

L^AT_EX PRESENTATION

A Tour of the Celestia Beamer Theme

Showcasing the main features

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Outline

1. Getting started
2. Blocks
3. Mathematics
4. Interactive quiz
5. Source code
6. Layout
7. Preset styles

THE CELESTIA BEAMER THEME

Getting started

A simple slide

Celestia is a modern, polished Beamer theme designed for professional and visually appealing presentations.

It ships with:

- 7 carefully crafted color palettes
- 10 frame title styles
- 11 footer styles
- 12 block styles
- 5 code styles and 6 preset styles

Numbered lists and descriptions

Frame subtitle support

All three compilation engines are supported:

1. pdfLaTeX — fast compilation, maximum compatibility
2. LuaLaTeX — native access to system fonts
3. XeLaTeX — advanced OpenType font handling

serifface Serif font (secondary)

sansface Sans-serif font (body text)

monoface Monospace font for code

mathface Font for mathematical formulas

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Blocks

The three block types

Standard block

This block uses the `blockcolor` defined by the current palette. It highlights important information.

Example block

This block uses the `examplecolor`. It is well suited for concrete examples and illustrations.

Alert block

This block uses the `alertcolor`. It draws attention to critical points or common pitfalls.

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Mathematics

Theorem 1 (Sum of the first integers)

For every integer $n \geq 1$:

$$1 + 2 + \cdots + n = \frac{n(n+1)}{2}$$

Proof.

Let $S = 1 + 2 + \cdots + n$. Writing the sum in reverse order: $S = n + (n-1) + \cdots + 1$.
Adding term by term: $2S = n(n+1)$. □

Definition 1 (Prime number)

An integer $p \geq 2$ is called *prime* if its only divisors are 1 and itself.

Property 1 (Infinitude of primes)

There are infinitely many prime numbers.

Remark 1

The number 1 is not considered prime by convention.

Lemma, corollary and proposition

Lemma 1 (Euclidean division)

For every integer a and every integer $b > 0$, there exists a unique pair (q, r) such that $a = bq + r$ with $0 \leq r < b$.

Corollary 1

Every integer is either even or odd.

Proposition 1

If p is prime and $p \mid ab$, then $p \mid a$ or $p \mid b$.

Method, activity and application

Method 1 (Factorization)

To factor n , test divisibility by $2, 3, 5, 7, \dots$ up to $\sqrt{n}$.

Activity 1

Find the prime factorization of 360.

Application 1

Simplify the fraction $\frac{360}{84}$ using prime factorization.

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Interactive quiz

Multiple choice question

The quiz environment with \correct

What is the value of $\int_0^1 2x \, dx$?

- A. 0
- B. 1
- C. 2
- D. $\frac{1}{2}$

Multiple choice question

The quiz environment with \correct

What is the value of $\int_0^1 2x \, dx$?

A. 0

B. 1

C. 2

D. $\frac{1}{2}$

The correct answer is highlighted on click.

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Source code

Syntax highlighting

A ready-to-use python style is included for keyword coloring:

```
def fibonacci(n):  
    if n <= 1:  
        return n  
    return fibonacci(n-1) + fibonacci(n-2)  
  
for i in range(10):  
    print(fibonacci(i))
```

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Layout

Highlights

- Polished design
- Fine-grained customization
- 7 color palettes
- pdfLaTeX compatible

Font options

Customizable fonts:

- `serifface` (literata)
- `sansface` (inter)
- `monoface` (plex-mono)
- `mathface` (inter)

Tables

The seven palettes of the theme:

Palette	Character	Background
nordic	icy blues (default)	#F5F8F8
palatial	midnight blue and gold	#F8FAFC
petrol	petrol green and brass	#F9FBF9
terracotta	terracotta	#FFF9F5
velvet	plum and gold	#FBF9F8
midnight	deep indigo, dark background	#161828
dusk	dark teal, dark background	#131C20

The last two suit dimly lit rooms.

Key figures and source

7

color palettes

6

preset styles

3

compilation engines

The `\keyfigure` command sets a number in a large size, followed by its label. The `\source` command writes a source line above the footer.

Source: Celestia documentation.

Formatting commands

Celestia provides a set of dedicated commands:

- **Alert text** with `\alert{...}`
- **x** is a math term (`\mathterm`)
- *f* is a math definition (`\mathdef`)
- `Inline code` with `\texttt{...}`

Formulas blend in seamlessly:

$$e^{i\pi} + 1 = 0$$

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Preset styles

The 6 preset styles

Coherent combinations of palette, frametitle, footer and blocks

Style	Palette	Title	Footer	Blocks
celestia	nordic	ruled	info	ribbon
modern	nordic	subtle	info	sober
signature	petrol	cosmic	cosmic	fullbar
executive	palatial	leftbar	fullbar	fullbar
sober	terracotta	gradient	info	sober
stage	midnight	ruled	minimalist	ribbon

Every setting of a style can still be changed: `style=modern, palette=petrol`.

The body text uses a sans-serif typeface optimised for projection. Contrast ratios are calibrated to ensure readability, even in large lecture halls.

Simplicity is the ultimate sophistication.

— Leonardo da Vinci

The purpose of abstraction is not to be vague, but to create a new semantic level in which one can be absolutely precise.

— Edsger W. Dijkstra

Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away.

Antoine de Saint-Exupéry

Thank you for your attention!

celestia v2.0.0