

Smart usage of context information for the analysis, design and generation of power-aware policies for mobile sensing apps

Doctoral Seminar 2016

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Agenda

Introduction

- License

Installation

- GNU/Linux

- Microsoft Windows

- Mac OS X

- Required Packages

User Interface

- Loading the Theme and Theme Options

- Modifying the theme

- AAU Waves

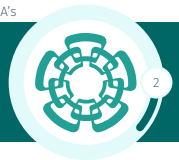
- Widescreen Support

Feedback

- Bugs, Comments and Suggestions

- Contact Information

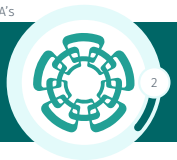
Introduction



Why the AAU Simple beamer theme?

- ▶ During the last couple of years, I have shared the beamer themes named **AAU Sidebar** and **Aalborg** on my website <http://kom.aau.dk/~jkn>.

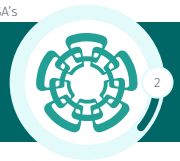
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- ▶ Both of these themes feature a sidebar in which the table of content and progress are shown.

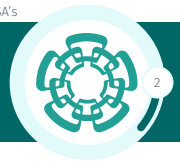
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- ▶ Both of these themes feature a sidebar in which the table of content and progress are shown.
- ▶ Some people (in particular one - Yes, I am looking at you, Mads) have been asking about an AAU beamer theme without a sidebar. The present theme named **AAU Simple** is precisely that.

Introduction



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- ▶ Some people (in particular one - Yes, I am looking at you, Mads) have been asking about an AAU beamer theme without a sidebar. The present theme named **AAU Simple** is precisely that.
- ▶ Like the **AAU Sidebar** theme, the theme is not really useful to people not affiliated with AAU due to the tight integration between the theme and the round AAU logo. However, everyone is of course encouraged to download and modify the theme according to their own needs.

Introduction

License



- ▶ The AAU logo is covered by copyright rules. I have used the logo from <http://aau.designguiden.dk>. As long as you use the theme for making presentations in connection with your work at AAU, you are allowed to use the AAU logo.

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- ▶ The rest of the theme is provided under the GNU General Public License v. 3 (GPLv3). This basically means that you can redistribute it and/or modify it under the same license. For more information on the GPL license see <http://www.gnu.org/licenses/>

Installation



The theme consists of four files

1. `beamerthemeAAUsimple.sty`
2. `beamerinnerthemeAAUsimple.sty`
3. `beamerouterthemeAAUsimple.sty`
4. `beamercolorthemeAAUsimple.sty`

The theme can either be installed for local or global use.



Installation

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The theme can either be installed for local or global use.

Local Installation

The simplest way of installing the theme is by placing the four theme files in the same folder as your presentation. When you download the theme, the four theme files are located in the `local` folder.

Installation



Global Installation

- ▶ If you wish to make the theme globally available, you must put the files in your local latex directory tree. The location of the root of the local directory tree depends on the operating system and the latex distribution. On the following slides, you can read the instructions for some common setups.
- ▶ When you download the theme, the four theme files are embedded in a directory structure (in the **global** folder) ready to be copied directly to the root of your local directory tree.
- ▶ On the following slides, we refer to this directory structure as `<dirstruct>`. **Note** that some parts of the directory may already exist if you have installed other packages in your local latex directory tree. If this is the case, you simply merge `<dirstruct>` with your existing setup.



Installation

GNU/Linux

Ubuntu with TeX Live

1. Place the `<dirstruct>` in the root of your local latex directory tree. By default it is
`~/texmf`
If the root does not exist, create it. The symbol `~` refers to your home folder, i.e., `/home/<username>`
2. In a terminal run
`$ texhash ~/texmf`



Installation

Microsoft Windows

Windows with MiKTeX

Apparently, MiKTeX does not include a local latex directory tree by default. Therefore, you first have to create it.

1. To do this, create a folder **<somewhere>** named, e.g., **texmf**
2. Add this folder in the Roots tab of the MiKTeX Settings dialog
3. Place the **<dirstruct>** in your newly created local latex directory tree
<somewhere>\texmf
4. Open the MiKTeX Settings dialog and click Refresh FNDB.



Installation

Microsoft Windows

Windows with TeX Live

In the advanced TeX Live Installer, you can manually change the default position of the root of the local latex directory tree. However, we assume the default position below.

1. Place the `<dirstruct>` in your local latex directory tree

`%USERPROFILE%\texmf`

If it does not exist, create it. In XP `%USERPROFILE%` is

`c:\Document and Settings\<username>`

by default, and in Vista and above it is by default

`c:\Users\<username>`

2. Open the TeX Live Manager dialog and select 'Update filename database' under 'Actions'.



Installation

Mac OS X

Mac OS X with MacTeX

Place the `<dirstuct>` in the root of your local latex directory tree.

By default it is

`~/Library/texmf`

If the root does not exist, create it. The symbol `~` refers to your home folder, i.e., `/home/<username>`



Installation

Required Packages

Of course, you have to have the Beamer class installed. In addition, the theme loads two packages

- ▶ TikZ¹
- ▶ calc

These packages are very common and should therefore be included in your latex distribution.

¹By the way, TikZ is an awesome package for creating beautiful graphics. If you do not believe me, then have a look at these [online examples](#) or the [pgf user manual](#). If you want to create beautiful plots, you should use the pgfplots package which is based on TikZ.



User Interface

Loading the Theme and Theme Options

The Presentation Theme

It is very simple to load the presentation theme. Just type

```
\usetheme[<options>]{AAUsimple}
```

which is exactly the same way other beamer presentation themes are loaded. The presentation theme loads the inner, outer and color AAU Simple theme files and passes the **<options>** on to these files.

The Inner Theme

You can load the inner theme directly by

```
\useinnertheme{AAUsimple}
```

and it has no options.



User Interface

Loading the Theme and Theme Options

The Outer Theme

You can load the outer theme directly by

```
\useoutertheme[<options>]{AAUsimple}
```

Currently, the theme options are

- ▶ `progressstyle={fixedCircCnt, movCircCnt, or corner}`: set how the progress is illustrated. The value `fixedCircCnt` is the default.
- ▶ `rotationcw`: set the direction of the rotation of the progress circle to clockwise instead of counterclockwise. This option has only effect for the circular progress bars.
- ▶ `shownavsym`: show the navigation symbols



User Interface

Loading the Theme and Theme Options

The Color Theme

You can load the color theme directly by

```
\usecolortheme{AAUsimple}
```



User Interface

Loading the Theme and Theme Options

The Color Theme

You can load the color theme directly by

```
\usecolortheme{AAUsimple}
```

The Color Element AAUsimple

The color theme defines a new beamer color element named **AAUsimple** whose foreground and background colors are

- ▶ fg: light blue ({RGB}{194,193,204})
- ▶ bg: dark blue ({RGB}{33,26,82})

You can use these colors in the standard beamer way by using the command `\usebeamercolor[<fg or bg>]{AAUsimple}`. See the beamer manual for instructions.



User Interface

Loading the Theme and Theme Options

The Color Theme

You can load the color theme directly by

```
\usecolortheme{AAUsimple}
```

The Color Element AAUsimple

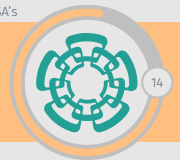
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- ▶ fg: light blue ({RGB}{194,193,204})
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You can use these colors in the standard beamer way by using the command `\usebeamercolor[<fg or bg>]{AAUsimple}`. See the beamer manual for instructions. Note that this version of the theme is an official AAU version, in accordance with the [AAU design guide](#). However, you can easily change it (including the colour of the logo) by following the steps in `beamercolorthemeAAUsimple.sty`.

User Interface

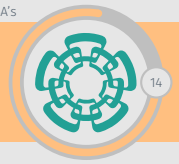
Modifying the Theme



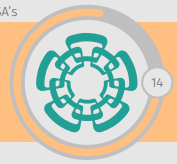
- ▶ The default configuration of fonts, colors, and layout complies with the **AAU design guidelines** and is the **official** version of the theme.

User Interface

Modifying the Theme



- ▶ The default configuration of fonts, colors, and layout complies with the **AAU design guidelines** and is the **official** version of the theme.
- ▶ However, you can modify specific elements of the theme through the templates provided by the beamer class. Please refer to the beamer user manual for instructions.



User Interface

Modifying the Theme

- ▶ The default configuration of fonts, colors, and layout complies with the **AAU design guidelines** and is the **official** version of the theme.
- ▶ However, you can modify specific elements of the theme through the templates provided by the beamer class. Please refer to the beamer user manual for instructions.
- ▶ For example, on this slide the following commands have been used
 - ▶ Change the header colours:
`\setbeamercolor{AAUsimple}{fg=blue!20,bg=red!50}`
 - ▶ Change the color of the structural elements:
`\setbeamercolor{structure}{fg=black}`
 - ▶ Change the frame title text color:
`\setbeamercolor{frametitle}{use=structure,fg=structure.fg}`
 - ▶ Change the background color of the text
`\setbeamercolor{normal text}{bg=gray!20}`



User Interface

The AAU Waves Background Image

- In this documentation, the title page frame and the last frame have the AAU waves as the background image. The AAU waves background image can be added to any single frame by wrapping a frame in the following way

```
\aauwavesbg  
\begin{frame}[<options>]{Frame Title}{Frame  
Subtitle}  
...  
\end{frame}}
```



User Interface

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```
{\aauwavesbg
\begin{frame}[<options>]{Frame Title}{Frame
Subtitle}
...
\end{frame}}
```
- ▶ Ideally, I would like to create a new frame option called **aauwavesbg** which can enable the AAU waves background. However, I have not been able to figure out how such an option can be added. If you know how this can be done, please contact me.



User Interface

Widescreen Support

Widescreen Support

Newer projectors and almost any modern TV support a widescreen format such as 16:10 or 16:9. Beamer (\geq v. 3.10) supports various aspect ratios of the slides. According to section 8.3 on page 77 of the Beamer user guide v. 3.10, you can write

```
\documentclass[aspectratio=1610]{beamer}
```

to get slides with an aspect ratio of 16:10. You can also use 169, 149, 54, 43 (default), and 32 to get other aspect ratios.

Feedback

Bugs, Comments and Suggestions



- There are probably still some bugs in the theme. If you should find one, then please let me know. No bug is too small!



Feedback

Bugs, Comments and Suggestions

- ▶ There are probably still some bugs in the theme. If you should find one, then please let me know. No bug is too small!
- ▶ Also, please contact me, if you have some exciting new ideas or just some simple usability improvements.



Feedback

Contact Information

In case you have any comments, suggestions or have found a bug, please do not hesitate to contact me. You can find my contact details below.

Rafael Pérez Torres
<http://kom.aau.dk/~jkn>
Niels Jernes Vej 12, A6-309
9220 Aalborg Ø

Thank you for using this theme!

