1 Introduction

This \LaTeX package gives useful meaning to various Unicode space characters so that they fulfill their intended function when used in \LaTeX source. It uses \texttt{\textbackslash newunicodechar} macro to do it. Its source is hosted on GitHub in \texttt{wilx/project-uspace} repository.

Here is a list of the implemented characters and their implementations:

- \texttt{\hspace{0pt}}  
  \texttt{\hspace{0pt}}
- \texttt{\leavevmode\,}
  \texttt{\leavevmode\,}
- \texttt{\quad}
  \texttt{\quad}
- \texttt{\enskip}
  \texttt{\enskip}
- \texttt{\hspace{0.33333em}}
  \texttt{\hspace{0.33333em}}
- \texttt{\hspace{0.25em}}
  \texttt{\hspace{0.25em}}
- \texttt{\hspace{0.16667em}}
  \texttt{\hspace{0.16667em}}
- \texttt{\leavevmode\phantom{0}}
  \texttt{\leavevmode\phantom{0}}
- \texttt{\hspace{\fontcharwd \font \textbackslash,}}
  \texttt{\hspace{\fontcharwd \font \textbackslash,}}
- \texttt{\leavevmode\allowbreak\,}
  \texttt{\leavevmode\allowbreak\,}
- \texttt{\hspace{0.08333em}}
  \texttt{\hspace{0.08333em}}
- \texttt{\newline}
  \texttt{\newline}
2 History

This package would not be what it is without help and comments from people of \TeX, \LaTeX{} and Friends StackExchange chat room and the \TeX{}\,SE site itself.

**v0.04** Add implementation for \texttt{LINE SEPARATOR}, \texttt{NEXT LINE (NEL)} and \texttt{PARAGRAPH SEPARATOR}.

**v0.03** Change implementation for \texttt{PUNCTUATION SPACE} and \texttt{THIN SPACE} to fix issues with line wrapping when using these characters.

**v0.02** Round lengths to five digits after decimal point. List also Unicode code point values beside character names.

**v0.01** First published version of this package.

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1\textsuperscript{This already defined for \texttt{pdf\LaTeX} because we use \texttt{inputenc} with \texttt{utf8} option when compiling with \texttt{pdf\LaTeX}, therefore this is only defined for \texttt{Lua\LaTeX} and \texttt{Xe\LaTeX}.}

2\textsuperscript{According to Unicode, these two are canonically equivalent. See \url{http://unicode.org/notes/tn5/} for explanation of the term.}

3\textsuperscript{These two are also canonically equivalent. See previous footnote.}