uspace user manual

v0.03

Václav Haisman

vhaisman@gmail.com

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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 \newunicodechar macro to do it. Its source is hosted on GitHub in wilx/project-uspace repository.

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

ZERO WIDTH SPACE (U+200B)   **\hspace**{0pt}

NARROW NO-BREAK SPACE (U+202F)   **\leavevmode\,**

NON-BREAKING SPACE[1] (U+00A0)   ~

SOFT HYPHEN[1] (U+00AD)   \-

EM QUAD[2] (U+2001)   **\quad**

EM SPACE[2] (U+2001)   **\quad**

EN QUAD[3] (U+2000)   **\enskip**

EN SPACE[3] (U+2000)   **\enskip**

THREE-PER-EM SPACE (U+2004)   **\hspace**{0.33333em}

FOUR-PER-EM SPACE (U+2005)   **\hspace**{0.25em}

SIX-PER-EM SPACE (U+2006)   **\hspace**{0.16667em}

FIGURE SPACE (U+2007)   **\leavevmode\hphantom**{0}

PUNCTUATION SPACE (U+2008)   **\hspace**{\fontcharwd **\font** `\,}

THIN SPACE (U+2009)   **\leavevmode\allowbreak\,**

HAIR SPACE (U+200A)   **\hspace**{0.08333em}

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.

v0.03   Change implementation for PUNCTUATION SPACE and 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]This already defined for pdfLATEX because we use inputenc with utf8 option when compiling with pdfLATEX, therefore this is only defined for LuaLATEX and XƎLATEX.

[2]According to Unicode, these two are canonically equivalent. See http://unicode.org/notes/tn5/ for explanation of the term.

[3]These two are also canonically equivalent. See previous footnote.