

The package **noindentafter**

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v1.00 (2021-05-14)

For certain environments—such as `itemize` or `theorem`—as well as specific commands, indentation of the following paragraph is not desired. It is of course possible to manually add `\noindent` to each occurrence, but it is very easy to forget this at one point or another. This package provides a few simple commands which can be used to patch existing macros and environments in order to get rid of manually using `\noindent` after these. Therefore, both packages **etoolbox** and **xpatch** are required.

Usage

The package does not provide additional options and is used in the simplest way possible:

```
\usepackage{noindentafter}
```

In order to ensure a consistent layout throughout the document, it is recommended—but not mandatory—to use the commands described below within the preamble after loading package **noindentafter**.

`\NoIndentAfterEnv` `\NoIndentAfterEnv{environment}`

This is probably the most frequently needed functionality. After using this command, any paragraph following such an `{environment}` will remain unindented. The example below shows the default output without the involvement of **noindentafter**.

```
 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

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

 Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem.
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

- First Item
- Second Item

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem.

Once `\NoIndentAfterEnv{itemize}` has been executed, the output differs by the *unintended* paragraph directly after the `itemize` environment:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

- First Item
- Second Item

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem.

Note that using the `\NoIndentAfterEnv` command on an environment is not the same as adding `\NoIndentAfterThis` to the end of it:¹

```
\newenvironment{mytestenv}{\itshape}{\NoIndentAfterThis}
\begin{mytestenv}
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit,
vestibulum ut, placerat ac, adipiscing vitae, felis.
\end{mytestenv}

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur
id, vulputate a, magna. Donec vehicula augue eu neque.
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

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

By using `\NoIndentAfterCmd`, macros can be modified. There probably may not be many situations where this is useful, but perhaps this one:

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

\[ 1 + 1 = 2 \]

Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur
dictum gravida mauris:

\NoIndentAfterCmd{\]

\[ 2 + 2 = 4 \]

Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec
vehicula augue eu neque.
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit:

$$1 + 1 = 2$$

Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris:

$$2 + 2 = 4$$

Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

¹`\NoIndentAfterEnv` bypasses the group that surrounds environments

`\NoIndentAfterThis` Finally, 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. Ut purus elit,
 vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida
 mauris. \NoIndentAfterThis Nam arcu libero, nonummy eget, consectetur id,
 vulputate a, magna. Donec vehicula augue eu neque.
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

Acknowledgements

This package resulted from <http://tex.stackexchange.com/q/112404> and the excellent responses to it by CGNIEDER and LOCKSTEP. Although it initially based on the proposed solution by CGNIEDER—as it was simpler and more generally applicable—the answer by LOCKSTEP is definitely worth reading.

Implementation

The only required packages are **etoolbox** as well as **xpatch**.

```
 1 \RequirePackage{etoolbox}
 2 \RequirePackage{xpatch}
```

`\nia@scan` This command implements the main principle behind this package. It checks whether it is followed by a paragraph. If so, the command `\par` is temporarily changed using `\everypar`, so that the following paragraph is not indented. Immediately afterwards, default paragraph behavior is restored with `\@restorepar` (from the L^AT_EX 2_ε kernel).

```
 3 \newcommand*\nia@scan{%
 4   \kernel@ifnextchar\par{%
 5     \par%
 6     \def\par{%
 7       \everypar{\setbox\z@\lastbox\everypar{}}}%
 8     \@restorepar%
 9   }%
10 }{%
11 }
```

`\nia@afterendenv` This command is used for hooking into the ending routine of an environment at the latest possible point after `\ignorespaces`. It is heavily inspired by David Carlisle² and uses a delimited argument in order to apply `\nia@scan` last.

It is invoked via hook `\AfterEndEnvironment` provided by **etoolbox** and leaves everything between its invocation and `\ignorespaces\fi` at the very end of `\end` unchanged—even additional material given through the same hook—and finally executes `\nia@scan`.

```
12 \newcommand*\nia@afterendenv{}
13 \def\nia@afterendenv#1\ignorespaces\fi{#1\ignorespaces\fi\nia@scan}
```

`\NoIndentAfterThis` `\NoIndentAfterCmd` `\NoIndentAfterEnv` These are finally the user-level commands to activate the functionality of **noindentafter** for the given `{\langle environment \rangle}`/`{\langle macro \rangle}` as well as immediate execution.

```
14 \newrobustcmd*\NoIndentAfterThis{\nia@scan\par}
15 \newcommand*\NoIndentAfterCmd[1]{%
16   \xapptocmd#1{\NoIndentAfterThis}{-}{%
17     \PackageWarning{noindentafter}{%
18       Patching ‘\string#1’ failed!MessageBreak%
19       ‘\string\NoIndentAfterCmd{\string#1}’ won’t work%
20     }%
21   }%
22 }
23 \newcommand*\NoIndentAfterEnv[1]{\AfterEndEnvironment{#1}{\nia@afterendenv}}
```

²<https://tex.stackexchange.com/a/179034/38481>

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

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Change History

v0.0.1	v0.2.2
General	General
initial version by Michiel Helvensteijn . .	fixed version number in the README . .
1	1
v0.2.0	v1.00
General	General
new implementation, fixing a spacing	new maintainer: Falk Hanisch
issue	fix for L ^A T _E X 2 _ε 2019-10-01 and later . . .
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