Stockholm Beamer Theme

sthlm v2.0.2 is based on hsrm & mTheme

MarkOlson.SE

Updated: 2017/04/10

Made in Sweden

File: 20150731-081156-rs2.2B-sthlmBeamerTemplate



Please use Metropolis Theme Instead

Thank you for wanting to use sthlm.

However, **you really should consider** using the Metropolis (mTheme) theme developed by Matthias Vogelgesang and the LaTeX community instead as it is very well maintained and documented.

https://goo.gl/r683yn

1

Overview

- 1. General Information
- 2. Colors
- 3. Blocks
- 4. Fonts
- 5. Features

General Information

sthlm Theme Information

sthlm theme was originally designed to bring pdflatex support and color to the unique beamer hsrm theme designed by Benjamin Weiss. Thank You Ben!

https://goo.gl/NRseuc

Since then, sthlm has borrowed heavily from mTheme developed by Matthias Vogelgesang.

sthlm Theme Information

sthlm continues to be a theme that can easily be modified through the style files. If you are looking for a packaged theme, then I highly recommend mTheme.

I use a custom version of **sthlm** for daily decks and make a vanilla version of the theme available for others to use and modify. - Enjoy!

sthml Build Information

sthlm theme has been designed and tested to work within the SageMathCloud (Linux) environment.

Warning of Build Issues

I cannot guarantee that the code used to create the sthlm theme is *error free*, *optimized*, *well written* nor *if it will work in your production environment*.

Have Fun!

If you have read this far, then you are probably interested in using / modifying this theme for your own project.

Everything you need is in the

- style files:
 - beamerthemesthlm.sty,
 - beamerfontthemesthlm.sty,
 - beamercolorthemesthlm.sty.

Get it on GitHub

This theme and all the documentation is hosted on GitHub

Download, Fork, Contribute

https://goo.gl/0Wg6xt



Figure: Hosted on GitHub

Thank You Overleaf

Special thank you to Overleaf - especially Dr. Lian Tze Lim for supporting those using the theme on Overleaf. Awesome work!

You can view and download the theme from Overleaf.

https://goo.gl/Z5zrsF



Figure: Thank You Overleaf

Theme Package Requirements

This theme requires that the following packages are installed:

- beamer
- backgrounds
- booktabs
- o calc

- o datetime
- ⊚ ragged2e
- o tikz

There is always the option of simplifying the theme to reduce the number of required packages.

Replace the Logo With Your Own

The Sigtunaskolan Humanistiska Läroverket logo, logo.png, should be replaced with your own. I teach within the Mathematics Institution at SSHL.



Figure: SSHL Logo

Theme Options

Option	Description	
newPxFont	newpxtext and newpxtext fonts will be	
	used (pdfLaTeX)	
progressbar	Frame Title progress bar	
sectionpages	Section pages	
fullfooter	Footers with logo	
numfoooter	Footers with page number only	
greybg	Frame background default is set to grey	
cblock	Blocks with colored background	
protectFrameTitle	Protect the frame title (if needed)	
valigncolumns	Vertically align columns	

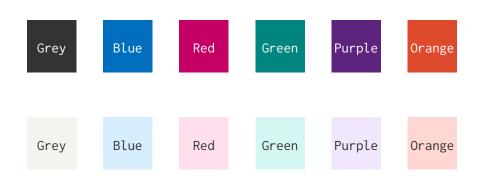
Colors

Color Style File

The sthlm theme style file beamerthemesthlm.sty references the beamercolorthemesthlm.sty file for the theme colors automatically.

If you wish to bring your own color theme, then you will have to either change the reference in the beamerthemesthlm.sty file or rename your style file to beamercolorthemesthlm.sty.

Primary Presentation Colors



Colored Text

Table: Colored Text

Red	LightRed	Red
Blue		Blue
Green		Green
Purple		Purple
Orange	LightOrange	Orange
Grey		DarkGrey

Green Background

Light Green Background

Great for examples

Blue Background

Light Blue Background

Great for definitions

Red Background

Light Red Background

Colored Title Block

Great for alerts

Purple Background

Light Purple Background

Great for Proofs

Simple Frames

Keeping it Simple

Plain Frame

Plain Frame

Blocks

Blocks

Block Title Here

Great for definitions

Alert Title Here

Great for definitions

Example Title Here

Great for examples

Blocks

Block Title Here

- o point 1
- o point 2

Blue Colored Blocks

Produced by using the cblock theme option

Additional Blocks

Alert Block

Highlight important information.

Red Colored Blocks

Produced by using the cblock theme option

Additional Blocks

Example Block

Examples can be good.

Green Colored Blocks

Produced by using the cblock theme option

Custom Blocks

Purple customization

Using the theme colors to generate colored blocks.

Fonts

No Special Fonts Required

This theme was originally made to work with pdflatex and the default latex fonts.

sthlm does comes with a pdflatex font option, newPxFont, which loads the following fonts:

- newpxtext for text
- cantarell for sans-serif
- inconsolata for sans-serif monospaced
- newpxmath for math

Please refer to the beamerfontthememsthlm.sty for the package requirements.

Features

Tables

Table: Selection of window function and their properties

Window	First side lobe	3 dB bandwidth	Roll-off
Rectangular	13.2 dB	o.886 Hz/bin	6 dB/oct
Triangular	26.4 dB	1.276 Hz/bin	12 dB/oct
Hann	31.0 dB	1.442 Hz/bin	18 dB/oct
Hamming	41.0 dB	1.300 Hz/bin	6 dB/oct

$$f'(x) = \lim_{\Delta x \to 0} \frac{f(x + \Delta x) - f(x)}{\Delta x}$$

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$$= \lim_{\Delta x \to 0} \frac{(x + \Delta x)^n - (x)^n}{\Delta x}$$

$$= \lim_{\Delta x \to 0} \frac{\binom{n}{0} x^n \Delta x^0 + \binom{n}{1} x^{n-1} \Delta x^1 + \dots + \binom{n}{n} x^0 \Delta x^n - x^n}{\Delta x}$$

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$$= \lim_{\Delta x \to 0} \frac{1x^n (1) + nx^{n-1} \Delta x^1 + \dots + 1(1) \Delta x^n - x^n}{\Delta x}$$

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$$= \lim_{\Delta x \to 0} \frac{1x^n (1) + nx^{n-1} \Delta x^1 + \dots + 1(1) \Delta x^n - x^n}{\Delta x}$$

$$= \lim_{\Delta x \to 0} \frac{x^n + nx^{n-1} \Delta x + \dots + \Delta x^n - x^n}{\Delta x}$$

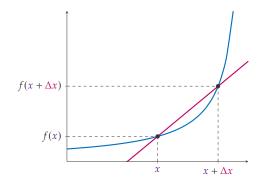
$$= \lim_{\Delta x \to 0} \frac{Ax(nx^{n-1} + \dots + \Delta x^{n-1})}{Ax}$$

$$= nx^{n-1}$$

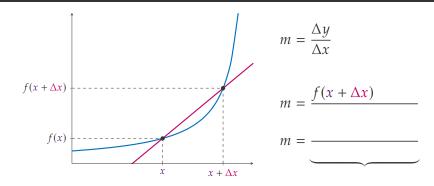
Functions

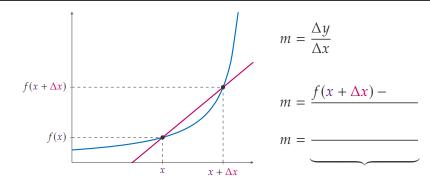
Gaussian Probability Density Function

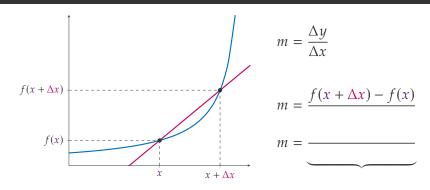
$$f(x \mid \mu, \sigma^2) = \frac{1}{\sqrt{2\sigma^2 \pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

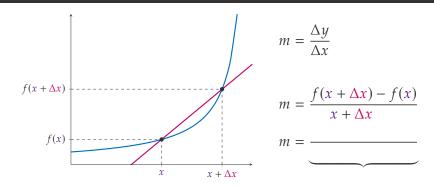


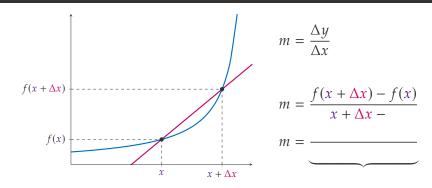
$$m = \frac{\Delta y}{\Delta x}$$

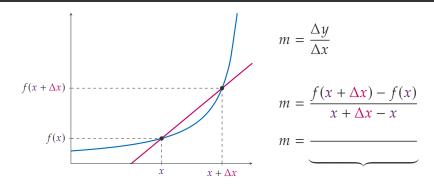


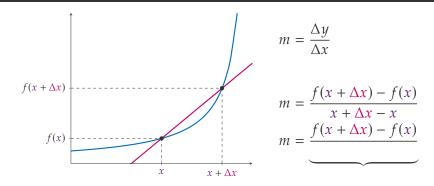


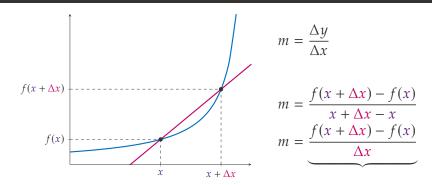


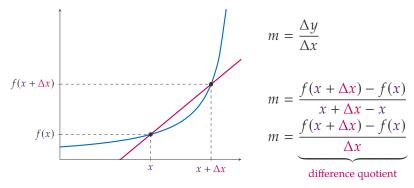






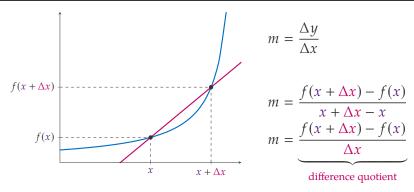






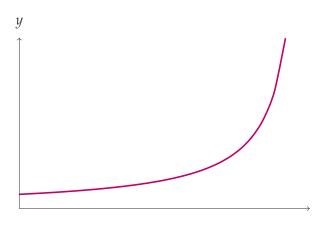
The slope of the secant line

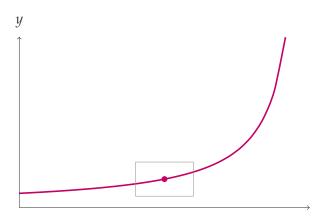
o can be found using the difference quotient

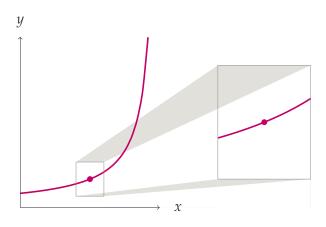


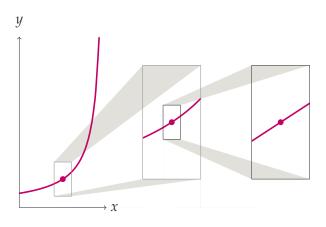
The slope of the secant line

- o can be found using the difference quotient
- \odot represents a function's average slope on the interval $[x, x + \Delta x]$









PGFPlots Example

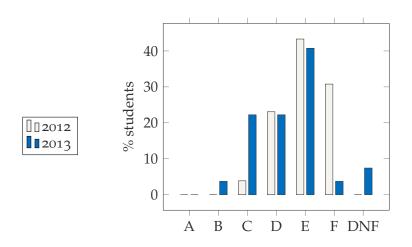


Figure: Consistent improvement over the last year

Multiple Columns

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam.

- Point 1
 - Sub point a
 - Sub point b
- Point 2

References



European Broadcasting Union
Specification of the Broadcast Wave Format (BWF)
2011

About

This sthlm beamer theme is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

If you have any questions or comments

Website: markolson.se

Twitter: @markolsonse

Instagram: @markolson.se

THE END