sthlmNord Beamer Theme [version round (pi, 5)]
Nord Inspired by Stockholm

Created by: mholson.com

Institute: School in Stockholm
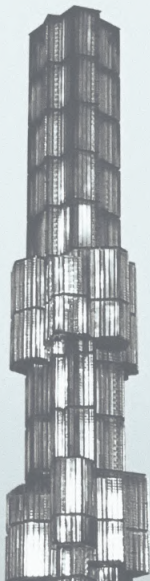
Course: Courses Title Goes Here

File: sthlmNordLightDemo

sthlm NORD

A Beamer Deck Theme
with an arctic, north-blueish color palette.

Table of contents

Background Information

Please use Metropolis Theme Instead

Thank you for wanting to use sthlmNord version 3.

Warning Label

You really should consider using the Metropolis theme (mTheme) developed & maintained by Matthias Vogelgesang instead. It has been extensively tested, documented and available through CTAN.

https://github.com/matze/mtheme

Major Features

- ⊚ Inspired by HSRM[1], mTheme[2] and Flux[3].
- ⊚ Color theme based on Arctic Ice Studio's Nord Color Theme.
- ⊚ Libertinus sans-serif fonts compiled with X⅂LATEX.
- ⊚ Dark (default) and Light Themes available.

[1]https://github.com/benjamin-weiss/hsrmbeamertheme
[2]https://github.com/matze/mtheme
[3]https://github.com/pvanberg/flux-beamer

A Brief History

The Original sthlm theme was created as pdflatex port of the unique hsrm theme designed by Benjamin Weiss along that included a more vibrant color scheme.

```
https://github.com/benjamin-weiss/hsrmbeamertheme
```

sthlm also borrowed heavily from mTheme for version 2. Version 3 has been rebuild with inspiration from the first two versions and the lesser known Flux theme created by Pierre-Olivier Vanberg.

```
https://github.com/pvanberg/flux-beamer
```

Version 3 is now called sthlmNORD and is being typeset once again using the X∃LATEX engine.

Sorry ... No Guarantee

This is sharing to showcase. I have created sthlmNORD to template my slide decks and have shared the code for anyone who is interested in using it or modifying it to build their own decks.

No Guarantee!

Unfortunately, I **cannot** guarantee that any of LaTeX style files that make up sthlmNORD theme are *error free*, *optimized*, *well written* or *if they will work in your production environment*. I would not consider myself a TeXnician wizard, so you have been warned! Please use with extreme CAUTION.

Available on GitHub

This theme and all the documentation is hosted on GitHub

Download — Fork — Contribute

https://github.com/mholson/sthlmNordBeamerTheme

Figure: Hosted on GitHub

Available on Overleaf

This theme and all the documentation is hosted on Overleaf

View on Overleaf.com

`https://github.com/mholson/sthlmNordBeamerTheme`

Packages

Table: Packages explicitly called by sthlmNORDtheme.

tikz	ragged2e	metalogo	tabularray	currfile
datetime	~~microtype~~	textcomp	unicode-math	libertinus-oft
mathtools	amssymb	siunitx	calc	cancel
cases	fontawesome5	diffcoeff	wasysym	xfrac
~~enumitem~~	verbatim	minted	cleveref	~~listings~~

Packages

The following custom packages make up the sthlmNORD theme:

beamerthemesthlmnord.sty the main style file.

mhocolorthemenord.sty the style file that defines the nord color palette.

mhomacros.sty custom mathematics macros.

mhotables.sty setup tables for use with tabularray pkg.

Colors

Nord Color Palette

Polar Night	Snow Storm	Frost	Aurora
nord 0	nord 4	nord 7	nord 11
nord 1	nord 5	nord 8	nord 12
nord 2	nord 6	nord 9	nord 13
nord 3		nord 10	nord 14
			nord 15

Polar Night

- text: `\cDarkBlack{text}` ∪ `\cnordZero{text}`
- text: `\cBlack{text}` ∪ `\cnordOne{text}`
- text: `\cDarkGrey{text}` ∪ `\cnordTwo{text}`
- text: `\cGrey{text}` ∪ `\cnordThree{text}`

Polar Storm

- text: `\cDivGrey{text}` ∪ `\cnordFour{text}`
- text: `\cLightGrey{text}` ∪ `\cnordFive{text}`
- : `\cBGGrey{text}` ∪ `\cnordSix{text}`

Polar Frost

- ◎ text: `\cAquaBlue{text}` ∪ `\cnordSeven{text}`
- ◎ text: `\cLightBlue{text}` ∪ `\cnordEight{text}`
- ◎ text: `\cBlue{text}` ∪ `\cnordNine{text}`
- ◎ text: `\cDarkBlue{text}` ∪ `\cnordTen{text}`

Polar Aurora

- ◎ text: `\cRed{text}` ∪ `\cnordEleven{text}`
- ◎ text: `\cOrange{text}` ∪ `\cnordTwelve{text}`
- ◎ text: `\cYellow{text}` ∪ `\cnordThirteen{text}`
- ◎ text: `\cGreen{text}` ∪ `\cnordFourteen{text}`
- ◎ text: `\cPurple{text}` ∪ `\cnordFifteen{text}`

Non-Nord Greens

◎ text: `\cDarkGreen{text}`

◎ text: `\cLightGreen{text}`

Polar Night

- ◎ ██████████ : ██████
- ◎ text : text
- ◎ text : text
- ◎ text : text

Polar Storm

- ◎ text : text
- ◎ text : text
- ◎ text : text

Polar Frost

- ◎ text : text
- ◎ text : text
- ◎ text : text
- ◎ text : text

Polar Aurora

- ◎ text : text
- ◎ text : text
- ◎ text : text
- ◎ text : text
- ◎ text : text

Deck Structures

Block Environments

Block Environment

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Example Environment

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Alert Environment

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Enumerated Lists

1. Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
2. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
    2.1 Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi.
    2.2 Morbi auctor lorem non justo.
3. Curabitur dictum gravida mauris.
4. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

Itemized Lists

⊙ Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

⊙ Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
  - Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi.
    ▷ Nulla malesuada porttitor diam.
    ▷ Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
  - Morbi auctor lorem non justo.

⊙ Curabitur dictum gravida mauris.

⊙ Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

✎ Remark: This theme does not support more than three levels of itemized items; however, this could easily be expanded in the style file.

Description Lists

Definition 1 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

Definition 2 Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

Using Listings Package for Code Printing

```
% testing
\documentclass[opt]{name}
\prob Solve the equation \( \cos x = \frac{1}{2} \)
for \( 0 \le x \le 2\pi \).

\soln A fantastic solution will follow.
```

Warning

Breaking Change! Listings is now used instead of Minted.

A Python Example

```python
import os
import sys
import subprocess
import getpass
from pathlib import Path
import shortuuid
from datetime import datetime
from tabulate import tabulate
```

Example >_ Additional text goes here

🔥 **Problem:** Include your problem here.

〰 **Solution:** A fantastic solution can be written here.

Theorem >_ Additional text goes here

Write your proposition here.

💡 **Proof:** Write a convincing proof here.

Fonts

Fonts

italics *The fast bulldog jumps the great happy wizard*

bold **The fast bulldog jumps the great happy wizard**

smallcaps THE FAST BULLDOG JUMPS THE GREAT HAPPY WIZARD
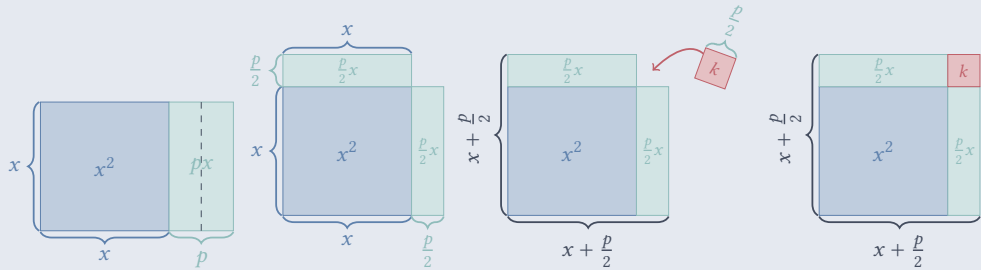
roman The fast bulldog jumps the great happy wizard

source The `fast bulldog jumps the great happy wizard`

Mathematics

Gaussian Probability Density Function

$$f\left(x \mid \mu, \sigma^2\right) = \frac{1}{\sqrt{2\sigma^2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

Completing The Square

Example >_ Expand & Simplify

🔥 **Problem:** Expand and simplify $2(x-3)^2 - 3(x+1)^2$.

Example >_ Expand & Simplify

𝓂 Solution:

$$
\begin{aligned}
2(x-3)^2 - 3(x+1)^2 &= 2(x + {}^-3)^2 + {}^-3(x+1)^2 \\
&= 2\left[(x + {}^-3)(x + {}^-3)\right] + {}^-3\left[(x+1)(x+1)\right] \\
&= 2\left[x^2 + {}^-6x + 9\right] + {}^-3\left[x^2 + 2x + 1\right] \\
&= 2(x^2) + 2({}^-6x) + 2(9) + {}^-3(x^2) + {}^-3(2x) + {}^-3(1) \\
&= 2x^2 + {}^-12x + 18 + {}^-3x^2 + {}^-6x + {}^-3 \\
&= 2x^2 + {}^-3x^2 + {}^-12x + {}^-3x + 18 + {}^-3 \\
&= {}^-1x^2 + {}^-18x + 15 \\
&= {}^-x^2 - 18x + 15
\end{aligned}
$$

Example >_ Completing The Square

 Problem: Solve the equation $x^2 + 2x - 3 = 0$ by completing the square.

∿ Solution:
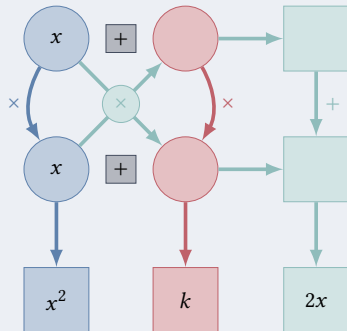
$$x^2 + 2x - 3 = 0$$
$$x^2 + 2x + {}^-3 = 0$$
$$x^2 + 2x + k + {}^-k + {}^-3 = 0$$

$$x^2 + 2x + k + {}^-k + {}^-3 = 0$$
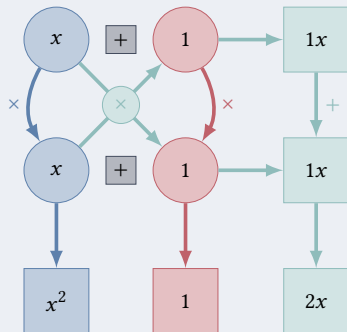$$x^2 + 2x + 1 + {}^-1 + {}^-3 = 0$$
$$(x + 1)^2 + {}^-4 = 0$$
$$(x + 1)^2 = 4$$
$$\sqrt{(x + 1)^2} = \sqrt{4}$$
$$|x + 1| = 2$$

Now we can consider both cases of $|x + 1|$.

Example >_ Completing The Square

Case I: Positive Case

$$x + 1 = 2$$
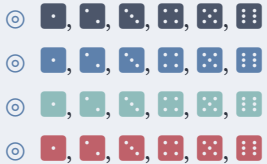$$x = {}^-1 + 2$$
$$= 1$$
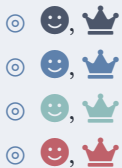
Case II: Negative Case

$$-(x + 1) = 2$$
$$x + 1 = {}^-2$$
$$x = {}^-1 + {}^-2$$
$$= {}^-3$$

Dice

- ⊡, ⊡, ⊡, ⊡, ⊡, ⊡
- ⊡, ⊡, ⊡, ⊡, ⊡, ⊡
- ⊡, ⊡, ⊡, ⊡, ⊡, ⊡
- ⊡, ⊡, ⊡, ⊡, ⊡, ⊡

Coins

- ☺, ♛
- ☺, ♛
- ☺, ♛
- ☺, ♛

Sample Space Set Example

	⊡	⊡	⊡	⊡	⊡	⊡
⊡	1	2	3	4	5	6
⊡	7	8	9	10	11	12
⊡	13	14	15	16	17	18
⊡	19	20	21	22	23	24
⊡	25	26	27	28	29	30
⊡	31	32	33	34	35	36

⊙ $\{\}$: \set{}

⊙ :: \suchthat

⊙ $\mathbb{U}$: \setU

⊙ $\mathbb{S}$: \setS

⊙ $\mathscr{C}$: \setComp

⊙ $\mathbb{N}$: \setN

⊙ $\mathbb{N}^*$: \setNs

⊙ $\mathbb{N}_{\geq 4}$: \setNi{\ge 4}

⊙ $\mathbb{W}$: \setW

⊙ $\mathbb{Z}$: \setZ

⊙ $\mathbb{Z}^+$: \setZp

⊙ $\mathbb{Z}^-$: \setZn

⊙ $\mathbb{Z}^*$: \setZs

⊙ $\mathbb{Z}_{\geq 4}$: \setZi{\ge 4}

⊙ $\mathbb{O}$: \setO

⊙ $\mathbb{E}$: \setE

⊙ $\mathbb{P}$: \setP

⊙ $\mathbb{Z}_{n^2}$: \setSquare

⊙ $\mathbb{Z}_{n^3}$: \setCubes

⊙ $\mathbb{Q}$: \setQ

⊙ $\mathbb{Q}^+$: \setQp

⊙ $\mathbb{Q}^-$: \setQn

⊙ $\mathbb{Q}^*$: \setQs

⊙ $\mathbb{Q}_{\geq 4}$: \setQi{\ge 4}

⊙ $\mathbb{R}$: \setR

⊙ $\mathbb{R}^+$: \setRp

⊙ $\mathbb{R}^-$: \setRn

⊙ $\mathbb{R}^*$: \setRs

⊙ $\mathbb{R}_{\geq 4}$: \setQi{\ge 4}

⊙ $\mathbb{C}$: \setR

References

References

[1] Lena Alfredsson and Hans Heikne. *Matematik 5000+ Kurs 1b Lärobok Digital.* OCLC: 1251871262. 2021. ISBN: 978-91-27-45820-8.

[2] David Rayner. *Complete mathematics for Cambridge IGCSE: Extended.* Fifth edition. Aspire succeed progress. Oxford: Oxford University Press, 2018. 493 pp. ISBN: 978-0-19-842507-6.