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

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

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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- **Only required when using beamer version 3.48 and older.** This package is only required when using beamer version 3.48 or older. If you are using beamer version 3.49 or later¹,

when using beamer version 3.48 or older. If you are using beamer version 3.49 or later¹, hackthefootline will rely on beamer's internal appendix frame numbering mechanisms.

etoolbox Provides access on ε -T_FX 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.

Notice: Behavior inside the presentation's appendix

By default, appendix frames are *not* counted into the total number of frames when using hackthefootline. Appendix frame numbers will be counted from 1 when using fraction frame numbers.

Also, frame numbers won't be displayed on footlines inside the appendix until this is changed using the means of the \htfconfig command.

This behavior can be suppressed by passing the countappendixframes option.

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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

¹i. e. T_EXLive 2018 and later

1 Using the package

The \usepackage[<0ptions>]{hackthefootline} command loads the package². 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

²To 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.

cols	one, two, three, none
	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
	Although the cols key's value changes, the other keys' values stay the same. If you change the number of columns of a footline, the other keys should be adjusted as well.
	Warning: Changing this key's value too often might distract your audience.
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
	both Show both and separate them using a comma
	none Show neither author, nor institute

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