

The beamerappendixnote package

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Beamer appendix note introduces the `\appxnote` command, which puts the note's content on a separate beamer frame, shown by the command `\printappxnotes`. It also creates interactive buttons to move back and forth between the two frames.

```
\documentclass[20pt]{beamer}
\usepackage{beamerappendixnote}
\begin{document}
\begin{frame}{Main title}
  Main content \vfill
  \appxnote{Note title}{Note content}
\end{frame}
\printappxnotes
\end{document}
```

Main title

Main content

• Note title

Note title

• Back

Note content

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1 Installation

The beamerappendixnote package is available on [CTAN](https://ctan.org/pkg/beamerappendixnote)¹. The easiest way to install it is through a package manager. For help, see the [MiKTeX](https://miktex.org/howto/miktex-console)² or [TeX Live](https://www.tug.org/texlive/doc/texlive-en/texlive-en.html#x1-430005)³ manual. To build beamerappendixnote from the source code, follow the instructions in the README.md file.

2 Usage

<u><code>\appxnote</code></u>	<code>\appxnote[<i><frameoptions></i>]{<i><title></i>}{<i><content></i>}</code>
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Create a new appendix note. Inserts a `\beamergotobutton` to a frame that contains `<content>`. The appendix frame is created using `\printappxnotes`. The button's text and the title of the appendix frame are both set to `<title>`. If you specify `<frameoptions>`, these will be used when creating the beamer frame.

<u><code>\printappxnotes</code></u>	<code>\printappxnotes</code>
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Prints appendix notes in the order they are created using `\appxnote`. Has to be used after the last appendix note. Uses one frame per note. Inserts a `\beamerreturnbutton` to the frame where `\appxnote` was called, followed by the content, separated by a `\vfill`.

3 Implementation

3.1 Dependencies

Load the essential support (expl3).

```
1 \RequirePackage{expl3}
   Make sure that the version of l3kernel in use is sufficiently new.
2 \@ifpackagelater {expl3}{2018/04/22} {} {%
3   \PackageError {beamerappendixnote} {Support package expl3 too old}
4     {%
5       You need to update your installation of the bundles 'l3kernel' and
6       'l3packages'.\MessageBreak
7       Loading~beamerappendixnote~will~abort!%
8     }%
9   \endinput
10 }%
   Identify the package and give the over all version information
11 \ProvidesExplPackage {beamerappendixnote} {2020/05/07} {1.0}
12 {Create notes in appendix frames}
   User level interfaces are all created by xparse
13 \RequirePackage {xparse}
```

¹<https://ctan.org/pkg/beamerappendixnote>

²<https://miktex.org/howto/miktex-console>

³<https://www.tug.org/texlive/doc/texlive-en/texlive-en.html#x1-430005>

3.2 Data structures

Initialise sequences used to store notes

```

14 \seq_new:N \g_ban_titles
15 \seq_new:N \g_ban_content
16 \seq_new:N \g_ban_options

```

3.3 Macros

\appxnote Create a new appendix note (store values) and insert a button Note: using \newcommand because \NewDocumentCommand does not support multiple paragraphs

```

17 \newcommand{\appxnote}[3][t]{
18   \seq_gput_right:Nn \g_ban_titles {#2}
19   \seq_gput_right:Nn \g_ban_options {#1}
20   \seq_gput_right:Nn \g_ban_content {#3}
21   \hyperlink{ban-\seq_count:N \g_ban_titles}{\beamergotobutton{#2}}%
22   \label{ban-back-\seq_count:N \g_ban_titles}
23 }

```

(End definition for \appxnote. This function is documented on page 2.)

\@@_print_func:n Print an appendix note Args: title, content, label, back label, options

```

24 \cs_set:Npn \print_func:nnnnn #1 #2 #3 #4 #5 {
25   \def\options{#5}
26   \begin{frame}[\expandafter\options]{#1}\label{#3}
27     \hyperlink{#4}{\beamerreturnbutton{Back}}
28     \vfill
29     #2
30   \end{frame}
31 }
32 % Get title, content, label, back label and options
33 % Arg: id
34 % \begin{macrocode}
35 \cs_set:Npn \expand_func:n #1 {
36   \print_func:nnnnn {\seq_item:Nn \g_ban_titles {#1}}
37                     {\seq_item:Nn \g_ban_content {#1}}
38                     {ban-#1}
39                     {ban-back-#1}
40                     {\seq_item:Nn \g_ban_options {#1}}
41 }

```

(End definition for \@@_print_func:n. This function is documented on page ??.)

\printappxnotes Print all appendix notes

```

42 \NewDocumentCommand{\printappxnotes}{}{
43   \int_step_function:nN {\seq_count:N \g_ban_titles} \expand_func:n
44 }

```

(End definition for \printappxnotes. This function is documented on page 2.)