

随机几何在无线网络中的应用

APPLICATION OF STOCHASTIC GEOMETRY IN WIRELESS NETWORKS

夏洪星

xiahongxing@gmail.com

2015年12月12日



西安电子科技大学
XIDIAN UNIVERSITY

通信工程学院
School of Telecommunications Engineering

本主题修改自斯德哥尔摩stads国际学校的beamer主题。

字体所有权警告!

本主题所使用的Stockholms stad字体所有权并没有获得公共许可。

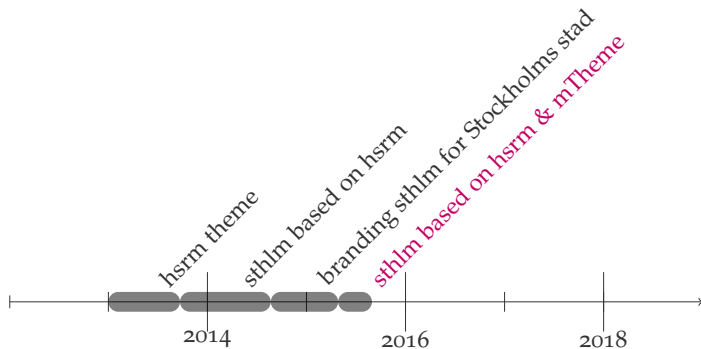
sthlm主题用于支持斯德哥尔摩Stad学校的教学任务。

编译问题警告!

作者本人并不保证本主题在阁下的工作环境中无错误或警告地通过编译。

事实上，本人强烈建议您使用mtheme主题来代替sthlm主题。

sthlm 基于 HSRM & mTheme 主题构建



sthlm主题依赖于Benjamin Weiss的 **HSRM** 主题和 Matthias Vogelgesang 的 **mTHEME**主题.

1. 引言
2. 更新日志
3. 颜色
4. 特点
5. 教程

引言

Beamer是啥?

Beamer是用于生成漂亮演示文档的LaTeX类.

sthlm Beamer 主题:

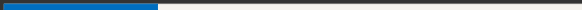
- 使用utf8编码方式输入 $\frac{dy}{\cos(\theta)} = 5x^4 + x_0 + \sqrt{5}$
- 使用pdfLaTeX编译 $\sqrt{4} + \sqrt[3]{4} + 66$

更新日志

NEW in version 0.6

- beamerthemesthl.m.sty
 - 从header中去掉日志
 - 去掉垂直列对齐支持
 - 去掉列表包主持
 - 加入PxFont选项使用如下字体:
 - newpertext
 - newpxmath

颜色



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

Note:

The original sthlm color theme can now be used in place of Stockholm Stads color palette by including `\usecolortheme{sthlmv42}` in the preamble.

主配色方案

DarkGrey

RGB: 51, 51, 51
hex: #333333

Blue

RGB: 0,110,191
hex: #006ebf

Red

RGB: 196,0,100
hex: #c40064

Green

RGB: 0,134,127
hex: #00867f

Grey

RGB: 245,243,238
hex: #f5f3ee

Light Blue

RGB: 214,237,252
hex: #d6edfc

Light Red

RGB: 254,222,237
hex: #fedeed

Light Green

RGB: 0,134,127
hex: #d5f7f4

候选配色方案

Orange

RGB: 221,74,44
hex: #dd4a2c

Purple

RGB: 93,35,125
hex: #5d237d

Yellow

RGB: 252,191,10
hex: #fcbfoa

ISSR Blue

RGB: 0,111,174
hex: #0066cc

Light Orange

RGB: 255,215,210
hex: #ffd7d2

Light Purple

RGB: 241,230,252
hex: #f1e6fc

ISSR Grey

RGB: 167,169,172
hex: #999999

所需要的主题包

This theme requires that the following packages are installed:

- `{beamer}`
- `{calc}`
- `{eso-pic}`
- `[utf8]{inputenc}`
- `{listings}`
- `{pgf}`
- `{xcolor}`

You can change the color of a frame background by placing the frame within a group:

```
\begingroup
\setbeamercolor{background canvas}{bg=sthlmLightRed}
\begin{frame}
    % Your frame content goes here
\end{frame}
\endgroup
```

To use the newpx fonts option you need the following packages:

- `{newpxtext}`
- `{newpxmath}`
- `[T1]{fontenc}`

To enable the newpxtext and newpxmath fonts include the **PxFONT** class option.

- `\documentclass[compress,PxFont]{beamer}`

Theme Options

Option	Description
noprogressbar	Frame Title progress bar will be suppressed
nosectionpages	Section pages will be suppressed.
nopagenumbers	Page Numbers will be suppressed
newPxFont	newpxtext and newpxtext fonts will be used (pdfLaTeX)
sthlmStadFont	Proprietary Stockholms Stad fonts will be used (XeTeX)

Block Title Here

- point 1
- point 2

```
\begin{block}{Block Title Here}
  \begin{itemize}
    \item point 1
    \item point 2
  \end{itemize}
\end{block}
```

ALERT BLOCK

Highlight important information.

- one
- two

```
\begin{alertblock}{Alert Block}
Highlight important information.
\end{alertblock}
```

EXAMPLE BLOCK

Examples can be good.

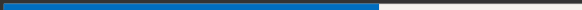
```
\begin{exampleblock}{Example Block}  
    Examples can be good  
\end{exampleblock}
```

Purple customization

Using the theme colors to generate colored blocks.

```
\begingroup
\setbeamercolor{block title}{fg=white, bg=sthlmPurple}
\setbeamercolor{block body}{bg=sthlmLightPurple}
\begin{block}{Custom Blocks}
    Using the theme colors to generate colored blocks.
\end{block}
\endgroup
```

特点



带版权信息的图片



版权属于 Netzlemming, CC BY-NC 3.0 License

表 1: 窗函数选择及其性质

Window	First side lobe	3 dB bandwidth	Roll-off
Rectangular	13.2 dB	0.886 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

傅里叶积分

$$F(j\omega) = \int_{-\infty}^{\infty} f(t) \cdot e^{-j\omega t} dx$$

PGFPlots Bar 画图示例

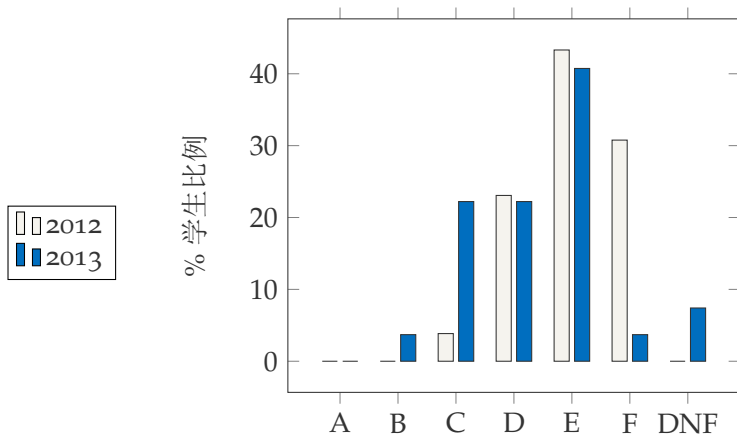
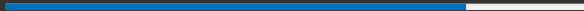


图 1: 去年的兼容性提高情况

教程



A section page will be generated and the section name included in the presentation header for each section of the presentation with the current section being emphasized. If you include subsections in your presentation, then a small block will appear under the section name in the header for each frame. Once a frame has been viewed it will turn green.

It's worth noting that a frame can make up multiple slides.

```
\section{Main Section}  
\subsection{Main Subsection}  
\begin{frame}  
\frametitle{Presentation Structure}  
% Frame Contents Here
```

包含演示的节标题

```
\maketitle
```

对于较长的演示，请使用紧凑的内容目录。

```
\begin{frame}{Overview}  
  \tableofcontents[hideallsubsections]  
\end{frame}
```

任何时候您都可以用定义来高亮文本:

- 这尤其重要!

您可以用不同的方法来呈现您的演示.

- Splitshow (Mac OS X)

<https://code.google.com/p/splitshow/>

- pdf-presenter (Windows)

<https://code.google.com/p/pdf-presenter/>

这是第一列的内容.

- 要点一
- 要点二



Alan V. Oppenheim

Discrete - Time Signal Processing

Prentice Hall Press, 2009



European Broadcasting Union

Specification of the Broadcast Wave Format (BWF)

2011

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

○ mark@hendryolson.com