

# The Celestia Theme

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## ① INTRODUCTION

The Celestia theme is a modern and elegant Beamer theme designed to create professional and visually appealing presentations. It offers extensive customization flexibility while remaining simple to use.

### 1.1 Basic Usage

```
1 \documentclass{beamer}
2 \usetheme{Celestia}
3
4 \title{My Presentation}
5 \author{My Name}
6 \date{\today}
7
8 \begin{document}
9 \maketitle
10 % Your slides here
11 \end{document}
```

## ② LANGUAGE

### 2.1 The `language` Option

Sets the presentation language, automatically passed to the `babel` package.

**Default value:** `english`

```
1 \usetheme[language=french]{Celestia}
```

## ③ COLOR PALETTES

### 3.1 Predefined Palettes

The theme provides 26 harmonious color palettes. Each palette automatically defines all colors (primary, accent, blocks, background).

#### 3.1.1 The `palette` Option

**Default value:** `midnight`

#### Available Palettes

- **midnight** – Deep midnight blue with golden accents (default)
- **ocean** – Aquatic blue and turquoise tones
- **sunset** – Warm red-orange palette
- **royal** – Classic royal blue with red touches
- **frost** – Cool cyan and icy blue tones
- **slate** – Sober and modern slate gray
- **terra** – Earth and terracotta tones

- **forest** – Natural forest greens
- **spring** – Spring pink and turquoise
- **plum** – Elegant plum purples
- **sepia** – Vintage sepia browns
- **navy** – Navy blue with emerald green
- **crimson** – Intense crimson red
- **emerald** – Vibrant emerald greens
- **amber** – Warm amber oranges
- **lavender** – Soft lavender purples
- **copper** – Copper and metallic tones
- **coral** – Blue-green and coral tones
- **earth** – Earth and natural wood tones
- **modern** – Balanced modern palette
- **neon** – Vivid neon contrasts
- **nordic** – Nordic design-inspired palette
- **pastel** – Soft pastel tones
- **retro** – Vintage retro colors
- **sakura** – Japanese pink and purple
- **solar** – Energetic solar oranges
- **twilight** – Twilight blues
- **bnw** – Minimalist black and white

```
1 \usetheme[palette=ocean]{Celestia}
```

## 3.2 Custom Palette

### 3.2.1 The `custompalette` Option

Allows you to define a complete custom palette by specifying six colors in order: primary color, accent, standard block, example block, alert block, background.

```
1 \usetheme[
2   custompalette={2C3E50,E74C3C,3498DB,27AE60,E67E22,ECF0F1}
3 ]{Celestia}
```

## 3.3 Individual Colors

For finer customization, you can define each color separately (hexadecimal codes without the #).

- **maincolor** – Primary color for titles and accents (default `0A1F3C`)
- **accentcolor** – Secondary color for special elements (default `B38600`)
- **backgroundcolor** – Slide background color (default `F8FAFC`)
- **codebackgroundcolor** – Code block background color

- **blockcolor** – Standard block color (default `4A6572`)
- **examplecolor** – Example block color (default `4A7C59`)
- **alertcolor** – Alert block color (default `A93226`)

```

1 \usetheme[
2   maincolor=045549,
3   accentcolor=E63946,
4   backgroundcolor=FAFAFA,
5   blockcolor=1A3B52
6 ]{Celestia}

```

### 3.3.1 The `unicolor` Option

Enables monochrome mode where the primary color is used for all text.

```

1 \usetheme[unicolor]{Celestia}

```

## ④ FONTS

### 4.1 Default Fonts

- **Main font:** Literata (serif)
- **Sans-serif font:** Inter
- **Monospace font:** Roboto Mono

### 4.2 Font Customization

- **mainface** – Main font for body text
- **mainfaceoptions** – `fontspec` options for the main font
- **sansface** – Sans-serif font
- **sansfaceoptions** – `fontspec` options for the sans-serif font
- **monoface** – Monospace font for code
- **monofaceoptions** – `fontspec` options for the monospace font

```

1 \usetheme[
2   mainface=EB Garamond,
3   mainfaceoptions={Scale=1.1},
4   sansface=Montserrat,
5   monoface=Fira Code
6 ]{Celestia}

```

#### 4.2.1 The `allserif` Option

Uses the main serif font for mathematics.

```

1 \usetheme[allserif]{Celestia}

```

## 5.1 Margins

### 5.1.1 The `margin` Option

Sets the content margin for slides.

**Default value:** `2em`

```
1 \usetheme[margin=1.5em]{Celestia}
```

## 5.2 Frame Title Style

### 5.2.1 The `frametitle` Option

Defines the display style for each slide's title.

**Default value:** `elegant`

**Available Values:**

- **elegant** – Title with decorative bar on the left
- **plain** – Simple, left-aligned without decoration
- **centered** – Centered with decorative bar
- **plaincentered** – Centered without decoration
- **shaded** – Title with shaded colored background

```
1 \usetheme[frametitle=centered]{Celestia}
```

## 5.3 Decorative Elements

### 5.3.1 The `decorative` and `nodecorative` Options

Enables or disables decorative elements (gradients, triangles).

**Default:** disabled

```
1 \usetheme[decorative]{Celestia}
2 % OR
3 \usetheme[nodecorative]{Celestia}
```

### 5.3.2 The `decorationstyle` Option

Defines the visual style of decorations.

**Default value:** `none`

**Available Values**

- **none** – No decorations
- **sober** – Sober and discreet decorations

- **fancy** – Elaborate and creative decorations
- **minimal** – Minimalist decorations

```
1 \usetHEME[decorationstyle=fancy]{Celestia}
```

### 5.3.3 The `decorationopacity` Option

Sets the opacity of decorative elements (value between 0 and 1).

**Default value:** `0.15`

```
1 \usetHEME[
2   decorationstyle=fancy,
3   decorationopacity=0.15
4 ]{Celestia}
```

## 5.4 Title Page

### 5.4.1 The `titlealign` Option

Sets the title alignment on the title page.

**Default value:** `center`

**Available values:** `left`, `center`, `right`

```
1 \usetHEME[titlealign=right]{Celestia}
```

### 5.4.2 The `titlebackground` Option

Allows you to specify a background image for the title page.

```
1 \usetHEME[titlebackground=images/background.jpg]{Celestia}
```

## ⑥ TITLE STYLING

### 6.1 Font Family

#### 6.1.1 The `headstyle` Option

Sets the font family for titles.

**Default value:** `sffamily`

#### Available Values

- **rmfamily** – Serif font
- **sffamily** – Sans-serif font

## 6.2 Character Shape

### 6.2.1 The `headshape` Option

Sets the character shape for titles.

Default value: `normal`

#### Available Values

- **normal** – Normal shape
- **sc** – Small caps
- **it** – Italic

## 6.3 Weight

### 6.3.1 The `headweight` Option

Sets the font weight for titles.

Default value: `bfseries`

#### Available Values

- **bfseries** – Bold
- **mdseries** – Medium weight

## 6.4 Title Sizes

The theme allows customization of the size of different title elements:

- **titlesize** – Main title size (title page) (default `Large`)
- **frametitlesize** – Frame title size (default `large`)
- **sectiontitlesize** – Section title size (default `LARGE`)
- **subtitlesize** – Subtitle size (default `Large`)

Available values are standard LaTeX size commands: `tiny`, `scriptsize`, `footnotesize`, `small`, `normalsize`, `large`, `Large`, `LARGE`, `huge`, `Huge`.

```
1 \usetheme[
2   titlesize=Huge,
3   frametitlesize=Large,
4   sectiontitlesize=huge
5 ]{Celestia}
```

## 6.5 Combined Example

```
1 \usetheme[
2   headstyle=rmfamily,
3   headshape=sc,
4   headweight=mdseries
```

## ⑦ SOURCE CODE

### 7.1 Code Handler

#### 7.1.1 The `codehandler` Option

Defines the code management system.

Default value: `listings`

#### Available Values

- **listings** – Uses the `listings` package
- **minted** – Uses the `minted` package (requires Pygments)

```
1 \usetheme[codehandler=minted]{Celestia}
```

### 7.2 Code Framing

#### 7.2.1 The `codebox`, `nocodebox`, `nocodeframe` Options

Controls the framing of code blocks with `tcolorbox`.

**Default:** `codebox=true` (framing enabled)

- **codebox** – Enables framing (active by default)
- **nocodebox** – Completely disables framing
- **nocodeframe** – Keeps `tcolorbox` but without visible border

```
1 \usetheme[nocodeframe]{Celestia}
```

### 7.3 Supported Languages

The theme supports syntax highlighting for many languages:

**Programming languages:** Python, Java, C++, JavaScript, SQL, Bash, Assembly, Lisp

**Data formats:** JSON, YAML, TOML, CSV

**Others:** LaTeX, Markdown

### 7.4 Usage

```
1 \begin{codeside}{python}
2 def fibonacci(n):
3     if n <= 1:
4         return n
5     return fibonacci(n-1) + fibonacci(n-2)
6 \end{codeside}
```



## 8 FOOTER

### 8.1 The `footerstyle` Option

Defines the footer style.

#### 8.1.1 Available Values

- **default** – Celestia’s default style with alternating colors (author, title, date, page)
- **quartercircle** – Page number in a quarter circle at bottom right
- **fullbar** – Full bar with author/title/date and number in a circle
- **shadedfullbar** – Full bar with shaded background
- **number** – Simple page number display
- **fraction** – Displayed as a fraction (current slide / total)

```
1 \usetheme[footerstyle=quartercircle]{Celestia}
```

### 8.2 The `shownavigation` Option

Displays Beamer navigation symbols (disabled by default).

```
1 \usetheme[shownavigation]{Celestia}
```

## 9 TABLE OF CONTENTS

### 9.1 The `compacttoc` Option

Reduces vertical spacing between table of contents entries.

```
1 \usetheme[compacttoc]{Celestia}
```

### 9.2 The `twocolumntoc` Option

Automatically distributes sections across two balanced columns.

```
1 \usetheme[twocolumntoc]{Celestia}
```

### 9.3 Custom Command

The `\twocolumntoc` command allows manual control of the two-column distribution.

```
1 % Sections 1-4 in left column, 5-10 in right column
2 \twocolumntoc[1][5][10]
```

## 10 BLOCKS

### 10.1 Block Types

Three types of blocks are available:

```

1 \begin{block}{Block Title}
2   Standard block content
3 \end{block}
4
5 \begin{exampleblock}{Example}
6   Example block content
7 \end{exampleblock}
8
9 \begin{alertblock}{Warning}
10  Alert block content
11 \end{alertblock}

```

## 10.2 Block Styles

### 10.2.1 The `soberblock`, `softblock`, `shadedblock`, and `nobackblock` Options

Defines the visual style of blocks.

**Default:** title on colored background, body with 10% tinted background

- **soberblock** – Colored title on general background, lightly tinted body
- **softblock** – Title and body on uniformly tinted 10% background
- **shadedblock** – Blocks with shaded background
- **nobackblock** – Blocks without colored background

```
1 \usetheme[soberblock]{Celestia}
```

### 10.2.2 Block Opacity Options

Allows control of colored background intensity for each block style (value between 0 and 1):

- **shadedblockopacity** – Opacity for `shadedblock` (default `0.35`)
- **soberblockopacity** – Opacity for `soberblock` (default `0.18`)
- **softblockopacity** – Opacity for `softblock` (default `0.18`)

```

1 \usetheme[
2   soberblock,
3   soberblockopacity=0.20
4 ]{Celestia}

```

## 11 SPECIAL PAGES

### 11.1 Standout Pages

The `standout` frame option transforms a slide into an emphasis page for key moments: quotes, important messages, etc.

```

1 \begin{frame}[standout]
2   \centering
3   \Huge
4   Important Message
5
6   \vspace{1em}
7   \large

```

```
8 --- Quote
9 \end{frame}
```

## 11.2 Section Pages

### 11.2.1 The `sectionpage` and `sectionnumber` Options

Controls the automatic display of section pages.

**Default:** `sectionpage=true`, `sectionnumber=false`

- **sectionpage** – Enables/disables automatic section pages
- **sectionnumber** – Shows/hides section numbers

```
1 \usetheme[
2   sectionpage=false,
3   sectionnumber=true
4 ]{Celestia}
```

To manually disable in the document:

```
1 \AtBeginSection{}
2 \AtBeginSubsection{}
```

## 12 TEXT FORMATTING

### 12.1 Special Commands

- `\texttt{text}` – Monospace font with accent color
- `\verb|text|` – Like `\texttt` for inline code
- `\alert{text}` – Bold text with accent color

### 12.2 The `boldurl` Option

Enables bold URLs in hyperlinks.

```
1 \usetheme[boldurl]{Celestia}
```

## 13 PREDEFINED SCHEMES

### 13.1 The `scheme` Option

Applies a predefined scheme that automatically configures multiple parameters (decoration style, footer, frame title, blocks) to achieve a cohesive look.

#### Available Values

- **light** – Light style with sober decorations, shaded full bar footer, shaded titles, and **blocks without background**.
- **academic** – Academic style without decorations, centered titles, a quarter circle containing the page number on the right side of the footer, and shaded blocks.

- **creative** – Creative style with fancy decorations, full bar footer, soft blocks, and plain titles.
- **zen** – Minimalist refined style with minimal decorations, simple numbering, **plain centered titles**, and blocks without background.
- **simple** – Ultra-simple style without decorations, fraction numbering, plain titles, and blocks without background.

1 `\usetheme[scheme=zen]{Celestia}`



**NOTE** Parameters defined by the scheme can be overridden by explicitly specifying other options.