

\LaTeX -Beamer Style for NTNU

Documentation

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The \LaTeX beamer NTNU theme

This \LaTeX beamer theme is based on the Powerpoint templates available at [Innsida](#). The design of these templates is owned by NTNU, and should not be altered substantially without checking it with the [Communication Division](#).

This documentation assumes that you have your editor and \LaTeX compiler set up and running. For \LaTeX beamer, the full documentation is available at <https://texdoc.org/serve/beamer/0>.

This documentation:

- ▶ Gets you started (slide #4)
- ▶ Illustrates what the three styles look like (slide #5)
- ▶ Documents all available options and features (slide #6)

Start a presentation

1. Copy this folder to the desired location
2. Configure the language and style in the `ntnu-beamer-example.tex` file as indicated by the comments
3. Comment out or remove unused package imports in the preamble
4. Remove the `ntnu-beamer-documentatin.tex` and `ntnu-beamer-documentatin.pdf` files, as well as the demos folder
5. Rename the `ntnu-beamer-example.tex` file as desired
6. Open the just renamed `.tex` file and start writing your presentation, i.e.
 - ▶ Fill out author and title
 - ▶ Fill or comment out the subtitle
 - ▶ Set the date or leave it at the current date
 - ▶ Start writing your slides, two examples are already given in the template

A more elaborate way *instead* of copying all files from step 1 is to include them in your \LaTeX path.

Different styles

The following 6 slides illustrate the three styles you can choose, first showing the title page and then a usual slide that also explains how to choose this style.

Note that since `slogan=english`, `style=plain`, and `mathfont=sans` are the defaults, if you use

```
\usetheme{NTNU}
```

that is the same as

```
\usetheme[slogan=english, style=plain, mathfont=sans]{NTNU}
```



Norwegian University of
Science and Technology

L^AT_EX-BEAMER STYLE FOR NTNU

Demo of the `plain` style

Ronny Bergmann

August 31, 2021

A slide in plain style

This style is set up with

```
\usetheme[slogan=english, style=plain, mathfont=serif]{NTNU}
```

Here you can see that the `plain` (default) style has just a logo in the bottom left and a slide number in the bottom right.

The slogan can be `english` or `norwegian` depending on the `slogan=` option. Here it is set to `english` (default).

The slide number can also have the total number of slides setting `frametotal=true`, which is `false` (the default) here.

The font in math mode is here set by `mathfont=serif` (default: `sans`) and looks like this:

$$e^{-\frac{a}{2}x^2} = \sqrt{\frac{1}{2\pi a}} \int_{-\infty}^{\infty} dy e^{-\left(\frac{y^2}{2a} + i y x\right)}$$



L^AT_EX-Beamer Style for NTNU

Demo of the horizontal style

Ronny Bergmann

August 31, 2021

A slide in horizontal style

This style is set up with

```
\usetheme[slogan=norsk, style=horizontal]{NTNU}
```

Here you can see that the `horizontal` style has a horizontal line in the footer with the logo in white and the name of the university on the title (see previous slide).

The slogan can be english or norwegian depending on the `slogan=` option, here it is set to `norsk`.

The slide number can also have the total number of slides setting `frametotal=true`, which is `false` (the default) here.

The font in math mode is here set by `mathfont=sans` (default) and looks like this:

$$e^{-\frac{a}{2}x^2} = \sqrt{\frac{1}{2\pi a}} \int_{-\infty}^{\infty} dy e^{-\left(\frac{y^2}{2a} + i y x\right)}$$



NTNU

L^AT_EX-Beamer Style for NTNU

Demo of the `vertical` style

Ronny Bergmann

August 31, 2021

A slide in vertical style

This style is set up with

```
\usetheme[style=vertical, frametotal=true]{NTNU}
```

Here you can see that the `vertical` style has a vertical line on the left with the logo in white and the name of the university on the title (see previous slide).

The slogan can be english or norwegian depending on the `slogan=` option. Here it is set to its default, `english`.

The slide number can also have the total number of slides setting `frametotal=true`, as you can see here (the default is `false`).

The font in math mode is here set by `mathfont=sans` (default) and looks like this:

$$e^{-\frac{a}{2}x^2} = \sqrt{\frac{1}{2\pi a}} \int_{-\infty}^{\infty} dy e^{-\left(\frac{y^2}{2a} + i y x\right)}$$

Available options

You can load the theme using

```
\usetheme{NTNU}
```

where you have the following options available

Option	Default	Description
displayframetotal		the same as frametotal=true
frametotal=true false	false	toggle display of total number of slides
hideframetotal		the same as frametotal=false
slogan=english norsk	norsk	whether to use english or norsk slogan
style= ...	plain	styles, see (outer) themes on slide 7
mathfont=sans serif	sans	font style in mathmode

Outer themes

The communication design team provides four variants, three of which have been implemented

(outer themes in latex beamer)

NTNUplain a very plain style (Default)

NTNUvertical with a stripe on the left (current)

NTNUhorizontal with a stripe at the bottom

All three consist of an outer and an inner theme, these are activated by the style option of the main theme

```
style=plain|vertical|horizontal
```

when loading the theme with

```
\usetheme{NTNU}
```

as shown on slide #5 and the following example slides.

Special commands

titlelogo Set the logo on the title page. By default, it is set to the negative english or norwegian logo (depending on the chosen slogan), see the slogan option, e.g.

```
\titlelogo{ntnu_bredde_eng_neg.png}
```

Special colors

These colors are taken from <https://innsida.ntnu.no/wiki/-/wiki/Norsk/Farger+i+grafisk+profil>

NTNUBlue (#00509e)

NTNULightblue (#6096d0)

NTNUOrange (#ef8114)

NTNUPink (#b01b81)

NTNUYellow (#f7d019)

NTNUViolet (#482776)

NTNUCyan (#3cbfbe)

NTNUOcher (#cfb887)

LightGrey (#bebebe)

Further configurations

Currently all 3 colors of hyperref are set to [NTNUBlue](#), i. e.

- ▶ `linkcolor` when referring to e. g. the demo slides slide [#5](#) and following
- ▶ `urlcolor` when using URLs or hyperref links, for example when including this themes [github page](#)
- ▶ `citecolor` when citing literature like¹.

¹Donald E. Knuth. *The T_EXbook*. Addison-Wesley, 1984.

Required packages

The following packages have to be installed for the theme to work

calc for a few computational tricks

ifthen to define some commands

pdftexcmds to define some commands

opensans for the font

tikz for some graphic tricks

This documentation further uses

booktabs for nice tables

listings for code highlighting

pdfpages to include the examples

This is handled automatically by [Overleaf](#) or [TeX Live](#)