



华中科技大学

HUST Beamer

Unofficial presentation theme manual

A compact 16:9 academic presentation system for
Huazhong University of Science and Technology.

Version **0.7.1**

Maintainer **Wang Yang (王阳)**

Engines **XeLaTeX and LuaLaTeX**

Repository github.com/fusang991/hust-beamer

This is an unofficial community project. HUST names and institutional identity marks remain subject to their respective rights and policies.

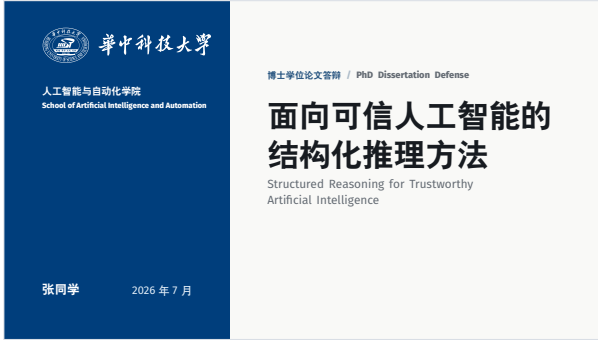
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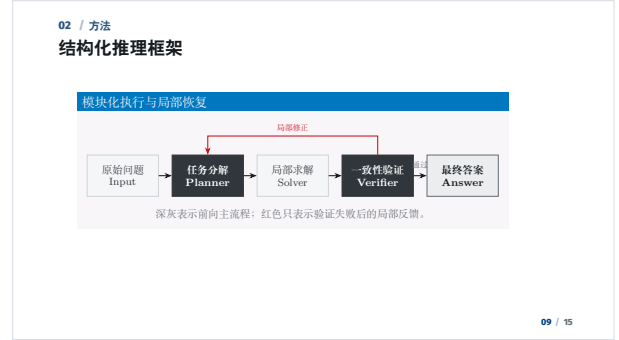
1 Overview

HUST Beamer is an unofficial Beamer theme for Chinese-led academic talks, thesis defenses, seminars, and research presentations. It provides a coherent system for title pages, outlines, section dividers, ordinary frames, lists, semantic boxes, and closing pages.

The visual hierarchy is intentionally restrained. Strong HUST identity is concentrated on branded pages, while ordinary frames use neutral titles, compact pagination, and an inset reading field. The theme builds on [Moloch](#).



Cover page with a concentrated identity field



Ordinary frame with compact title geometry

1.1 Requirements

- XeLaTeX or LuaLaTeX;
- Beamer, Moloch, PGF/TikZ, *etoolbox*, *graphicx*, and *xcolor*;
- *ctex*, Fandol, and Fira for the bundled Chinese examples.

The page masters target a 16:9 canvas. pdfLaTeX and legacy 4:3 presentations are not supported configurations.

2 Quick start

After the theme has been installed in a TeX search tree, a presentation loads it with one line:

```
\usetheme{hust}
```

A minimal Chinese presentation is:

```
\documentclass[aspectratio=169,fontset=fandol]{ctexbeamer}
\usetheme{hust}

\setsansfont{Fira Sans}
\setCJKsansfont{FandolHei-Regular}[BoldFont=FandolHei-Bold]

\title{Research Talk}
\author{Your Name}
\institute{Huazhong University of Science and Technology}
\date{\today}

\hustsetdepartment{School or Department}
\hustsetevent{Academic Presentation}

\begin{document}
\maketitle

\section{Motivation}
\begin{frame}{First content frame}
  \begin{itemize}
    \item State the claim first.
    \item Add only the evidence needed to support it.
  \end{itemize}
\end{frame}
\end{document}
```

The complete compact source is available as `example/minimal.tex`; the longer demonstration is `example/demo.tex`.

2.1 Installation

When distributed through CTAN and TeX Live, install the package once:

```
tlmgr install hust-beamer
```

For a manual user installation, place the five `*.sty` files and the complete `assets/` directory under:

```
TEXMFHOME/tex/latex/hust-beamer/
```

Use `kpsewhich beamerthemehust.sty` to verify that TeX can discover the installation. No project-local clone is needed after this one-time setup.

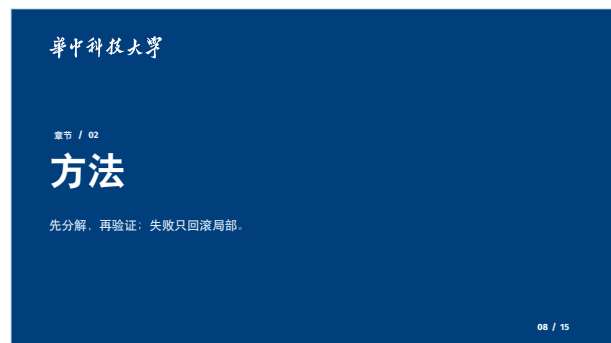
3 Page families

The theme treats the following as distinct page families:

1. the cover establishes identity and metadata;
2. the outline establishes reading order;
3. section dividers reset pace and state one chapter claim;
4. ordinary frames carry the argument with reduced branding;
5. the closing page returns to the full identity field.



Structured outline



Section divider



Data-dense result frame



Closing page

3.1 Cover metadata

The cover reads standard Beamer metadata together with optional Chinese and English unit and event labels:

```
\title{Presentation title}
\subtitle{Optional cover subtitle}
\author{Presenter}
```

```
\institute{Huazhong University of Science and Technology}
\date{\today}

\hustsetdepartment{School or Department}
\hustsetdepartmenten{English unit name}
\hustsetevent{Academic Presentation}
\hustseteventen{Research Talk}
```

The subtitle appears on the cover only. An optional portrait image can replace the base of the blue cover field:

```
\hustsetcoverimage[trim=0 8mm 0 8mm,clip]{figures/campus.jpg}
\hustclearcoverimage
```

3.2 Section and closing pages

Place a one-sentence section claim immediately before the corresponding `\section`. The note is consumed once:

```
\hustsetsectionnote{One sentence that states the chapter claim.}
\section{Method}
```

Use the closing command inside a standout frame:

```
\begin{frame}[standout]
  \hustclosing{Thank you}{Questions & Discussion}{Name - School}
\end{frame}
```

3.3 Ordinary-frame geometry

Ordinary titles begin at a 12 mm physical margin. The body begins at 17 mm, creating a deliberate 5 mm step between page-level metadata and the reading field. Frame subtitles are intentionally not rendered on ordinary frames, and no decorative rule appears beneath the title.

Do not cancel the built-in title/body step with negative spacing. Treat it as part of the page master rather than per-frame whitespace.

4 Lists and semantic boxes

Native Beamer environments receive the theme styling automatically. *itemize* is used for parallel claims; *enumerate* is reserved for a real sequence.

```
\begin{itemize}
  \hustitem{Claim first}{One supporting line follows.}
  \hustitem{Keep levels scarce}{Nest only for conditions or exceptions.}
\end{itemize}
```

The two recurring content-box families are also native Beamer blocks:

```
\begin{block}{Primary conclusion}
  Explanation, comparison, summary, or future work.
\end{block}

\begin{exampleblock}{Definition or local emphasis}
  A model, formula, evidence region, or secondary point.
\end{exampleblock}

\begin{alertblock}{Risk or failure}
  A genuine warning, limitation, or failure state.
\end{alertblock}
```

01 / 问题与目标

Item 建立阅读顺序

ITEMIZE / 并列信息

- **结论先行**
每项先给出观点，再补充一行依据。
- **句式平行**
同一层级保持相近的信息颗粒度。
- **层级克制**
 - 次级条目补充条件或例外。
 - 三级仅用于必要注释。

ENUMERATE / 顺序步骤

- 01 定义输入**
问题、状态与约束保持明确。
- 02 执行任务**
 - a 生成候选
 - b 保存中间状态
- 03 检查输出**
失败时只进入局部恢复。

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01 / 问题与目标

Box 用标题带建立语义边界

蓝色 / 核心信息与结论

- 窄蓝色标题带负责命名主语义区域。
- 淡紫灰正文面承载解释、比较与 Future Work。

粉色 / 定义、公式与局部强调

- 粉色标题带用于定义、公式与次级语义区域。
- 真正的风险与失败仍然只用红色文字表达。

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Itemize and enumerate hierarchy

Blue and pink semantic box families

Blue identifies a primary semantic region. Pink identifies a definition, formula, or secondary region. Red is reserved for actual warnings and failure states. A slide normally needs no more than one primary box or two compact, related boxes.

5 Public interface

Command

Purpose

`\hustsetdepartment{...}`

Chinese unit name on the cover.

Command	Purpose
<code>\hustsetdepartmenten{...}</code>	English unit name on the cover.
<code>\hustsetdepartmentshort{...}</code>	Legacy compatibility alias; it is not rendered in ordinary footers.
<code>\hustsetevent{...}</code>	Chinese presentation type above the cover title.
<code>\hustseteventen{...}</code>	English presentation type above the cover title.
<code>\hustsetsectionnote{...}</code>	One-shot claim shown on the next section divider.
<code>\hustsetcoverimage[...]{...}</code>	Optional photograph behind the blue cover identity field.
<code>\hustclearcoverimage</code>	Restore the solid-blue cover identity field.
<code>\hustsetassetpath{...}</code>	Override the directory containing the vector identity assets.
<code>\hustsetlogo{...}</code>	Override the automatically discovered emblem; ensure that the custom mark remains legible on dark pages.
<code>\hustbrandmark[height]</code>	Render the active color emblem.
<code>\hustbrandmarkinverse[height]</code>	Render the inverse emblem.
<code>\hustwordmark[width]</code>	Render the blue Chinese standard name.
<code>\hustwordmarkinverse[width]</code>	Render the inverse Chinese standard name.
<code>\hustkicker{...}</code>	Render a compact neutral editorial label.
<code>\hustitem{title}{note}</code>	Render a two-level item inside a native list.
<code>\hustmetric{value}{label}</code>	Render an open metric with supporting evidence.
<code>hustoutlinepage</code>	Structured outline environment for use in a plain top-aligned frame.
<code>\hustoutlineitem{n}{title}{note}</code>	Numbered outline or conclusion row.

Command	Purpose
<code>\hustclosing{title}{subtitle}{detail}</code>	Closing content for a standout frame.

6 Brand assets

The package contains four static vector PDF assets:

- `hust-emblem-color.pdf`;
- `hust-emblem-white.pdf`;
- `hust-name-blue.pdf`;
- `hust-name-white.pdf`.

They are discovered automatically from the bundled `assets/` directory. If an installation rearranges that directory, set `\hustsetassetpath{path/to/assets}` in the preamble.

These files were generated with [hustvisual v1.0.0](#). The theme does not load `hustvisual` at runtime.

This package is unofficial and does not imply endorsement by HUST. The theme code and original documentation use CC BY-SA 4.0. HUST names, emblems, wordmarks, and other institutional identity elements are excluded from that grant and remain subject to the applicable institutional policies.

7 Build, support, and maintenance

Build the demonstration from the repository root:

```
latexmk -xelatex example/demo.tex
latexmk -lualatex example/demo.tex
```

The release is tested with both engines. Report reproducible problems at:

<https://github.com/fusang991/hust-beamer/issues>

Include the engine, TeX Live version, a minimal source file, and the relevant log excerpt. The maintained design contract is documented in `DESIGN.md`.

7.1 Troubleshooting

Symptom	Check
---------	-------

<code>beamerthememoloch.sty</code> not found	Install the <i>moloch</i> package with the package manager supplied by the TeX distribution.
Brand mark is missing	Keep the complete <i>assets/</i> directory beside the theme files, or set <code>\hustsetassetpath</code> .
Fira font warning	Install the <i>fira</i> package, or choose locally available sans and mono fonts in the document preamble.
Chinese text is blank or incorrect	Compile the bundled examples with XeLaTeX or LuaLaTeX and retain the <i>ctexbeamer</i> class.
Theme is not discovered	Run <code>kpsewhich beamerthemehust.sty</code> ; refresh the filename database when required by the local TeX distribution.



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7.2 License and maintainer

Maintainer	Wang Yang (王阳)
Theme code	CC BY-SA 4.0
Brand assets	Separate institutional rights notice; see <i>LICENSE</i> and <i>NOTICE.md</i>
Repository	https://github.com/fusang991/hust-beamer

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