The **dashundergaps** package

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1 Introduction

This package (v1.2) 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 choose when to print the answers.

2 Use

2.1 Loading the Package

To load the package, please use

\texttt{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:

- \texttt{dash}: will dash text if used with the command

  \texttt{\dashuline{text}}

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

- \texttt{dot}: will dot text if used with the command

  \texttt{\dotuline{text}}

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

- \texttt{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

  \textbf{GAPS: }x.
3 Possible Combinations

All the possible sensed commands (the launching order has no importance) of dashundergaps.sty are given at Table 1 except the use of displaynbgaps, which can trivially be used iff phantomtext is used. Here, “x” is equivalent to the well-known “N.A.” and thus means “Not Applicable.” Notice that gaps are automatically numbered.

<table>
<thead>
<tr>
<th>Option(s)</th>
<th>gap{text}</th>
<th>dashuline{text}</th>
<th>dotuline{text}</th>
</tr>
</thead>
<tbody>
<tr>
<td>dash (only)</td>
<td>x</td>
<td>text</td>
<td>x</td>
</tr>
<tr>
<td>dot (only)</td>
<td>x</td>
<td>x</td>
<td>text</td>
</tr>
<tr>
<td>dash, dot</td>
<td>x</td>
<td>text</td>
<td>text</td>
</tr>
<tr>
<td>phantomtext (only)</td>
<td>(1)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>phantomtext, dash</td>
<td>(1)</td>
<td>text</td>
<td>x</td>
</tr>
<tr>
<td>phantomtext, dot</td>
<td>(1)</td>
<td>x</td>
<td>text</td>
</tr>
<tr>
<td>phantomtext, dash, dot</td>
<td>(1)</td>
<td>text</td>
<td>text</td>
</tr>
<tr>
<td>phantomtext, teachernotes</td>
<td>text</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>phantomtext, dash, teachernotes</td>
<td>text</td>
<td>text</td>
<td>x</td>
</tr>
<tr>
<td>phantomtext, dot, teachernotes</td>
<td>text</td>
<td>x</td>
<td>text</td>
</tr>
<tr>
<td>phantomtext, dash, dot, teachernotes</td>
<td>text</td>
<td>text</td>
<td>text</td>
</tr>
</tbody>
</table>

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

\begin{quote}
In Computer Science, “PC” means “Personal \ldots\ldots\ldots (1).”

We can still \dot this.
\end{quote}

4.3 With Tabular

To produce

\begin{tabular}{lll}
\hline
Head A & Head B & Head C \\
\multicolumn{2}{l}{\dotuline{\hfill}} \\
Col 1 & Col 2 & Col 3 \\
Col 1 & Col 2 & Col 3 \\
\hline
\end{tabular}

just use

\begin{verbatim}
\begin{tabular}{lll}
\hline
Header A & Header B & Header C\\
\multicolumn{2}{l}{\dotuline{\hfill}}\\
Col 1 & Col 2 & Col 3\\
Col 1 & Col 2 & Col 3\\
\hline
\end{tabular}
\end{verbatim}

where you want it to appear.
5 Implementation

Here is the code of `dashundergaps.sty`:

```latex
5 Implementation

Here is the code of `dashundergaps.sty`:

1 \% This is file `dashundergaps.sty` v1.2 by Merciadri Luca.
3 \% NeedsTeXFormat{LaTeX2e}
4 \% ProvidesPackage{dashundergaps}[2010/01/20 Dashing and underlining (phantom) text]
5 \% PackageInfo{dashundergaps} This is DashUnderGaps by Merciadri Luca.
7 \% RequiresPackage{ifthen}{1994/06/01}
8 \% ParseOptionsToPackage{normal}{ulem}
9 \% RequiresPackage{ulem}
10 \% newboolean{dot} \% false at start
11 \% newboolean{dash} \% false at start
13 \edef\dashundergaps@start{false}
15 \edef\dashundergaps@start{false}
17 \edef\dashundergaps@start{false}
19 \edef\dashundergaps@start{false}
21 \edef\dashundergaps@start{false}
23 \edef\dashundergaps@start{false}
25 \edef\dashundergaps@start{false}
27 \edef\dashundergaps@start{false}
29 \edef\dashundergaps@start{false}
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69 \edef\dashundergaps@start{false}
71 \edef\dashundergaps@start{false}
73 \edef\dashundergaps@start{false}
75 \edef\dashundergaps@start{false}
77 \edef\dashundergaps@start{false}

6 Limitations

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

- Like to use both \text{dashline} and \text{dotline} and would

\begin{itemize}
\item Like to use both \text{dashline} and \text{dotline} and would
\end{itemize}

\end{itemize}
like \gap{text} to appear either as \dotuline{\phantom{text}} or as \dashuline{\phantom{text}}. 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{\phantom{text}}

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

7 Remarks

7.1 Dashing and Dotting Hierarchy

7.1.1 Numbering

Some users would like to use a code like this:

\begin{verbatim}
\usepackage[dash,dot]{dashundergaps}
\usepackage[calcwidth,pagestyles,raggedright,bf,sf,...]{titlesec}
\titleformat{\section}{\normalfont\Huge\bfseries}{\dashuline{\thesection}}{1em}{}
\titleformat{\subsection}{\normalfont\LARGE\bfseries}{\dotuline{\thesubsection}}{1em}{}
\titleformat{\subsubsection}{\normalfont\Large\bfseries}{\thesubsubsection}{1em}{}
\titleformat{\paragraph}{\normalfont\large\bfseries\itshape}{\theparagraph}{1em}{}
\titleformat{\subparagraph}{\normalfont\normalsize\bfseries\itshape}{\thesubparagraph}{1em}{}
\end{verbatim}

It is possible, and will work. For example, here, sections and subsections will have their numbering respectively dashed and dotted.

7.1.2 Titles

You cannot modify

\begin{verbatim}
\usepackage[dash,dot]{dashundergaps}
\usepackage[calcwidth,pagestyles,raggedright,bf,sf,...]{titlesec}
\titleformat{\section}{\normalfont\Huge\bfseries}{\thesection}{1em}{}
\titleformat{\subsection}{\normalfont\LARGE\bfseries}{\thesubsection}{1em}{}
\titleformat{\subsubsection}{\normalfont\Large\bfseries}{\thesubsubsection}{1em}{}
\titleformat{\paragraph}{\normalfont\large\bfseries\itshape}{\theparagraph}{1em}{}
\titleformat{\subparagraph}{\normalfont\normalsize\bfseries\itshape}{\thesubparagraph}{1em}{}
\end{verbatim}

\begin{verbatim}
\section{\protect\dashuline{This is the First Section}}
\end{verbatim}

Do not forget the \protect please. It must be written because \dashuline and \dotuline were not declared as robust commands.

7.2 Ulem and the Emphasize Command

Donald Arseneau informed me in an e-mail that adding

\begin{verbatim}
\PassOptionsToPackage{normalem}{ulem}
\end{verbatim}

\begin{verbatim}
\section{\protect\dashuline{This is the First Section}}
\end{verbatim}
\RequirePackage{ulem}

would be a good idea, since \texttt{\textbackslash emph} is equivalent to \texttt{\textbackslash underline} for \texttt{ulem} when the \texttt{normalem} option is not given to it. This has been modified, and is in \texttt{v1.1}.

8 Bugs

[Chronologically ordered.]

1. (20/01/2010): Thanks to [2], the first bug has been discovered: if the argument of \texttt{\textbackslash gap} was too long, and that \texttt{teachernotes} was activated, the underlining was not done according to margins. It has now been solved. Many thanks to Donald Arseneau for this.

9 Version History

1. \texttt{v1.0}: package is introduced to the L\TeX world,
2. \texttt{v1.1}: see 7.2,
3. \texttt{v1.2}: fixed bug 1, and the commands are now defined using \texttt{\providecommand}.

10 Contact

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

11 Thanks

Thanks to many users for feedback and to Glad Deschrijver [1] for the \texttt{\dotuline} and \texttt{\dashuline} code.
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