

“Mirage” Beamer Theme “蜃楼” beamer 主题

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<https://github.com/liantze/beamerthemeMirage>

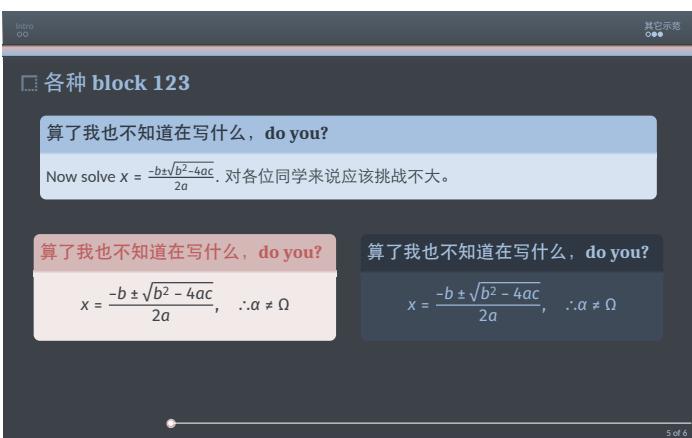
Abstract

A beamer theme inspired by the **album art** of Zhou Shen's song **Mirage**, the lead single from his album **Shenself**.



摘要

基于周深《反深代词》专辑的先行曲《蜃楼》歌曲封面，二创的 beamer 主题。



1 Basic Usage

Two modes are available: the default has a dark look, while the light mode may be more suitable for printouts.

\usetheme{Mirage} OR

\usetheme[light]{Mirage}

The English sample files `*-en.tex` can be compiled with `pdfLaTeX`, `XeLaTeX` or `LuaLaTeX`; but compile the Chinese sample files `*-zh.tex` with `XeLaTeX`. Compile twice to get the correct total number of frames in the footer.

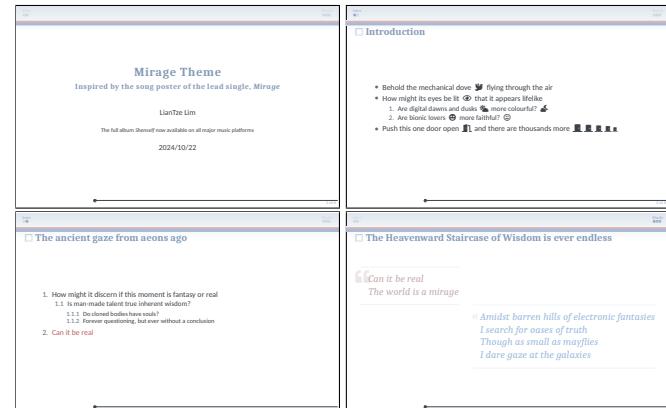


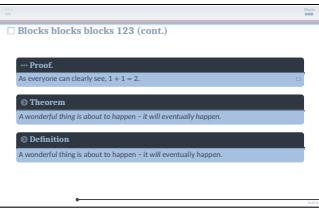
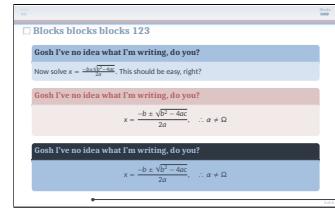
1 基本用法

两种模式可选：默认模式颜色深沉，`light` 模式颜色较浅，较适合列印。详细使用方法可参考示范.tex 文档。

\usetheme[light]{Mirage}

英文示范文档 `*-en.tex` 可用 `pdflatex`, `XeLaTeX` 或 `LuaLaTeX` 编译。中文示范文档 `*-zh.tex` 请用中文编译。页脚里的幻灯片帧数需多次编译才能正确显示。





2 Posters

With some modifications, the Mirage theme can be used for creating posters the beamerposter package. See sample files `mirage-poster-en.tex` and `mirage-poster-zh.tex` for examples.

Using the Mirage theme for posters

John Doe, Jane Smith and A. N. Other

Introduction

- Behind the mechanical door, flying through the air
- How might it even be it? What's that appears inside?
- Are digital doors and doors more colourful?
- Push one door open, and there are thousands more

The ancient gaze from seagoing ago

- How might it discern if this moment is fantasy or real
- Do distant bodies have such?
- Or further questioning, but even without a conclusion

Can it be real?
The world is a mirage

Amidst barren hills of electronic fantasies
I search for oases of truth
Though as small as mayflies
I dare gaze at the galaxies

Superior Images and False Horizons [1, 2]

A superior image can be produced when warm air rests over cold water. Again, using the pattern from Greenler, the vertical scale and the curvature are greatly exaggerated to show the effect. Such images are often seen at great distances in the arctic region when the air is significantly warmer than the water. Since the geometry of the mirage images depends on the details of the temperature contour, a great variety of mirage images can be formed.
Source: <http://hyperphysics.phy-astr.gsu.edu/hbase/mirage.html>, visited on 07/20/2024.

References

- [1] Robert Greenler, "Atmospheric refraction images, twinkling stars, and the green flash", in: Battinelli, Heim, and Glories, Cambridge University Press, 1980, Chap. 7.
- [2] Carl R. Nave, Mirages and other atmospheric optics phenomena, HyperPhysics, Department of Physics and Astronomy, Georgia State University, 2000, URL: <http://hyperphysics.phy-astr.gsu.edu/hbase/mirage.html>, visited on 07/20/2024.

Dept of XX, Uni of YY, other information as appropriate

2 海报

“蜃楼”主题也可以和 `beamerposter` 搭配使用制作海报(一些设置需些许修改), 请参照 `mirage-poster-zh.tex` 及 `mirage-poster-en.tex`.

当蜃楼 Mirage 主题拿来做海报

作者甲、作者乙、作者丙

Introduction

- 看机械的白痴梦 从空中飞出
- 看如何海面 什么才是称谓呢
- 1. 看到的海面 2. 看到的海面
- 2. 看到的海面 3. 看到的海面
- 推开一扇门 还有万千扇门 真真真

那来自过去古老的限制

- 如何能认识此刻的幻境
1. 人看到的海面 2. 人看到的海面
- 1.1. 看到的海面 2. 看到的海面
2. 看到的海面 3. 看到的海面

Can it be real?
The world is a mirage

在幻幻的荒丘 寻真实的绿洲
渺小得如蜉蝣 也仰望着宇宙

Superior Images and False Horizons [1, 2]

A superior image can be produced when warm air rests over cold water. Again, using the pattern from Greenler, the vertical scale and the curvature are greatly exaggerated to show the effect. Such images are often seen at great distances in the arctic region when the air is significantly warmer than the water. Since the geometry of the mirage images depends on the details of the temperature contour, a great variety of mirage images can be formed.
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- [1] Robert Greenler, "Atmospheric refraction images, twinkling stars, and the green flash", in: Battinelli, Heim, and Glories, Cambridge University Press, 1980, Chap. 7.
- [2] Carl R. Nave, Mirages and other atmospheric optics phenomena, HyperPhysics, Department of Physics and Astronomy, Georgia State University, 2000, URL: <http://hyperphysics.phy-astr.gsu.edu/hbase/mirage.html>, visited on 07/20/2024.

Dept of XX, Uni of YY, 其它适合资讯

3 Some simple customisation options

- The Mirage theme itself doesn't set any body fonts, so you can load your own preferred fonts in your .tex files.
- The sample .tex files load the font packages `caladea`, `carlito`, `newtxsf` for the English (pdf)TeX samples, and `Fira Math` for the Chinese (Xe)TeX samples. You can change these as you like.
- `pullquote` used in frame 4 is a custom environment. You can change its beamer font and color, or re-define the `\MiragePullquoteOpen` marker (see frame 4).
- Other markers that can be `\renewcommand`:
 - `\MirageFrametitlePrefix`
 - `\MirageProofPrefix`
 - `\MirageTheoremPrefix`

for prefix icons of the frame title, proof block title and theorem-like block titles. (See commented code before frame 5.)

3 一些可调整的元素

- “蜃楼”本身并没有设置任何字体, 用户可以自行在.tex 导言区加载自己喜欢的宏包或设置字体。
 - 示范的 .tex 档案导言区加载了 `caladea`、`carlito`、`newtxsf`(仅限英文pdf)TeX示范文档)、`Fira Math`(仅限中文 Xe)TeX 示范文档)。这些都是可以自行更换的!
 - 第 4 帧幻灯片里用的 `pullquote` 环境是“蜃楼”主题自定义的。它的 beamer font、color 都是可以更换的, 也可重新定义前缀装饰 `\MiragePullquoteOpen` marker (详见第 4 帧幻灯片示范代码)。
 - 其它可以 `\renewcommand` 的装饰:
 - `\MirageFrametitlePrefix`
 - `\MirageProofPrefix`
 - `\MirageTheoremPrefix`
- 这些是 `frame title`、`proof block title` 以及 `theorem` 之类 block titles 的前缀装饰。(详见第 5 帧幻灯片之前的注释)

- The Mirage theme loads `fontawesome5`, so you can use icons provided by this package.
- `\MirageGlowRadius` is a length controlling the size of the glowy circle in the footline; especially useful when creating posters with `beamerposter`.
- “蜃楼” 主题已加载 `fontawesome5` 宏包，可以尽情使用此宏包提供的符号。
- `\MirageGlowRadius` 是用来控制页脚的小光球半径的 length；制作海报时可以酌量加大。

4 Revision History

v1.0 (2024/04/14) Initial commit.

v1.01 (2024/09/18) Adds `beamerposter` example and some updates for some easier customisations.

v1.1 (2024/10/24) Reorganises sample .tex files and documentations; submitted to CTAN.

v1.1.1 (2025/01/19) Bug fix: added missing second argument to `\addtobeamertemplate{frametitle}`.