



Norwegian University of
Science and Technology

L^AT_EX-BEAMER STYLE FOR NTNU

Documentation.

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Introduction

Getting started

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Developer Guide

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 #3)
- ▶ illustrates what the three styles look like (from slide #?? onwards)
- ▶ documents all available options and features (Slide #5)



Start A Presentation

1. Copy all eight `.sty` files (Style files) and all seven `.png` files (the logos) to the folder, where you want to write your presentation
2. Copy *either* the `ntnu-beamer-example-eng.tex` *or* the `ntnu-beamer-example-eng.tex` to that folder, too
3. Open the just copied `.tex` file and start writing your presentation, i.e.
 - ▶ fill out author and title
 - ▶ fill or comment out (% at the beginning of the line) the subtitle
 - ▶ set the date or leave it at the current date
 - ▶ Start writing your slides (called `frames`), two examples are already given in the template)

You can repeat this whenever you start preparing a new presentation.



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}
```

L^AT_EX-BEAMER STYLE FOR NTNU

Demo of the `plain` style

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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

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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:

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



NTNU

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Demo of the `vertical` style

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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
<code>displayframetotal</code>		the same as <code>frametotal=true</code>
<code>frametotal=true false</code>	false	toggle display the total number of slides
<code>hideframetotal</code>		the same as <code>frametotal=false</code>
<code>slogan=english norsk</code>	norsk	whether to display english or norsk slogan
<code>style= ...</code>	plain	styles, see (outer) themes on slide 6
<code>mathfont=sans serif</code>	sans	font style in mathmode

Outer themes

The corporate design team provides four variants

(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

They all three consist of an outer and an inner theme, but the easy way to activate these is the option

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

when loading the theme with

```
\usetheme{NTNU}
```

special commands

titlelogo Set the logo on the title page. By default, it is set to the negative english or norsk logo (depending on the chosen slogan), see the slogan option, e.g. `\titlelogo{ntnu_bredde_eng_neg.png}`

Special colors

NTNUblue (#00509e)

NTNULightblue (#6096d0)

NTNUOrange (#ef8114)

NTNUPink (#b01b81)

NTNUYellow (#f7d019)

NTNUViolet (#482776)

NTNUCyan (#3cbfbe)

NTNUOcher (#cfb887)

LightGrey (#bebebe)

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

