University of Utah Beamer Theme

Presentation Template

Your Name

University of Utah

January 20, 2026

Why Use Beamer?

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- GitHub project:
  `https://github.com/eazhou99/UofU-Beamer-Theme`
- This template is based on the original THU Beamer Theme

- There are some themes built into LaTeX
- Various universities have created their own themes
- This template originated from `https://www.latexstudio.net/archives/4051.html`
- The original link is no longer available
- Examples by Jiayi Weng (2016–17): `https://github.com/Trinkle23897/oi_slides`

University of Utah Version Modifications

- Colors based on University of Utah Brand Guidelines [Uni24a]
- University of Utah red (#BE0000)
- More colors documented in CLAUDE.md for vibe coding convenience
- Logos available at University of Utah Brand website [Uni24b]
- More features can be found at LaTeX Studio [LaT18]
- Some examples below are adapted from TUNA [TUN18]

Why Beamer

- LaTeX is widely used in academia for journal and conference papers

Microsoft® Word	LaTeX
Word processor	Professional typesetting
Easy to learn, intuitive	Easy to start
WYSIWYG	What you think is what you get
Advanced features hard to master	Advanced features rarely needed
Long documents require experience	Same workflow for any length
Spend time on formatting	Focus on content
Equation typesetting is mediocre	Excellent equation typesetting
Binary format, compatibility issues	Text files, readable, stable
Paid commercial license	Free and open source

Math Examples

Unnumbered Equation

$$J(\theta) = \mathbb{E}_{\pi_\theta}[G_t] = \sum_{s \in \mathcal{S}} d^\pi(s) V^\pi(s) = \sum_{s \in \mathcal{S}} d^\pi(s) \sum_{a \in \mathcal{A}} \pi_\theta(a|s) Q^\pi(s, a)$$

Multi-line Equation[1]

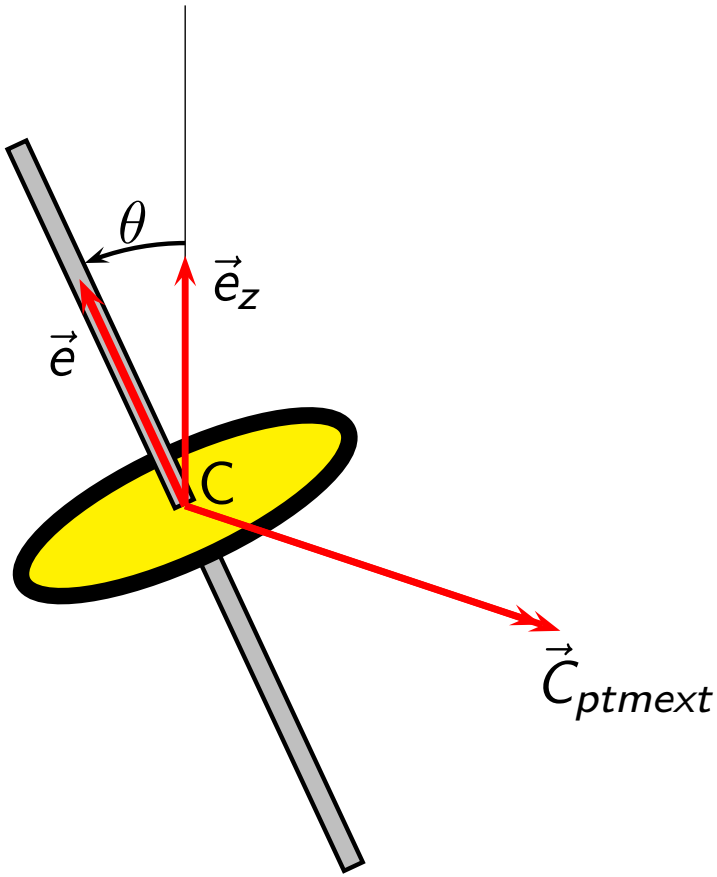
$$Q_{\text{target}} = r + \gamma Q^\pi(s', \pi_\theta(s') + \epsilon) \tag{1}$$
$$\epsilon \sim \text{clip}(\mathcal{N}(0, \sigma), -c, c)$$

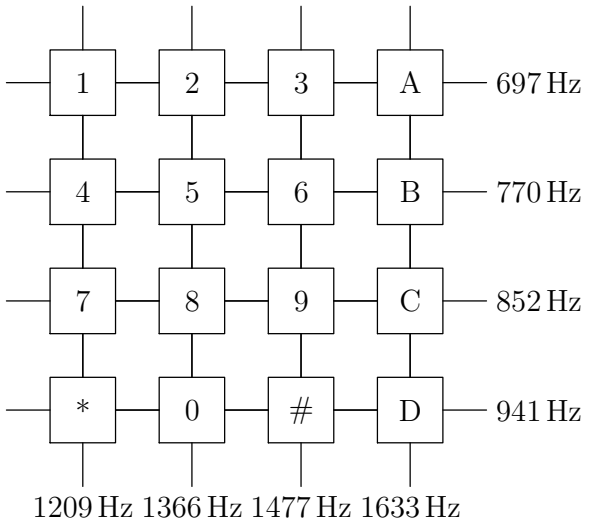
[1] If text appears in equations, use \mathrm{} or \text{}, otherwise it looks like *clip* instead of clip.

Numbered Multi-line Equation

$$\begin{aligned} A = \lim_{n\to\infty} \Delta x \Big(a^2 + \Big(a^2 + 2a\Delta x + (\Delta x)^2\Big) \\ + \Big(a^2 + 2\cdot 2a\Delta x + 2^2(\Delta x)^2\Big) \\ + \Big(a^2 + 2\cdot 3a\Delta x + 3^2(\Delta x)^2\Big) \\ + \dots \\ + \Big(a^2 + 2\cdot (n-1)a\Delta x + (n-1)^2(\Delta x)^2\Big)\Big) \\ = \frac{1}{3}\left(b^3 - a^3\right) \end{aligned} \tag{2}$$

Figures and Columns





LaTeX Common Commands

Commands

\chapter	\section	\subsection	\paragraph
Chapter	Section	Subsection	Paragraph
\centering	**\emph**	**\verb**	**\url**
Center align	Emphasize	Verbatim	Hyperlink
\footnote	**\item**	**\caption**	**\includegraphics**
Footnote	List item	Caption	Insert image
\label	**\cite**	**\ref**	
Label	Cite reference	Cross-reference	

Environments

table	figure	equation
Table	Figure	Equation
itemize	**enumerate**	**description**
Bulleted list	Numbered list	Description list

LaTeX Environment Examples

```
\begin{itemize}
  \item A \item B
  \item C
  \begin{itemize}
    \item C-1
  \end{itemize}
\end{itemize}
```

- A
- B
- C
  - C-1

[2] "n+e" is a homophone of the original author Jiayi Weng's Chinese name. "Learning" is self-deprecation—actually Expert level.

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  - C-1

```
\begin{enumerate}
  \item Expert \item Advanced
  \item Beginner
  \begin{itemize}
    \item[n+e] Learning
  \end{itemize}
\end{enumerate}
```

1. Expert
2. Advanced
3. Beginner
   - n+e Learning[2]

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LaTeX Math Formulas

```
$V = \frac{4}{3}\pi r^3$

\[
  V = \frac{4}{3}\pi r^3
\]

\begin{equation}
  \label{eq:vsphere}
  V = \frac{4}{3}\pi r^3
\end{equation}
```

$V = \frac{4}{3}\pi r^3$

$$V = \frac{4}{3}\pi r^3$$

$$V = \frac{4}{3}\pi r^3 \qquad (3)$$

- More information: LaTeX Math Guide

```
\begin{table}[htbp]
  \caption{Numbers and Values}
  \label{tab:number}
  \centering
  \begin{tabular}{cl}
    \toprule
    Number & Value \\
    \midrule
    1 & 4.0 \\
    2 & 3.7 \\
    \bottomrule
  \end{tabular}
\end{table}
Equation~(\ref{eq:vsphere})
values are shown in
Table~\ref{tab:number}.
```

Table 1: Numbers and Values

Number	Value
1	4.0
2	3.7

Equation (3) values are shown in Table 1.

Graphics

- Vector graphics: eps, ps, pdf
  - METAPOST, pstricks, pgf ...
  - Xfig, Dia, Visio, Inkscape ...
  - Matlab / Excel can export to pdf
- Raster graphics: png, jpg, tiff ...
  - Use high resolution to avoid blurriness
  - Should be avoided when possible

Figure 1: This logo is a vector graphic

- ~~Month 1: Complete literature review~~
- ~~Month 2: Reproduce and evaluate various Beamer themes~~
- ~~Month 3-4: Customize and refine the theme~~
- ~~Month 5: Write documentation~~

Just one cozy night of vibe coding with Claude Code and voilà — University of Utah edition done!

[LaT18] LaTeX Studio.
Beamer theme features, 2018.
Additional Beamer features and examples.

[TUN18] TUNA.
Latex tutorial, 2018.
Examples adapted from TUNA LaTeX workshop.

[Uni24a] University of Utah.
University of utah brand colors, 2024.
Official brand color guidelines.

[Uni24b] University of Utah.
University of utah logo downloads, 2024.
Official brand assets.

Thanks!