Monash Beamer Theme

Thesis Proposal Presentation

Runze Ma

Faculty of Information Technology
Monash University

October 2025

Why Beamer?

- LaTeX is widely used in academia, and many universities have their own Beamer themes.

Why Beamer?

- LaTeX is widely used in academia, and many universities have their own Beamer themes.
- Please use XeLaTeX compiler for best results.

Why Beamer?

- LaTeX is widely used in academia, and many universities have their own Beamer themes.
- Please use XeLaTeX compiler for best results.
- Original theme: `https://github.com/Kha1edze/MONASH-Beamer-Theme`

Beamer Theme Types

- Default LaTeX themes
- University-customized themes
- This template was modified from the Tsinghua University Beamer theme.

Differences from THU Beamer Theme

- Color scheme adjustments
- University logo

Why Beamer

- LaTeX is widely adopted in scientific publishing.

Microsoft Word	LaTeX
Word processor	Professional typesetting
Easy to learn	Requires basic syntax
WYSIWYG	What you mean is what you get
Formatting is time-consuming	Focus on content
Poor formula layout	Excellent for equations
Proprietary format	Plain text, stable, portable
License required	Free and open source

Equations Example

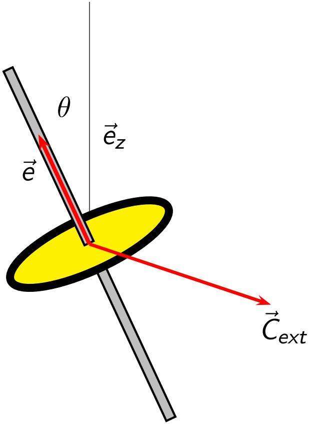
Unnumbered Equation

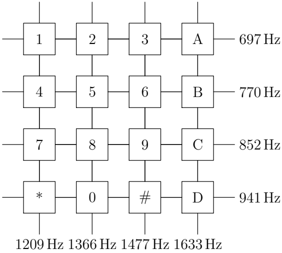
$$J(\theta) = \mathbb{E}_{\pi_\theta}[G_t] = \sum_{s\in\mathcal{S}} d^\pi(s) V^\pi(s) = \sum_{s\in\mathcal{S}} d^\pi(s) \sum_{a\in\mathcal{A}} \pi_\theta(a|s) Q^\pi(s,a)$$

Multiline Equation

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

Figures and Columns





1	2	3	A	697 Hz
4	5	6	B	770 Hz
7	8	9	C	852 Hz
*	0	#	D	941 Hz
1209 Hz	1366 Hz	1477 Hz	1633 Hz	

LaTeX Common Commands

Commands

`\chapter`	`\section`	`\subsection`	`\paragraph`
chapter	section	sub-section	paragraph
`\centering`	`\emph`	`\verb`	`\url`
center	emphasize	original	hyperlink
`\footnote`	`\item`	`\caption`	`\includegraphics`
footnote	list item	caption	insert image
`\label`	`\cite`	`\ref`	
label	citation	refer	

Environment

`table`	`figure`	`equation`
table	figure	formula
`itemize`	`enumerate`	`description`
non-numbering item	numbering item	description

LaTeX Examples of environmental commands

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

- A
- B
- C
  - C-1

LaTeX Examples of environmental commands

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

- A
- B
- C
    - C-1

```
\begin{enumerate}
  \item A \item B
  \item C
  \begin{itemize}
    \item[n+e]
  \end{itemize}
\end{enumerate}
```

1. A
2. B
3. C
    n+e

LaTeX 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}
```

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

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

$$V = \frac{4}{3}\pi r^3 \tag{2}$$

- more information here

```
\begin{table}[htbp]
  \caption{numbers & meaning}
  \label{tab:number}
  \centering
  \begin{tabular}{cl}
    \toprule
    number & meaning \\
    \midrule
    1 & 4.0 \\
    2 & 3.7 \\
    \bottomrule
  \end{tabular}
\end{table}
```

Table 1: numbers & meaning

numbers	meaning
1	4.0
2	3.7

formula (**??**) at previous slide and Table **??**

- January: Literature review
- February: Reproduce and evaluate Beamer themes
- March to April: Beautify Monash Beamer theme
- May: Thesis writing

Thanks!