The hackthefootline package

https://github.com/SFr682k/hackthefootline

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Dedicated to all the ETFX beamer users ...

...who load two different themes in the same presentation or redefine commands to obtain the desired footline ...

...and the other guys just using \setbeamertemplate

Abstract

Arbitrary footline selection and configuration for LETEX beamer's standard themes. hackthefootline is a package taking over, defining and redefining different footlines, so they can be configured using key-value syntax.

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Dependencies and other requirements

beamer Since hackthefootline is designed to modify beamer's footlines, it is incompatible to any other document class. Therefore, load this package only in beamer documents!

pgfkeys hackthefootline heavily depends on the pgfkeys package for handling the whole key-

value stuff.

Also, additional sophisticated features require the following packages:

appendixnumber- The appendixnumberbeamer package implements a simple solution for appendix frames

beamer not being calculated into the total number of frames

etoolbox Provides access on ε -TeX primitives

calc Required for basic calculations

numprint Prints out numbers, counters and lengths

However, the four latter dependencies can be removed by using some package options. See section 2.2 for further details.

License

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The latest version of this license is available at http://www.latex-project.org/lppl.txt and version 1.3c or later is part of all distributions of ETEX version 2008-05-04 or later.

This work has the LPPL maintenace status 'maintained'. The current maintainer of this work is Sebastian Friedl.

This work consists of the following files:

- hackthefootline.sty
- hackthefootline-examples.tex and
- hackthefootline-doc.tex

Acknowledgement

The basic layout of the two– and three–column footline is based on the original ETeX beamer split and infolines outer themes written by Till Tantau.

Notice: Behavior inside the presentation's appendix

By default, this package *does not count appendix frames* into the total number of frames and resets the counter for frame numbers to 1 as soon as the \appendix command is used. Also, frame numbers won't be displayed on footlines inside the appendix.

This behavior can be suppressed by passing the countappendixframes option.

1 Using the package

The \usepackage[<0ptions>]{hackthefootline} command loads the package¹. A list of all available options can be found in section 2.

Important note: You *have* to pass the *footline's number of columns* as an option to the package (available: onecol, twocols or threecols). If you don't do so, the footline gets removed completely.

See section 5.1 for some examples.

2 Package options

2.1 Options influencing the footline's configuration

These options determine the number of columns being used for the footline.

You *have* to pass one of these options when loading hackthefootline; otherwise the footline will be removed completely.

onecol The "initial footline hack" produces a one-column footline

twocols The "initial footline hack" produces a two-column footline

threecols The "initial footline hack" produces a three-column footline

2.2 Options influencing the package's behavior

These options can be passed to disable additional features and remove dependencies on other packages.

countappendixframes If the countappendixframes option is passed to the package, appendix frames are counted into the total number of frames.

Removes the following dependencies: appendixnumberbeamer, etoolbox

nofun Doesn't support frame numbers being shown as "percent of presentation" *Removes the following dependencies:* calc, numprint

3 Configuring the footline

The internal mechanisms of hackthefootline are using templates for displaying the provided information. Each template is available in different styles, which can be switched using the provided key value syntax:

\htfconfig Use \htfconfig{key1=value1, key2=value2, ...} to modify the current configuration of the footline. Changes apply instantly.

See section 5.2 for examples.

All available keys and values are listed below being depicted as follows:

Description of the values' effects

¹To do so, the package has to be installed in a location where MT_EX is able to find it

Annotations:

- The default values of the keys depend on the number of columns chosen when loading the package. See section 4 for further details.
- *Templates not visible* in the default configuration have been hidden by setting the value of the according key to none. Apply another value to this key and the template will show up.

Templates visible in the default configuration can be hidden by setting the value of the according key to none (there's only one exception: atsep). See section 5.2 for examples.

The number of colums used for the footline: **one** Use a footline consisting of a single column **two** Use a footline consisting of two columns three Use a footline consisting of three columns **none** Remove the footline completely This key is provided although it is *not* recommended to change its value within a document. When initializing hackthefootline using a column option and switching to the none style, there will be a whitespace "reserved" for the footline left. The other way round, when initializing hackthefootline without a column option and switching to a footline, the footline will be cut off at half of its height. title short, long, none Sets the title type displayed in the footline: **short** Show the short title given in the square braces of the \title command. When no short title is given, the long title will be used. **long** Show the long title given in the curly braces of the \title command. **none** Don't show any title inside the footline authinst onlyauthor, onlyinst, instpths, authpths, both, none Influences the way author and institute are displayed: **onlyauthor** Show only the author's name **onlyinst** Show only the institute's name **instpths** Show both, author and institute, but put the institute into parentheses **authpths** Show both, author and institute, but put the author into parentheses

All templates use the values specified for short author / short institute.

both Show both and separate them using a comma

none Show neither author, nor institute

```
The date displayed in the footline:
       short Show the short date
       long Show the long date
       none Do not show any date
Controls the type of frame number shown in the footline:
       counter Only show the number of the current frame
       fraction Show the number of the current frame as well as the total number of frames
       percent Display the current progress of the presentation displayed as a percent value
           When setting this value, make sure that you didn't pass the nofun option when load-
           ing the package, otherwise an error message will be thrown.
       none Do not show frame numbers
       atsep
       Sets the character used to separate author and title when using the onecol footline:
       colon Use a colon as separator
       comma Use a comma as separator
       space Use a space as separator
```

4 Default configurations

Depending on the selected number of columns, the default configuration of the footlines is as follows:

One-column footline

```
\htfconfig{%
    title=short, authinst=both,
    date=none, framenrs=fraction, atsep=colon}
```

Short author, Short institute: Short title

1/1

Two-column footline

```
\htfconfig{%
    title=short, authinst=onlyauthor,
    date=none, framenrs=none}
```

Short author

Short title

Three-column footline

\htfconfig{%
 title=short, authinst=instpths,
 date=short, framenrs=fraction}

Short author (Short institute) Short title Short date 1/1

5 Examples

5.1 Setting up hackthefootline

Example 1: \usepackage[onecol]{hackthefootline}

Effect: A one-column footline

Short author, Short institute: Short title 1/1

Example 2: \usepackage[twocols]{hackthefootline}

Effect: A two-column footline

Short author Short title

Example 3: \usepackage[threecols]{hackthefootline}

Effect: A three-column footline

Short author (Short institute) Short title Short date 1/1

Example 4: \usepackage{hackthefootline}

Effect: The footline gets removed

5.2 Switching templates

This section assumes, that the \usepackage[twocols]{hackthefootline} command was used to load the hackthefootline package.

The preamble contains the following commands for setting the information about title, author, institute and date:

\title[Short Introduction]{%

A short introduction on \texttt{hackthefootline}'s facilities} \author[S. Friedl]{Sebastian Friedl} \institute[Some Institute]{Some Institute far, far away} \date[2018/01/15]{January 15, 2018}

We will start with step 1 and continue further on, each step is changing the result of the last one.

Initial style:

S. Friedl Short Introduction

Step 1: Show fraction frame numbers

Command: \htfconfig{framenrs=fraction}

Effect:

S. Friedl Short Introduction 1/1

Step 2: Show the short version of the date

Command: \htfconfig{date=short}

Effect:

2018/01/15 S. Friedl Short Introduction 1/1

Step 3: In addition to the author, show the insitute in parentheses

Command: \htfconfig{authinst=instpths}

Effect:

2018/01/15 S. Friedl (Some Institute) Short Introduction 1/1

Step 4: Show the long, full title

Command: \htfconfig{title=long}

Effect:

2018/01/15 S. Friedl (Some Institute) A short introduction on hackthefootline's facilities 1/1

Step 5: The right column is too full now. Remove the frame numbers

Command: \htfconfig{framenrs=none}

Effect:

2018/01/15 S. Friedl (Some Institute) A short introduction on hackthefootline's facilities

Step 6: Switch to a one-column footline and remove the date

Command: \htfconfig{cols=one, date=none}

Effect:

S. Friedl (Some Institute): A short introduction on hackthe footline's facilities

Step 7: Remove the footline

Command: \htfconfig{cols=none}

Effect: No footline will be shown (but a space above the frame's bottom ...)