1 Introduction

This package provides environments `AutoPuncItemize`, `AutoPuncItemizeO`, and `AutoPuncItemizeE` (beta) to automatically punctuate the items. By default, it adds the `autopunc (O|E)` options in the `enumitem` environments `itemize`, `enumerate`, and `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 `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{\setAPsecclast {}{}} 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

*autopunc* Does not expand the contents of environment. Tutorial on next section shows this.

*autopuncO* Expands the contents of environment once. Useful if *\item* ’s are in a command

*autopuncE* Fully expands the contents of environment first. This is in-progress and should not be used.

4 Tutorial

4.1 Basic Use

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

4.2 Demonstrating Pass

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

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

4.3 Demonstrating Omit

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

\begin{itemize}[autopunc]
\item one;
\item two;
\item three
\item four
\end{itemize}
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}[autopunc]
  \item one;
  \item two;
  \item three:
    \begin{enumerate}[autopunc]
      \item alpha: hello world.
      \item beta;
      \item delta.
    \end{enumerate}
  \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}
  \end{itemize}
\end{verbatim}
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 \texttt{\disableAPprotectnest}. Note that nested lists will cause an error to occur.

The normal way to use the environment should be inside the first list, like so.