

The **dashundergaps** package

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1 Introduction

This package *helps you to* use (a) pattern(s) from this list:

1. dashing;
2. dotting;
3. underlining

for a word which can be either

1. hidden;
2. or not.

This can be *useful in* these situations:

1. You are writing a document for which you need to dash or (and) to dot text,
2. You want to write a test for which students have to “fill in the gaps,” and you want to chose when to print the answers.

2 Use

2.1 Loading the Package

To load *the package*, please use

```
\usepackage[options]{dashundergaps}
```

2.2 Available Options

Without any option, the package will not be really useful, as it will not perform anything that will be nice for you. Consequently, the *following options are available*:

- **dash**: will dash `text` if used with the command

```
\dashuline{text}
```

where you want “text” to be dashed (*i.e.* somewhere in the `document` environment)

- **dot**: will dot `text` if used with the command

```
\dotuline{text}
```

where you want “text” to be dotted (*i.e.* somewhere in the `document` environment),

- **phantomtext**: will help you to write a pattern at the place of the text. This pattern can be
 - dashing, if used with `dash` option;
 - dotting, if used with `dot` option;
 - underlining, if used with (`dash` and `dot`) options *or* with neither `dash` nor `dot`;
 - the text in itself, if used with `teachernotes` option.
- **teachernotes**: see the last point of `phantomtext`,
- **displaynbgaps**: will produce, at the end of your document (and in the center of the page), a summary of the number of gaps like

GAPS: x .

3 Possible Combinations

All the possible sensed commands (the launching order has no importance) of `dashundergap.sty` are given at Table 1 *except* the use of `displaynbgaps`, which can trivially be used iff `phantomtext` is used. Here, “×” is equivalent to the well-known “N.A.” and thus means “Not Applicable here,” or, equivalently, “Not Available.”

Option(s)	Consequence		
	<code>\gap{text}</code>	<code>\dashuline{text}</code>	<code>\dotuline{text}</code>
dash (only)	×	<u>text</u>	×
dot (only)	×	×	<u>text</u>
dash, dot	×	<u>text</u>	<u>text</u>
phantomtext (only)	— (1)	×	×
phantomtext, dash	-- (1)	<u>text</u>	×
phantomtext, dot	... (1)	×	<u>text</u>
phantomtext, dash, dot	— (1)	<u>text</u>	<u>text</u>
phantomtext, teachernotes	text	×	×
phantomtext, dash, teachernotes	text	<u>text</u>	×
phantomtext, dot, teachernotes	text	×	<u>text</u>
phantomtext, dash, dot, teachernotes	text	<u>text</u>	<u>text</u>

Table 1: Possible sensed commands of this package except `displaynbgaps`.

4 Examples

From now on, the output of the listed codes will be put in rectangular boxes.

4.1 Dashing

Here is an *example of sentence dashing*.

```
\documentclass[10pt]{article}

\usepackage[dash]{dashundergaps}

\begin{document}
\dashuline{This is a dashed sentence}
\end{document}
```

gives

This is a dashed sentence

Dotting is done in the same way.

4.2 Gaps with Dots – Student Version

Here is an *example* of *dotted gaps* for the student version.

```
\documentclass[10pt]{article}

\usepackage[dot, phantomtext]{dashundergaps}

\begin{document}
In Computer Science, ‘PC’ means ‘Personal \gap{Computer}.’

We can still \dotuline{dot this}.
\end{document}
```

results in

In Computer Science, “PC” means “Personal”
 We can still dot this.

5 Implementation

Here is the code of `dashundergaps.sty`:

```
1 %% This is file 'dashundergaps.sty.'
2
3 \NeedsTeXFormat{LaTeX2e}
4 \ProvidesPackage{dashundergaps}[2009/11/12 Dashing and underlining (phantom) text]
5 \PackageInfo{dashundergaps}{This is DashUnderGaps by Mericiadri Luca.}
6
7 \RequirePackage{ifthen}[1994/06/01]
8 \RequirePackage{ulem}
9 \newboolean{dot} % false at start
10 \newboolean{dash} % false at start
11
12
13 \DeclareOption{dash}{%
14   \typeout{Dashing mode activated!}
15   \setboolean{dash}{true}
16   \def\dashuline{\bgroup
17     \ifdim\ULdepth=\maxdimen
18       \settodepth\ULdepth{(j)\advance\ULdepth.4pt\fi
19       \markoverwith{\kern.15em
20         \vtop{\kern\ULdepth\hrule width .3em}%
21         \kern.15em}\ULon}
22   }
23
24
25 \DeclareOption{dot}{%
26   \typeout{Dotting mode activated!}
27   \setboolean{dot}{true}
28   \def\dotuline{\bgroup
29     \ifdim\ULdepth=\maxdimen
30       \settodepth\ULdepth{(j)\advance\ULdepth.4pt\fi
31       \markoverwith{\beginngroup
32         \advance\ULdepth0.08ex
33         \lower\ULdepth\hbox{\kern.15em .\kern.1em}%
34         \endgroup}\ULon}
35   }
36
37 \DeclareOption{phantomtext}{%
38   \typeout{Phantom mode activated! All the gaps will be filled.}
39   \newboolean{teachernotes} % false at start
40   \newcounter{nb-gaps}
41   \setcounter{nb-gaps}{1}
42   \newcounter{nth-gaps}
43   \setcounter{nth-gaps}{1}
44
45   \newcommand{\gap}[1]{%
46     \ifthenelse{\boolean{teachernotes}}{
47       \textbf{#1} (\arabic{nth-gaps})
48     }{
49       \ifthenelse{\boolean{dash}}{\AND \boolean{dot}}{\underline{\phantom{#1}} (\arabic{nth-gaps})}
50       \ifthenelse{\boolean{dash}}{\dashuline{\phantom{#1}} (\arabic{nth-gaps})}
51       \ifthenelse{\boolean{dot}}{\dotuline{\phantom{#1}} (\arabic{nth-gaps})}
52       {\underline{\phantom{#1}} (\arabic{nth-gaps})}
53     }
54     \addtocounter{nb-gaps}{1}
55     \addtocounter{nth-gaps}{1}
56   }
57 }
```

```

\DeclareOption{teachernotes}{%
59 \typeout{Phantom mode deactivated! All the gaps will be filled with their content.}
\setboolean{teachernotes}{true}
61 }

63
\DeclareOption{displaynbgaps}{%
65 \typeout{Gaps counting mode activated!}
\addtocounter{nb-gaps}{-1}
67 \AtEndDocument{\vfill \centering \bfseries GAPS: \arabic{nb-gaps}.}
}
69
\ProcessOptions\relax

```

6 Limitations

This package is currently not able to cope with strange users such as the ones which would

- Like to use both `\dashuline{text}` and `\dotuline{text}` and would like `\gap{text}` to appear either as `\dotuline{}` or as `\dashuline{}`. This is not implemented as this would be a really unuseful feature: there are not many folks who want their `\gap{text}` to be filled with something else than

`\underline{}`

when already using `\dashuline` or `\dotuline` in the text!

7 Bugs

No *bugs* are currently known in this package.

8 Contact

If you have any question concerning this package (limitations, bugs, ...), please contact me at Luca.Merciadri@student.ulg.ac.be.

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9 References

References

- [1] TUG, Dashed or dotted underline, 2009. <http://ewus.de/tipp-1014.html>.