



# 基于 X 的隐身系统

## Nord Inspired by Stockholm

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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<sup>1</sup>, mTheme<sup>2</sup> and Flux<sup>3</sup>.
- ◎ Color theme based on Arctic Ice Studio's Nord Color Theme.
- ◎ Libertinus sans-serif fonts compiled with X<sub>E</sub>LA<sub>T</sub>E<sub>X</sub>.
- ◎ Dark (default) and Light Themes available.

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<sup>1</sup><https://github.com/benjamin-weiss/hsrmbeamertheme>

<sup>2</sup><https://github.com/matze/mtheme>

<sup>3</sup><https://github.com/pvanberg/flux-beamer>

# A Brief History

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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<sub>E</sub>La<sub>T</sub>E<sub>X</sub>** engine.

# Sorry ... No Guarantee

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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  $\text{\LaTeX}$  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  $\text{\TeX}$ nician wizard, so you have been warned! Please use with extreme **CAUTION**.



This theme and all the documentation is hosted on GitHub

Download – Fork – Contribute

<https://github.com/zjulson/sthlmNordBeamerTheme>



Figure: Hosted on GitHub

# Available on Overleaf

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This theme and all the documentation is hosted on Overleaf

[View on Overleaf.com](#)

<https://github.com/zjulson/sthlmNordBeamerTheme>

# Packages



Table: Packages explicitly called by `sthlmNORD` theme.

tikz	ragged2e	metalogo	tabulararray	currfile
datetime	<del>microtype</del>	textcomp	unicode-math	libertinus-oft
mathtools	amssymb	siunitx	calc	cancel
cases	fontawesome5	diffcoeff	wasysym	xfrac
<del>enumitem</del>	verbatim	minted	cleveref	<del>listings</del>



The following custom packages make up the `sthlmNORD` theme:

`zjutheme.sty` the main style file.

`zjucolor.sty` the style file that defines the nord color palette.

`zjumacros.sty` custom mathematics macros.

`zjutables.sty` setup tables for use with `tabulararray` pkg.

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# 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}
- ◎ 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: \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}
- ◎ text: \cBGGrey{text} ∪ \cnordSix{text}



## Polar Frost

- ◎ text: \cAquaBlue{text} u \cnordSeven{text}
- ◎ text: \cLightBlue{text} u \cnordEight{text}
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## Polar Aurora

- ◎ text: \cRed{text} u \cnordEleven{text}
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- ◎ text: \cYellow{text} u \cnordThirteen{text}
- ◎ text: \cGreen{text} u \cnordFourteen{text}
- ◎ text: \cPurple{text} u \cnordFifteen{text}



## Non-Nord Greens

- ◎ text: \cDarkGreen{text}
- ◎ text: \cLightGreen{text}



### Polar Night

- ① `text : text`
- ② `text : text`
- ③ `text : text`
- ④ `text : text`

### Polar Storm

- ① `text : text`
- ② `text : text`
- ③ `text : text`

### Polar Frost

- ① `text : text`
- ② `text : text`
- ③ `text : text`
- ④ `text : text`

### Polar Aurora

- ① `text : text`
- ② `text : text`
- ③ `text : text`
- ④ `text : text`
- ⑤ `text : text`

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# Block Environments

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## 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

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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.



- ◎ 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

---



## Warning

Breaking Change! Listings is now used instead of Minted.

# A Python Example

---



```
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.

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# Fonts

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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

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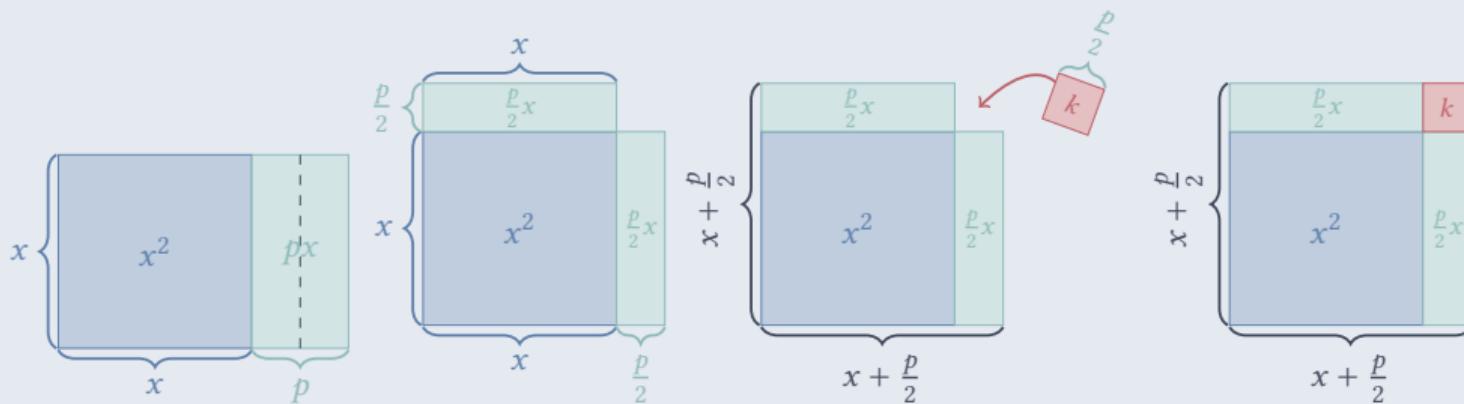


## Gaussian Probability Density Function

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



## Completing The Square



## Example >\_ Expand & Simplify

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

oxfordIGCSEext5th-C02-S04-E11-Q24[2]

## Example >\_ Expand & Simplify



~ Solution:

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

## Example > Completing The Square



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

ma2c-5000-2022-Q2119a[1]

## Example > Completing The Square

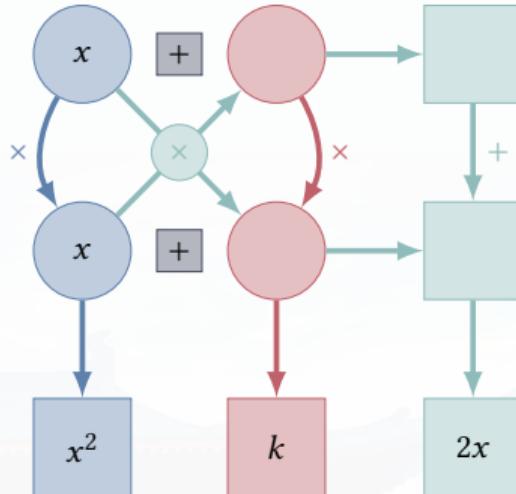


~ Solution:

$$x^2 + 2x - 3 = 0$$

$$x^2 + 2x + \textcolor{red}{-} 3 = 0$$

$$x^2 + 2x + \textcolor{red}{k} + \textcolor{red}{-} k + \textcolor{red}{-} 3 = 0$$



## Example > Completing The Square

$$x^2 + 2x + k - k - 3 = 0$$

$$x^2 + 2x + 1 - 1 - 3 = 0$$

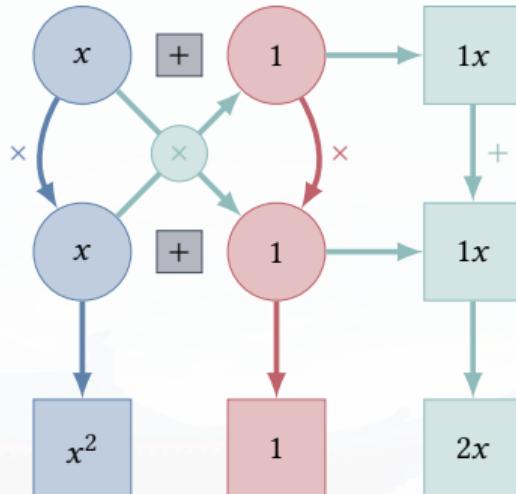
$$(x + 1)^2 - 4 = 0$$

$$(x + 1)^2 = 4$$

$$\sqrt{(x + 1)^2} = \sqrt{4}$$

$$|x + 1| = 2$$

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{} (Set)   | ◎ $\mathbb{Z}$ : \setZ (Integers)  | ◎ $\mathbb{Q}$ : \setQ (Rational numbers)  |
| ◎ $:: \text{suchthat}$ : \suchthat (Such that)  | ◎ $\mathbb{Z}^+$ : \setZp (Positive integers)                                  | ◎ $\mathbb{Q}^+$ : \setQp (Positive rational numbers)                                  |
| ◎ $\mathbb{U}$ : \setU (Universal set)  | ◎ $\mathbb{Z}^-$ : \setZn (Negative integers)                                  | ◎ $\mathbb{Q}^-$ : \setQn (Negative rational numbers)                                  |
| ◎ $\mathbb{S}$ : \sets (Sets)   | ◎ $\mathbb{Z}^*$ : \setZs (Integers including zero)                            | ◎ $\mathbb{Q}^*$ : \setQs (Rational numbers including zero)                            |
| ◎ $\mathcal{C}$ : \setComp (Complement)   | ◎ $\mathbb{Z}_{\geq 4}$ : \setZi{\geq 4} (Integers greater than or equal to 4) | ◎ $\mathbb{Q}_{\geq 4}$ : \setQi{\geq 4} (Rational numbers greater than or equal to 4) |
| ◎ $\mathbb{N}$ : \setN (Natural numbers)  | ◎ $\mathbb{O}$ : \setO (Empty set)   | ◎ $\mathbb{R}$ : \setR (Real numbers)  |
| ◎ $\mathbb{N}^*$ : \setNs (Natural numbers including zero)                            | ◎ $\mathbb{E}$ : \setE (Even numbers)  | ◎ $\mathbb{R}^+$ : \setRp (Positive real numbers)                                      |
| ◎ $\mathbb{N}_{\geq 4}$ : \setNi{\geq 4} (Natural numbers greater than or equal to 4) | ◎ $\mathbb{P}$ : \setP (Primes)  | ◎ $\mathbb{R}^-$ : \setRn (Negative real numbers)                                      |
| ◎ $\mathbb{W}$ : \setW (Whole numbers)  | ◎ $\mathbb{Z}_{n^2}$ : \setSquare (Squares)                                    | ◎ $\mathbb{R}^*$ : \setRs (Real numbers including zero)                                |
|   | ◎ $\mathbb{Z}_{n^3}$ : \setCubes (Cubes)                                       | ◎ $\mathbb{R}_{\geq 4}$ : \setQi{\geq 4} (Rational numbers greater than or equal to 4) |
|   |  | ◎ $\mathbb{C}$ : \setR (Complex numbers)   |

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allowframebreaks

- [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.



Thank you !