autopuncitems

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2022–04–16

1 Introduction

This package provides environments \texttt{AutoPunctItemize}, \texttt{AutoPunctItemizeO}, and \texttt{AutoPunctItemizeE} (beta) to automatically punctuate the items. By default, it adds the \texttt{autopunc (0|E)} options in the \texttt{enumitem} environments \texttt{itemize}, \texttt{enumerate}, and \texttt{description}, to wrap the contents in these environments. If you want to skip this (say if you were using the beamer class which may be interfered with by enum item), pass the \texttt{noenumitem} option to this package. You can still use the environments with beamer, though. It uses lua pattern matching to modify the environment’s contents.

2 Some commands

\texttt{\APomit} Used in an \texttt{item} to signify that that item should not be automatically punctuated, and not be counted. Expands to nothing.

\texttt{\APpass} Used in an \texttt{item} to signify that that item should not be automatically punctuated, and but still counted. Expands to nothing.

\texttt{\setAPeach {}{}{}} Set the default, second last, and last punctuation point in that order.

\texttt{\setAPall {}} Set all punctuation points the same.

\texttt{\setAPdef {}{}{}} Set the default punctuation point. ; by default.

\texttt{\setAPseclast {}} Set the second last punctuation point. ; and by default.

\texttt{\setAPlast {}} Set the second last punctuation point. . by default.

\texttt{\enableAPautopassnest} Automatically put an \texttt{\APpass} on items that introduce a nested list. Default behaviour.

\texttt{\disableAPautopassnest} Do not automatically put an \texttt{\APpass} on items that introduce a nested list.
3 Variants

\texttt{autopunc} Does not expand the contents of environment. Tutorial on next section shows this.
\texttt{autopuncO} Expands the contents of environment once. Useful if \texttt{item 's} are in a command
\texttt{autopuncE} Fully expands the contents of environment first. This is in-progress and should not be used.

4 Tutorial

4.1 Basic Use

\begin{verbatim}
\begin{itemize}[autopunc]
\item one;
\item two;
\item three; and
\item four.
\end{itemize}
\end{verbatim}

4.2 Demonstrating Pass

\begin{verbatim}
\begin{itemize}[autopunc]
\item one;
\item two;
\item three
\item four.
\end{itemize}
\end{verbatim}

\begin{verbatim}
\begin{itemize}[autopunc]
\item one;
\item two;
\item three
\item four
\end{itemize}
\end{verbatim}

4.3 Demonstrating Omit

\begin{verbatim}
\begin{itemize}[autopunc]
\item one;
\item two; and
\item three
\item four.
\end{itemize}
\end{verbatim}
4.4 Nested

You must use \texttt{autopunc} on each nested list if you want that sub-list to be automatically punctuated. Note that by default, the item introducing (before) a sub-list will not be automatically punctuated.

\begin{itemize}
\item one; and
\item two; and
\item three
\item four
\end{itemize}

4.4.1 If you forget to use \texttt{APpass}

If you disable auto-pass nested lists, and don’t use \texttt{APpass}, here is what happens. Notice the extra “; and” below hello world and beta.

\begin{verbatim}
\begin{itemize}[autopunc]
\item one
\item two
\item three:
\begin{enumerate}[autopunc]
\item alpha:
\begin{description}[autopunc]
\item hello world
\end{description}
\item beta;
\item delta.
\end{enumerate}
\item four
\end{itemize}
\end{verbatim}

\begin{verbatim}
\begin{itemize}[autopunc]
\item one;
\item two;
\item three:
\begin{enumerate}[autopunc]
\item alpha:
\begin{description}[autopunc]
\item hello world.
\end{description}
\item beta;
\item delta.
\end{enumerate}
\item four.
\end{itemize}
\end{verbatim}
4.5 Expanding list contents

- will work fine (expand once)
  - one;
  - two;
  - three;
    1. alpha
       hello world.
    2. beta
       - four.
- will throw error (author to fix this)
- does not give desired result (no items found)
  - one
  - two
  - three
  - four

4.6 Using the environment

The normal way to use the environment should be inside the first list, like so.
\enableAPautopassnest \% default settn
\begin{itemize}
\begin{AutoPuncItems}
\item one;
\item two;
\item three; and
\item four.
\end{AutoPuncItems}
\end{itemize}

You may want to use the \texttt{AutoPuncItems} environment outside a list environment instead, say perhaps if you’re using the \texttt{beamer}. Note that nested lists are normally not punctuated, and since the first-level list is inside the environment, it’s considered nested. If you would like to disable the prevention of auto-punctuating all nested lists, use the \disableAPprotectnest. Note that nested lists will cause an error to occur.

\disableAPprotectnest
\begin{AutoPuncItems}
\begin{itemize}
\item one;
\item two;
\item three; and
\item four
\end{itemize}
\end{AutoPuncItems}