2023. ACM.

John Smith, Mary Johnson, and Robert Williams.

Machine learning approaches to data analysis.

Journal of Computational Science, 45(3):234--256, 2023.

Wei Zhang, Chen Liu, and Li Wang.

Deep learning for image recognition: A comprehensive survey.

IEEE Transactions on Pattern Analysis and Machine Intelligence, 46(2):445-478, 2024.

THANK YOU!

Questions and Discussion

Notice that in this page, we have removed the logo at the corner.

This is set by surrounding the frame with
{\setbeamertemplate{background}{}} ... }

