Beamer theme `wpre`

A quick tour

WunschUnreif

Basics, SJTU

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Thanks IPADS, thier slides theme inspired this a lot.

Contents

Theme Options

You can pass options when loading this beamer theme in your preamble:

```
\usetheme[key = val, ...]{wpre}
```

Alternatively, options can be modified in your document using the macro

```
\wpreset{key = val, ...}
```

Metadata:

> `series` Series name of your presentation, course name for example.
>
> `credits` Credits shown at the bottom on the title page.

Behavior control:

`showtocsubsection` Controls whether subsections are shown in the table of contents. Initially `false`. Options are `true` and `false`.

`showsubsectionpage` Controls whether a title page is added at the beginning of each subsection. Initially `false`. Options are `true` and `false`.

Available options (cont'd)

Logo:

    titlelogo Path to the logo image shown on the title page. Set to empty to disable.

    framelogo Path to the logo image used for frame titles. Set to empty to disable.

Fonts:

    font Font family to use for main text. Options include `cmbr` (Computer Modern Bright), `beamer` (the default family), `harmony-os` (HarmonyOS Sans), and `sourcehan` (Source Han Sans). Initially `cmbr`. Choose `harmony-os` or `sourcehan` if you are writting in chinese.

Title Page and Section Pages

How to make the title page?

Two ways:

1. Use `\maketitle` directly. (recommended)
2. Wrap `\titlepage` inside a frame with options `plain, standout`.
   2.1 sub item
      2.1.1 sub sub item

If you don't like the standout title page, it is also feasible to put the `\titlepage` in a `plain` frame. Remember to change the logo accordingly.

There are several elements displayed on the title page:

- Title, set with `\title`.
- Subtitle, set with `\subtitle`.
- Author, set with `\author`.
- Institute, set with `\institute`.
- Date, set with `\date`.
- Series, displayed in the top left corner, set with `\series`.
- Credits, displayed at the bottom, set with `\credits`.
- Logo, set with `\wpreset{titlelogo = <path>}`.
  - sub item
    - subsub item

Section pages

At the beginning of each section, a section page is automatically generated.

We don't recommend the use of subsections since the structure of your presentation should be concise and flat. So **no** subsection page is provided by default. But you can change this behavior by setting relevant options.

Title Page and Section Pages

Subsection page looks like this!

Inside Frames

Highlighting

Normal text looks like this.

Structure text looks like this.

Alerted text looks like this.

Colors should be used parsimoniously, not like this.

The theme uses the $\mathcal{AMS}$ Euler font designed by Zapf.

Formulas:

$$E = mc^2 \tag{1}$$

$$x = \left(\frac{-b \pm \sqrt{4ac - b^2}}{2a} \right) \tag{2}$$

$$\int_a^b f(t)dt = F(b) - F(a) \tag{3}$$

The blocks looks fancy!

This is a block
The block has this sentence as its content.

What if a block has no title?

As you wish, no extra space!
By the way, blocks are actually `tcolorbox`es, where you can use `\tcblower` to separate the contents.

Blocks (cont'd)

Some long text

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Special blocks

> **Example blocks**
> Example looks green.

> **Alert blocks**
> This is a warning!

Math blocks

> **Definition** [math block]
>
> A *math block* is a block containing mathematical content.

Note: the names of the mathematical environments provided by `wpre` are all prefixed with 'w' in order to distinguish from the original ones.

> **Example**
>
> To display a definition block, write
>
> ```
> \begin{wdefinition}[optional name]
>     ...
> \end{wdefinition}
> ```

Math Blocks (cont'd)

> ### Lemma 1
> For $\mathfrak{a} \perp \mathfrak{b}$, we have $\|\mathfrak{a} + \mathfrak{b}\|^2 = \|\mathfrak{a}\|^2 + \|\mathfrak{b}\|^2$.

> ### Theorem 2
> This theorem is correct.

Proof. That's obvious. □

> ### Remark
> This remark is insightful.

Figure: SJTU Logo

Other Tips

Other tips

- We only support a frame title, setting subtitles for frames has no effect.
- The `\part` command hasn't been tested.

A. Salomaa. Formal Languages. Academic Press, 1973.

E. Dijkstra. Smoothsort, an alternative for sorting in situ. Science of Computer Programming, 1(3):223–233, 1982.

Finding Primes Using LaTeX3!

The primes in the first 1000 numbers are:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241, 251, 257, 263, 269, 271, 277, 281, 283, 293, 307, 311, 313, 317, 331, 337, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401, 409, 419, 421, 431, 433, 439, 443, 449, 457, 461, 463, 467, 479, 487, 491, 499, 503, 509, 521, 523, 541, 547, 557, 563, 569, 571, 577, 587, 593, 599, 601, 607, 613, 617, 619, 631, 641, 643, 647, 653, 659, 661, 673, 677, 683, 691, 701, 709, 719, 727, 733, 739, 743, 751, 757, 761, 769, 773, 787, 797, 809, 811, 821, 823, 827, 829, 839, 853, 857, 859, 863, 877, 881, 883, 887, 907, 911, 919, 929, 937, 941, 947, 953, 967, 971, 977, 983, 991, 997.