Package `xltabular`

–

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Contents

1 Introduction

The package `ltablex` supports an environment `tabularx` with the possiblity of pagebreaks and the same header/footer definitions as in the package `longtable`. But the old bevaviour of the `tabularx` environment is no more possible.

The package `xltabular` defines an environment of the same name which behaves like a `tabularx` as a `longtable`. In short: it is a `longtable` with the column specifier X. But it leaves the `tabularx` environment with its original behaviour.

The syntax of the environment is similiar to the one of `tabularx`:

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```
\begin{xltabular}[hPos]{width}{ l X ...}
\caption{...\label{...}}\\
tabular body
\end{xltabular}
```

For the optional argument hPos (horizontal position) the values l, r and c (default) are possible. The environment xltabular uses longtable for typesetting the tabular. The original longtable increases the counter table in any case, with or without a caption. This is not the case with xltabular: no \caption, no counter change.

2 Examples

List of Tables

2.1 The standard tabularx environment

```
\captionaboveof{table}{Using the original \texttt{tabularx} environment:
   a pagebreak not possible! This is the reason why the tabular moves
   to the next page.}
\begin{tabularx}{0.75\linewidth}{@{} lX @{}}
left column & \blindtext\\
l           & \blindtext\\
left column & \blindtext\\
l           & \blindtext\\
\end{tabularx}
```

Table 1: Using the original `tabularx` environment: a pagebreak not possible! This is the reason why the tabular moves to the next page.

left column	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.
l	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.
left column	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.
l	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.2 The new environment `xltabular`

For the demonstration we use a tabular with only one X column. There is no difference to an example with more or other column specifiers. However, there should be at least one X column specifier; it makes no real sense otherwise.

```
\begin{xltabular}{\linewidth}{@{} X @{}}
\caption{the \texttt{xltabular} environment with \texttt{longtable}
        property}\\[\belowcaptionskip]
\BB\\
Now a manuel \cs{pagebreak} is used and on the
following page an automatic pagebreak is done by \texttt{longtable}.\\

\pagebreak

\BBB
\end{xltabular}
```

Table 2: the `xltabular` environment with `longtable` property

Some nonsense text which fills at least one line of a tabular called nonsense tabular with text.
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Now a manuel \pagebreak is used and on the following page an automatik pagebreak is done by `longtable`.

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The command \BBB does nothing else then printing a lot of lines with nonsense.

```
\begin{xltabular}[l]{0.75\linewidth}{@{} lX @{}}
\caption{The \textttt{xltabular} environment with \textttt{longtable} property
        and left aligned by setting the optional argument.}\\[\belowcaptionskip]\hline
Left column & At first a line with some nonsense text to show how long this line is.
            The caption has the same width as the text.\\
left column & \blindtext\\
left column & \blindtext\\
left column & \blindtext\\
left column & \blindtext\\\hline
\end{xltabular}
```

Table 3: The `xltabular` environment with `longtable` property and left aligned by setting the optional argument.

Left column	At first a line with some nonsense text to show how long this line is. The caption has the same width as the text.
left column	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

left column	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.
left column	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.
left column	Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.3 `tabularx` without a caption

Here comes another `tabularx` but without a caption. It should *not* increase the `table` counter. The following tabular in the last section should have the correct number!

.ext	Beschreibung
aux	(auxiliary) Hilfsdatei, enthält Querverweise usw.
bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
bib	(bibtex) enthält die Literaturdaten
blg	(bibliography log) enthält die Ausgaben eines BibTeX-Laufs
cfg	(config) Konfigurationsdatei
clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen

Examples

2.4 `xltabular` with the star version of caption

Here comes another `xltabular` with `\caption*`. It should *not* increase the `table` counter. The following tabular in the next section should have the correct number!

A caption as star version: no number no entry in the List of Tables

.ext	Beschreibung
aux	(auxiliary) Hilfsdatei, enthält Querverweise usw.
bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
bib	(bibtex) enthält die Literaturdaten
blg	(bibliography log) enthält die Ausgaben eines BibTEX-Laufs
cfg	(config) Konfigurationsdatei
clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen

2.5 `xltabular` with header/footer definitions

```
\begin{xltabular}{\linewidth}{@{} >{\ttfamily}l >{\RaggedRight}X @{}}
\caption{File endings (only for a demonstration \ldots)}\\\hline
.ext & Beschreibung\\\hline
\endfirsthead
\multicolumn{2}{@{}l}{\ldots\ \small Fortsetzung}\\\hline
.ext & Beschreibung\\\hline
\endhead
\hline
\multicolumn{2}{r@{}}{\small Fortsetzung\ldots}\\
\endfoot
\hline
\endlastfoot
aux &  (auxiliary) Hilfsdatei, enthält Querverweise usw. \\
bbl &  (bibliography) Hilfsdatei, enthält die Einträge für die Literatur\\
bib &  (bibtex) enthält die Literaturdaten\\
blg &  (bibliography log) enthält die Ausgaben eines Bib\TeX--Laufs\\
cfg &  (config) Konfigurationsdatei\\
clo &  (class options) Definitionen für die Dokumentenklasse und die entsprechenden
[...]
Klassen-Optionen\\
\end{xltabular}
```

Table 5: File endings (only for a demonstration ...)

.ext	Beschreibung
aux	(auxiliary) Hilfsdatei, enthält Querverweise usw.
bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
bib	(bibtex) enthält die Literaturdaten

Fortsetzung...

8

... Fortsetzung

.ext	Beschreibung
blg	(bibliography log) enthält die Ausgaben eines BibTEX-Laufs
cfg	(config) Konfigurationsdatei
clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen
aux	(auxiliary) Hilfsdatei, enthält Querverweise usw.
bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
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bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
bib	(bibtex) enthält die Literaturdaten
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3 Pagebreaks

xltabular is based on longtable which itself has sometimes a problem with the pagebreak. It may be possible, that you'll get a break between a section header and the following longtable/xltabular. Here is an example with xltabular:

4 Title above the tabular

Table 6: File endings (only for a demonstration ...)

.ext	Beschreibung
aux	(auxiliary) Hilfsdatei, enthält Querverweise usw.
bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
bib	(bibtex) enthält die Literaturdaten
blg	(bibliography log) enthält die Ausgaben eines BibTEX-Laufs
cfg	(config) Konfigurationsdatei

Fortsetzung...

... Fortsetzung

.ext	Beschreibung
clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen
aux	(auxiliary) Hilfsdatei, enthält Querverweise usw.
bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
bib	(bibtex) enthält die Literaturdaten
blg	(bibliography log) enthält die Ausgaben eines BibTEX-Laufs
cfg	(config) Konfigurationsdatei
clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen
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bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
bib	(bibtex) enthält die Literaturdaten
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cfg	(config) Konfigurationsdatei
clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen

Package `xltabular` defines two macros which can be used to modify the behaviour of `longtable`/`xltabular` for pagebreaks.

```
\newcommand*\normalLTpagebreak{...}
\newcommand*\specialLTpagebreak{...}
```

With `\specialLTpagebreak` one can get another beaviour which prevents such unwanted pagebreak. With `\normalLTpagebreak` you can set it back to the default behaviour. Here comes an example with the special behaviour by using `\specialLTpagebreak`:

5 Title above the tabular

Table 7: File endings (only for a demonstration ...)

.ext	Beschreibung
aux	(auxiliary) Hilfsdatei, enthält Querverweise usw.
bbl	(bibliography) Hilfsdatei, enthält die Einträge für die Literatur
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clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen

Fortsetzung...

... Fortsetzung

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cfg	(config) Konfigurationsdatei
clo	(class options) Definitionen für die Dokumentenklasse und die entsprechenden Klassen-Optionen

References

[1] David Carlisle: The `longtable` package, version 4.11, 2014, `CTAN:/macros/latex/required/tools/longtable.pdf`.

[2] — The `tabularx` package, version 2.11, 2016, `CTAN:/macros/latex/contrib/carlisle/`.

[3] Anil Goel: The `ltablex` package, version 1.1, 2014, `CTAN:/macros/latex/contrib/ltablex/`.