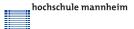
# Gradle - Yet another Build-Tool?!

Vortrag im Rahmen von Large-Scale Development (LSD)

Felix Hefner, Max Jando & Severin Kohler

27. Oktober 2017

Hochschule Mannheim, WS 2017



## 

- 1. Was ist Gradle?
- 2. Colors
- 3. Blocks
- 4. Fonts
- 5. Features

# Was ist Gradle?

## Gradle?!

## Gradle?!

Ausgabe des Befehls man gradle im Terminal:

## 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

#### 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

## Theme Package Requirements

This theme requires that the following packages are installed:

- beamer
- backgrounds
- o booktabs
- o calc

- o datetime
- o ragged2e

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

## Replace the Logo With Your Own

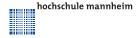


Abbildung: SSHL Logo

# 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	

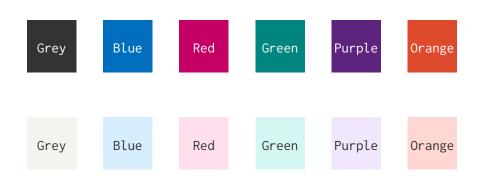
## Colors

## 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**

Tabelle: Colored Text

Red		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**

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

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

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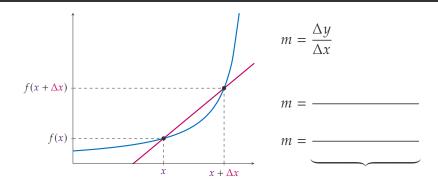
$$= \lim_{\Delta x \to 0} \frac{Ax(nx^{n-1} + \dots + \Delta x^{n-1})}{Ax}$$

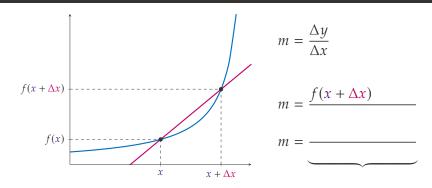
$$= nx^{n-1}$$

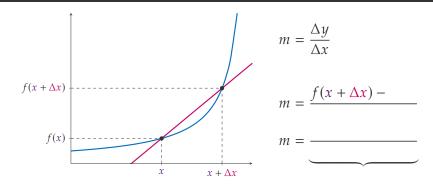
#### **Functions**

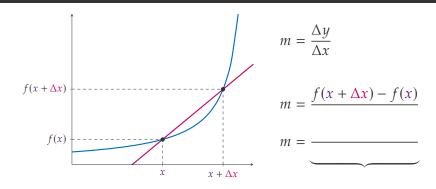
#### Gaussian Probability Density Function

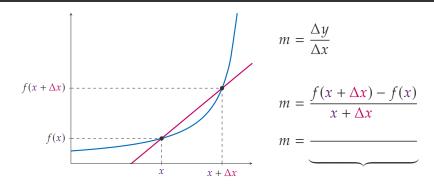
$$f(x \mid \mu, \sigma^2) = \frac{1}{\sqrt{2\sigma^2 \pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

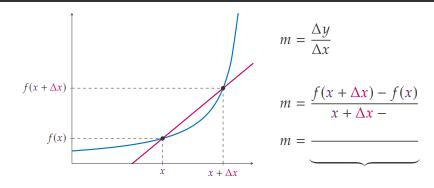


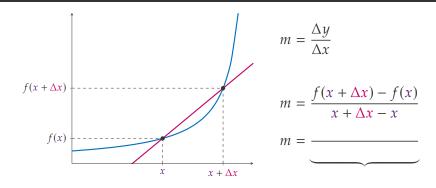


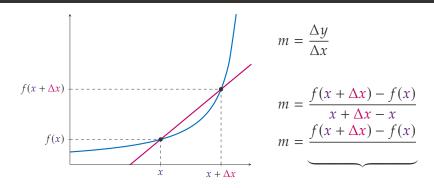


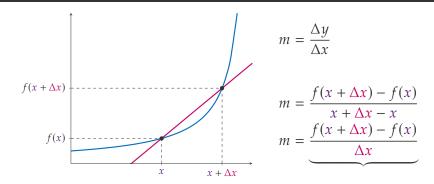


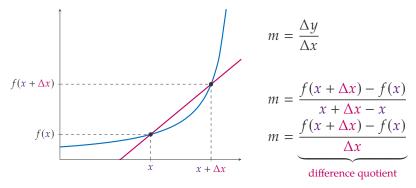






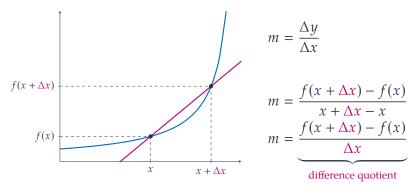






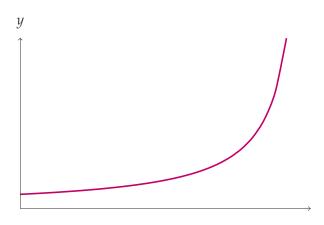
The slope of the secant line

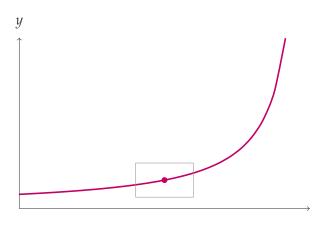
can be found using the difference quotient

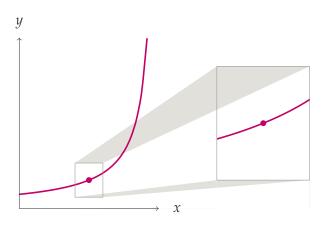


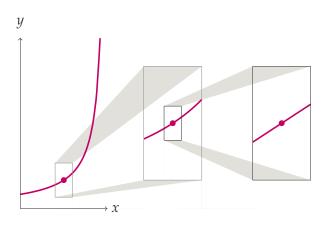
The slope of the secant line

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









# PGFPlots Example

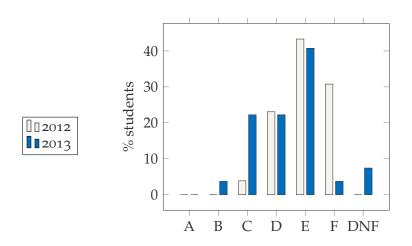


Abbildung: Consistent improvement over the last year

# 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





#### **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

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THE END