

# **uspace user manual**

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## 1 Introduction

This  $\text{\LaTeX}$  package gives useful meaning to various Unicode space characters so that they fulfill their intended function when used in  $\text{\LaTeX}$  source. It uses `\newunicodechar` macro to do it.

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

ZERO WIDTH SPACE	<code>\hspace{0pt}</code>
NARROW NO-BREAK SPACE	<code>\leavevmode\,</code>
NON-BREAKING SPACE <sup>1</sup>	<code>~</code>
SOFT HYPHEN <sup>1</sup>	<code>\-</code>
EM QUAD <sup>2</sup>	<code>\quad</code>
EM SPACE <sup>2</sup>	<code>\quad</code>
EN QUAD <sup>3</sup>	<code>\enskip</code>
EN SPACE <sup>3</sup>	<code>\enskip</code>
THREE-PER-EM SPACE	<code>\hspace{0.33333333333333em}</code>
FOUR-PER-EM SPACE	<code>\hspace{0.25em}</code>
SIX-PER-EM SPACE	<code>\hspace{0.16666666666666em}</code>
FIGURE SPACE	<code>\leavevmode\hphantom{0}</code>
PUNCTUATION SPACE	<code>\leavevmode\hphantom{.}</code>
THIN SPACE	<code>\leavevmode\,\linebreak[0]</code>

HAIR SPACE

`\hspace{0.083333333333em}`

## 2 History

This package would not be what it is without help and comments from people of [T<sub>E</sub>X](#), [L<sub>A</sub>T<sub>E</sub>X and Friends](#) StackExchange chat room and the [T<sub>E</sub>X.SE](#) site itself.

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

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<sup>1</sup>This already defined for pdf<sub>Λ</sub>T<sub>E</sub>X because we use inputenc with utf8 option when compiling with pdf<sub>Λ</sub>T<sub>E</sub>X, therefore this is only defined for Lua<sub>Λ</sub>T<sub>E</sub>X and Xe<sub>Λ</sub>T<sub>E</sub>X.

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

<sup>3</sup>These two are also canonically equivalent. See previous footnote.