The \texttt{dashundergaps} package

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November 12, 2009

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1 Introduction

This package \textit{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 \textit{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 \texttt{dashundergap.sty} are given at Table 1 except the use of \texttt{displaynbgaps}, which can trivially be used iff \texttt{phantomtext} is used. Here, “×” is equivalent to the well-known “N.A.” and thus means “Not Applicable here,” or, equivalently, “Not Available.”

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

Table 1: Possible sensed commands of this package except \texttt{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.

\begin{document}
\documentclass[10pt]{article}
\usepackage[dash]{dashundergaps}
\begin{document}
\dashuline{This is a dashed sentence}
\end{document}
\end{document}

gives

\begin{center}
This is a dashed sentence
\end{center}

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:

\begin{verbatim}
% This is file 'dashundergaps.sty'.
\NeedsTeXFormat{LaTeX2e}
% Provides Package (dashundergaps) [2009/11/12 Dashing and underlining (phantom) text]
\ProvidesPackage{dashundergaps}[][1994/06/01]
\RequirePackage{ifthen}
9 (newboolean{dot} % false at start
newboolean{dash} % false at start

\DeclareOption{dash}{% (Dashing mode activated!)
(setboolean{dash}{true})
\def\dashline{\hbox{}%}
17 \ifdim\ULdepth:0pt\relax
\setdepth{\ULdepth\ULdepth}}%\advance\ULdepth-0.15em
19 \markoverwith{(\kern 1.5em\vtop{\ULdepth,\ULdepth\null\kern.3em})%\\}
21 \kern 1.5em}

\DeclareOption{dot}{% (Phantom mode activated! All the gaps will be filled.)
(newboolean{teachernotes} % false at start
(newcounter{nb-gaps})% \textbf{[\arabic{nb-gaps}]}
41 (newcounter{nth-gaps})% \textbf{[\arabic{nth-gaps}]}
43 \newcommand{\gap}[1]{% % :(
47 \iff itsnotes\{\boolean{teachernotes}\}
49 (\textbf{[\arabic{nth-gaps}]})% \textbf{[\arabic{nth-gaps}]})
51 (\textbf{[\arabic{nth-gaps}]})% \textbf{[\arabic{nth-gaps}]})
53 (\addtocounter{nb-gaps}{1})% \\
55 (\addtocounter{nth-gaps}{1})% )}
57
\end{verbatim}
6 Limitations

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

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

\texttt{\textbackslash underline{\textbackslash phantom{text}}}

when already using \texttt{\textbackslash dashuline} or \texttt{\textbackslash 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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