

# The **hackthefootline** package

<https://github.com/SFr682k/hackthefootline>

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*Dedicated to all the  $\text{\LaTeX}$  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

*This documentation is currently updated to describe version 2018/01/14 and some sections may be written badly.* **hackthefootline – Arbitrary footline selection and configuration for  $\text{\LaTeX}$  beamer’s standard themes.** **hackthefootline** is a package taking over, defining and redefining different footlines, so they can be configured using key-value syntax.

## Contents

Dependencies and other requirements . . . . .	2
License . . . . .	2
Acknowledgement . . . . .	2
Notice: Behavior inside the presentation’s appendix . . . . .	2
<b>1 Using the package</b>	<b>3</b>
<b>2 Package options</b>	<b>3</b>
2.1 Options influencing the footline’s configuration . . . . .	3
2.2 Options influencing the package’s behavior . . . . .	3
<b>3 Configuring the footline</b>	<b>3</b>
<b>4 Default configurations</b>	<b>5</b>
<b>5 Examples</b>	<b>6</b>
5.1 Setting up <code>hackthefootline</code> . . . . .	6
5.2 Switching templates . . . . .	6

## Dependencies and other requirements

beamer	Since <code>hackthefootline</code> is designed to modify beamer's footlines, it is incompatible to any other document class. Therefore, load this package only in beamer documents!
pgfkeys	<code>hackthefootline</code> heavily depends on the <code>pgfkeys</code> package for handling the whole key-value stuff.

Also, additional sophisticated features require the following packages:

appendixnumber-beamer	The <code>appendixnumberbeamer</code> package implements a simple solution for appendix frames not being calculated into the total number of frames
etoolbox	Provides access on $\epsilon$ -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  $\TeX$  version 2008-05-04 or later.

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

This work consists of the following files:

- `hackthefootline.sty` and
- `hackthefootline-doc.tex`

## Acknowledgement

The basic layout of the two- and three-column footline is based on the original  $\TeX$  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[<Options>]{hackthefootline}` command loads the package<sup>1</sup>. 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.

<code>onecol</code>	The “initial footline hack” produces a one-column footline
<code>twocols</code>	The “initial footline hack” produces a two-column footline
<code>threecols</code>	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.

<code>countappendix-frames</code>	If the <code>countappendixframes</code> option is passed to the package, appendix frames are counted into the total number of frames. <i>Removes following dependencies:</i> <code>appendixnumberbeamer</code> , <code>etoolbox</code>
<code>nofun</code>	Doesn't support frame numbers being shown as “percent of presentation” <i>Removes following dependencies:</i> <code>calc</code> , <code>numprint</code>

## 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:

<code>\htfconfig</code>	Use <code>\htfconfig{key1=value1, key2=value2, ...}</code> to modify the current configuration of the footline. Changes apply instantly. See section 5.2 for examples.
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All available keys and values are listed below being depicted as follows:

key	<b><i>possible values</i></b> . . . . .
	Description of the values' effects

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<sup>1</sup>To do so, the package has to be installed in a location where  $\TeX$  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 columns 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.

`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.

date	<b><i>short, long, none</i></b> . . . . .
	The date displayed in the footline:
	<b>short</b> Show the short date
	<b>long</b> Show the long date
	<b>none</b> Do not show any date
framenrs	<b><i>counter, fraction, percent, none</i></b> . . . . .
	Controls the type of frame number shown in the footline:
	<b>counter</b> Only show the number of the current frame
	<b>fraction</b> Show the number of the current frame as well as the total number of frames
	<b>percent</b> Display the current progress of the presentation displayed as a percent value When setting this value, make sure that you didn't pass the <code>nofun</code> option when loading the package, otherwise an error message will be thrown.
	<b>none</b> Do not show frame numbers
atsep	<b><i>colon, comma, space</i></b> . . . . .
	Sets the character used to separate author and title when using the <code>onecol</code> footline:
	<b>colon</b> Use a colon as separator
	<b>comma</b> Use a comma as separator
	<b>space</b> 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
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## 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
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**Example 2:** `\usepackage[twocol]{hackthefootline}`

*Effect:* A two-column footline

Short author	Short title
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**Example 3:** `\usepackage[threecol]{hackthefootline}`

*Effect:* A three-column footline

Short author (Short institute)	Short title	Short date	1 / 1
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**Example 4:** `\usepackage{hackthefootline}`

*Effect:* The footline gets removed

### 5.2 Switching templates

This section assumes, that the `\usepackage[onecol]{hackthefootline}` command was used to load the `appendixnumberbeamer` 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 from 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 institute in parentheses

*Command:* \htfconfig{authinst=instpths}

*Effect:*

2018/01/15	S. Friedl (Some Institute)	Short Introduction	1 / 1
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**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 crowded 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 hackthefootline's facilities			
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**Step 7:** Remove the footline

*Command:* \htfconfig{cols=none}

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