

autopuncitems

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2022-01-18

TODO make an environment that can be used outside of itemize, useful for beamer possibly

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

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

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

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

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

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

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

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

<code>\enableAPautopassnest</code>	Automatically put an <code>\APpass</code> on items that introduce a nested list. Default behaviour.
<code>\disableAPautopassnest</code>	Do not automatically put an <code>\APpass</code> on items that introduce a nested list.

3 Variants

<code>autopunc</code>	Does not expand the contents of environment. Tutorial on next section shows this.
<code>autopunc0</code>	Expands the contents of environment once. Useful if <code>\item</code> 's are in a command
<code>autopuncE</code>	Fully expands the contents of environment first. This is in-progress and should not be used.

4 Tutorial

4.1 Basic Use

1 <code>\begin{itemize}[autopunc]</code>	
2 <code>\item one</code>	• one;
3 <code>\item two</code>	• two;
4 <code>\item three</code>	• three; and
5 <code>\item four</code>	• four.
6 <code>\end{itemize}</code>	

4.2 Demonstrating Pass

1 <code>\begin{itemize}[autopunc]</code>	
2 <code>\item one</code>	• one;
3 <code>\item two</code>	• two;
4 <code>\item three \APpass</code>	• three
5 <code>\item four</code>	• four.
6 <code>\end{itemize}</code>	

1 <code>\begin{itemize}[autopunc]</code>	
2 <code>\item one</code>	• one;
3 <code>\item two</code>	• two;
4 <code>\item three \APpass</code>	• three
5 <code>\item four \APpass</code>	• four
6 <code>\end{itemize}</code>	

4.3 Demonstrating Omit

1	<code>\begin{itemize}[autopunc]</code>	
2	<code>\item one</code>	• one;
3	<code>\item two</code>	• two; and
4	<code>\item three \APomit</code>	• three
5	<code>\item four</code>	• four.
6	<code>\end{itemize}</code>	
1	<code>\begin{itemize}[autopunc]</code>	
2	<code>\item one</code>	• one; and
3	<code>\item two</code>	• two.
4	<code>\item three \APomit</code>	• three
5	<code>\item four \APomit</code>	• four
6	<code>\end{itemize}</code>	

4.4 Nested

You must use `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.

1	<code>\begin{itemize}[autopunc]</code>	
2	<code>\item one</code>	
3	<code>\item two</code>	• one;
4	<code>\item three:</code>	• two;
5	<code>\begin{enumerate}[autopunc]</code>	• three:
6	<code>\item alpha:</code>	1. alpha:
7	<code>\begin{description}[autopunc]</code>	hello world.
8	<code>\item[hello] world</code>	2. beta; and
9	<code>\end{description}</code>	3. delta.
10	<code>\item beta</code>	• four.
11	<code>\item delta</code>	
12	<code>\end{enumerate}</code>	
13	<code>\item four</code>	
14	<code>\end{itemize}</code>	

4.4.1 If you forget to use `APpass`

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

```

1 \disableAPautopassnest
2 \begin{itemize}[autopunc]
3   \item one
4   \item two
5   \item three
6   \begin{enumerate}[autopunc]
7     \item alpha
8     \begin{description}[autopunc]
9       \item[hello] world
10    \end{description}
11    \item beta
12  \end{enumerate}
13  \item four
14 \end{itemize}

```

- one;
- two;
- three
 1. alpha
 - hello** world.
 - ; and
 2. beta.
- ; and
- four.

```

1 \enableAPautopassnest
2 \begin{itemize}[autopunc]
3   \item one
4   \item two
5   \item three
6   \begin{enumerate}
7     \item alpha
8     \begin{description}[autopunc]
9       \item[hello] world
10    \end{description}
11    \item beta
12  \end{enumerate}
13  \item four
14 \end{itemize}

```

- one;
- two;
- three
 1. alpha
 - hello** world.
 2. beta
- four.