The uninormalize package

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Version 0.1
28/12/2020

1 The uninormalize package

The purpose of this package is to provide Unicode normalization for LuaLaTeX. It is based on Arthur Reutenauer’s code for GSOC 2008†, which was adapted a little bit to work with current Luaotfload. For more information, see this question on TeX.sx‡.

1.1 What does that mean?

Citing Wikipedia§:

Unicode equivalence is the specification by the Unicode character encoding standard that some sequences of code points represent essentially the same character. This feature was introduced in the standard to allow compatibility with preexisting standard character sets, which often included similar or identical characters.

Unicode provides two such notions, canonical equivalence and compatibility. Code point sequences that are defined as canonically equivalent are assumed to have the same appearance and meaning when printed or displayed. For example, the code point \texttt{U+006E} (the Latin lowercase "n") followed by \texttt{U+0303} (the combining tilde) is defined by Unicode to be canonically equivalent to the single code point \texttt{U+00F1} (the lowercase letter "ñ" of the Spanish alphabet).

1.2 Basic usage

\documentclass{article}
\usepackage{fontspec}

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§https://code.google.com/p/google-summer-of-code-2008-tex/downloads/list
‡http://tex.stackexchange.com/q/229044/7712
Some tests:
\begin{itemize}
\item combined letter α %GREEK SMALL LETTER ALPHA (U+03B1)
\qquad % + COMBINING GREEK YPOGEGRAMMENI
\item normal letter α % GREEK SMALL LETTER ALPHA WITH
\qquad %YPOGEGRAMMENI (U+1FB3)
\end{itemize}

Some more combined and normal letters:
óóōōöö

Linux Libertine does support some combined chars: \parbox{4em}{příliš}

Using the \verb|^^^^| syntax: ^^^^0061^^^^0301 ^^^^0041^^^^0301

\end{document}

1.3 Package options

This package has three options:
- **buffer** – normalize processed document at the moment when it’s source file
  is read, before processing by \TeX{} starts. This is the default option, it seems to
  work better than the next one.
- **nodes** – normalize Lua\TeX{} nodes. Normalization happens after the full pro-
  cessing by \TeX{}.
- **debug** – print debug messages to the terminal output

Both **buffer** and **nodes** options are enabled by default, you can disable any of
them by using:

\usepackage[nodes=false,buffer=false]{uninormalize}

1.4 Example results

- combined letter α
- normal letter α

Some more combined and normal letters: óóōōöö

Linux Libertine does support some combined chars: příliš

Using the ^^^^ syntax: á Á
1.5 License

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This work has the LPPL maintenance status \textit{maintained}.

The Current Maintainer of this work is Michal Hoftich.