

The noindentafter package*

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Development of this package is organized at [latex-noindentafter.googlecode.com](https://github.com/mhelvens/noindentafter).
I am happy to receive feedback there!

1 Introduction

Some people prefer certain LaTeX environments —such as `itemize` or `theorem`— never to be followed by an indented paragraph. It is of course possible to manually add the `\noindent` command to each occurrence, but it's easy to forget to do this. Also, all those `\noindent` commands leave your TeX code just a little bit more chaotic and more burdensome to read.

There are a number of solutions floating around, but many of them are not particularly robust, or only work in specific cases.

The `noindentafter` package provides a few simple commands which can be used to patch existing macros and environments. They work as expected in all cases I've encountered.

2 Usage

`\NoIndentAfterThis` This is the most primitive macro offered by the package. It forces a paragraph break and suppresses indentation for whatever follows:

```
 Lorem ipsum dolor sit amet, consectetur adipiscing
 elit. \NoIndentAfterThis Pellentesque hendrerit volutpat
 feugiat. Ut purus leo, pulvinar sit amet vehicula non,
 pulvinar eu lacus. Curabitur id mollis ligula.
```

```
 Lorem ipsum dolor sit amet, consectetur adipiscing elit.
 Pellentesque hendrerit volutpat feugiat. Ut purus leo, pulvinar sit amet vehic-
  ulla non, pulvinar eu lacus. Curabitur id mollis ligula.
```

*This document corresponds to `noindentafter` 0.0.1, dated 2013/08/02.

`\NoIndentAfterEnv` {*environment*}

This is probably the command most people will want to use. The *environment* argument should contain an environment name. After using this command, any paragraph following such an environment will remain unindented.

```
 Lorem ipsum dolor sit amet, consectetur adipiscing elit.
```

```
 \begin{itemize}
   \item First Item
   \item Second Item
 \end{itemize}
```

```
 Pellentesque hendrerit volutpat feugiat. Ut purus
 leo, pulvinar sit amet vehicula non, pulvinar eu
 lacus. Curabitur id mollis ligula.
```

```
 \NoIndentAfterEnv{itemize}
```

```
 Vestibulum id erat venenatis, facilisis enim non,
 consectetur felis. Quisque iaculis eu arcu non pretium.
```

```
 \begin{itemize}
   \item Third Item
   \item Fourth Item
 \end{itemize}
```

```
 Curabitur est elit, posuere pulvinar laoreet sed, varius
 id mi. Nam lobortis elit nec mauris condimentum gravida.
```

```
 Lorem ipsum dolor sit amet, consectetur adipiscing elit.
```

- First Item
- Second Item

```
 Pellentesque hendrerit volutpat feugiat. Ut purus leo, pulvinar sit amet
 vehicula non, pulvinar eu lacus. Curabitur id mollis ligula.
```

```
 Vestibulum id erat venenatis, facilisis enim non, consectetur felis. Quisque
 iaculis eu arcu non pretium.
```

- Third Item
- Fourth Item

```
 Curabitur est elit, posuere pulvinar laoreet sed, varius id mi. Nam lobortis elit
 nec mauris condimentum gravida.
```

You'll probably want to use these commands in the document preamble but, as you can see, you don't really have to.

Note that using the `\NoIndentAfterEnv` command on your own environment is not the same as adding `\NoIndentAfterThis` to the end of it:

```
\newenvironment{test}{\itshape}{\NoIndentAfterThis}
```

```
\begin{test}
```

```
  Lorem ipsum dolor sit amet, consectetur  
  adipiscing elit.
```

```
\end{test}
```

```
Pellentesque hendrerit volutpat feugiat. Ut purus  
leo, pulvinar sit amet vehicula non, pulvinar eu  
lacus. Curabitur id mollis ligula.
```

```
Lorem ipsum dolor sit amet, consectetur adipiscing elit.
```

```
  Pellentesque hendrerit volutpat feugiat. Ut purus leo, pulvinar sit amet  
vehicula non, pulvinar eu lacus. Curabitur id mollis ligula.
```

`\NoIndentAfterEnv` works because it bypasses the group that surrounds every \LaTeX environment (and localizes declarations).

```
\NoIndentAfterCmd {<command>}
```

Finally, you may also patch command sequences using the `\NoIndentAfterCmd` command. There may not be many situations where this is useful, but for me, there is at least one:

```
  Lorem ipsum dolor sit amet, consectetur adipiscing elit:
```

```
  \[ 1 + 1 = 2 \]
```

```
  Pellentesque hendrerit volutpat feugiat. Ut purus leo:
```

```
  \NoIndentAfterCmd \]
```

```
  \[ 2 + 2 = 4 \]
```

```
  Vestibulum id erat venenatis, facilisis enim non,  
  consectetur felis.
```

```
  Lorem ipsum dolor sit amet, consectetur adipiscing elit:
```

```
          1 + 1 = 2
```

```
  Pellentesque hendrerit volutpat feugiat. Ut purus leo:
```

```
          2 + 2 = 4
```

```
  Vestibulum id erat venenatis, facilisis enim non, consectetur felis.
```

Note that braces around the `<command>` argument are optional, as always when an argument in \TeX consists of only a single token.

3 Acknowledgements

I had been looking for a solution like this for quite a while. I came up with a number of hacks that worked in some situations but not in others. Eventually I asked a question on <http://tex.stackexchange.com>:

- <http://tex.stackexchange.com/questions/112404>

I received two excellent answers – one from cgnieder and one from lockstep. This package is based on the technique proposed by cgnieder, as it is simpler and more generally applicable. Still, the answer by lockstep is definitely worth a read.

4 Implementation

We now show and explain the entire implementation from `noindentafter.sty`.

4.1 Package Info

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{noindentafter}[2013/08/02 0.0.1
3   prevent paragraph indentation after specific environments or macros]
```

4.2 Packages

We only need `etoolbox`. The definitions below can probably be rewritten not to need it, but for me it has not been worth the effort.

```
4 \RequirePackage{etoolbox}
```

4.3 Macros

`\NoIndentAfterThis` Enforce a paragraph break and suppress indentation for whatever follows.

```
5 \newrobustcmd*{\NoIndentAfterThis}{%
6   \par%
7   \@afterindentfalse%
8   \@afterheading%
9 }
```

`\NoIndentAfterEnv` $\{\langle environment \rangle\}$

Append `\NoIndentAfterThis` to the output of $\langle environment \rangle$.

```
10 \newrobustcmd*{\NoIndentAfterEnv}[1]{%
11   \AfterEndEnvironment{#1}{\NoIndentAfterThis}%
12 }
```

`\NoIndentAfterCmd` $\{\langle command \rangle\}$

Append `\NoIndentAfterThis` to the output of $\langle command \rangle$.

```
13 \newrobustcmd*{\NoIndentAfterCmd}[1]{%  
14   \apptocmd{#1}{\NoIndentAfterThis}{-}{-}%  
15 }
```

Change History

0.0.1
 General: initial version 1

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols		N		P	
<code>\@afterheading</code>	8	<code>\NeedsTeXFormat</code>	1	<code>\par</code>	6
<code>\@afterindentfalse</code>	7	<code>\newrobustcmd</code>	5, 10, 13	<code>\ProvidesPackage</code>	2
A		<code>\NoIndentAfterCmd</code>	<u>13</u>		
<code>\AfterEndEnvironment</code>	11	<code>\NoIndentAfterEnv</code>	<u>10</u>		
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				<code>\RequirePackage</code>	4