

hyph-utf8

Mojca Miklavc & Arthur Reutenauer

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Abstract

The `hyph-utf8` package gathers all the existing hyphenation patterns for $\mathrm{T}_{\mathrm{E}}\mathrm{X}$, converted to UTF-8. They can be used directly by UTF-8-aware $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ engines such as $\mathrm{LuaT}_{\mathrm{E}}\mathrm{X}$ and $\mathrm{X}_{\mathrm{Y}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$, and there is a mechanism to convert the patterns to some 8-bit encoding when used with $\mathrm{pdfT}_{\mathrm{E}}\mathrm{X}$ or Knuth's $\mathrm{T}_{\mathrm{E}}\mathrm{X}$.

List of supported languages

English

-	english	usenglish, USenglish, american
en-us	usenglishmax	
en-gb	ukenglish	british, UKenglish

Afrikaans

af	afrikaans
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Ancientgreek

grc	ancientgreek
grc-x-ibycus	ibycus

Arabic

ar	arabic
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Armenian

hy	armenian
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Assamese

as	assamese
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Basque

eu	basque
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Bengali

bn	bengali
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Bulgarian

bg	bulgarian
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Catalan

ca	catalan
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Chinese

zh-latn-pinyin	pinyin
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Coptic

cop	coptic
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Croatian

hr	croatian
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Czech

cs	czech
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Danish

da	danish
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Dutch

nl	dutch
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Esperanto

eo	esperanto
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Estonian

et	estonian
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Ethiopic

mul-ethi	ethiopic	amharic, geez
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Farsi

fa	farsi	persian
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Finnish

fi	finnish
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French

fr	french	patois, francais
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Galician

gl	galician
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German

de-1901	german
de-1996	ngerman
de-ch-1901	swissgerman

Greek

el-monoton	monogreek	
el-polyton	greek	polygreek

Gujarati

gu	gujarati
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Hindi

hi	hindi
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Hungarian

hu	hungarian
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Icelandic

is	icelandic
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Indonesian

id	indonesian
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Interlingua			Portuguese		
ia	interlingua		pt	portuguese	portuges
Irish			Romanian		
ga	irish		ro	romanian	
Italian			Russian		
it	italian		ru	russian	
Kannada			Sanskrit		
kn	kannada		sa	sanskrit	
Kurmanji			Serbian		
kmr	kurmanji		sr-latn	serbian	
Lao			sr-cyrl	serbianc	
lo	lao		Slovak		
Latin			sk	slovak	
la	latin		Slovenian		
Latvian			sl	slovenian	slovene
lv	latvian		Spanish		
Lithuanian			es	spanish	espanol
lt	lithuanian		Swedish		
Malayalam			sv	swedish	
ml	malayalam		Tamil		
Marathi			ta	tamil	
mr	marathi		Telugu		
Mongolian			te	telugu	
mn-cyrl	mongolian		Turkish		
mn-cyrl-x-lmc	mongolianlmc		tr	turkish	
Norwegian			Turkmen		
nb	bokmal	norwegian, norsk	tk	turkmen	
nn	nynorsk		Ukrainian		
Oriya			uk	ukrainian	
or	oriya		Uppersorbian		
Panjabi			hsb	uppersorbian	
pa	panjabi		Welsh		
Polish			cy	welsh	
pl	polish				

Using hyphenation patterns

Plain T_EX

In engines that support ϵ -T_EX you can select the desired hyphenation patterns with:

```
\uselanguage{langname}
```

where `langname` is the string identifying a particular hyphenation file in `language.dat` and can be taken from table on the first two pages.

L^AT_EX

Since Babel's `hyphen.cfg` is built in the XeL^AT_EX format, hyphenation patterns can be used without even loading Babel or Polyglossia. At the low-level this simply corresponds to defining

```
\language=\l@<langname>
```

The user command is supposed to be

```
\hyphenrules{langname}
```

or

```
\begin{hyphenrules}{langname} ... \end{hyphenrules}.
```

and should work with any flavour of L^AT_EX, however we couldn't make it work.

L^AT_EX with Babel

You can use Babel with any T_EX engine, however it is currently unmaintained and has never been adapted to work well with Unicode engines. If you are using XeT_EX please use Polyglossia instead.

```
\usepackage[language]{babel}
```

L^AT_EX with Polyglossia

Polyglossia should be the preferred choice when using XeL^AT_EX. It doesn't support LuaL^AT_EX yet, but it is planned to extend it in future.

```
\usepackage{polyglossia}
\setmainlanguage[optional settings]{langname}
\setotherlanguages{otherlangname}

\begin[optional settings]{otherlangname} ... \end{otherlangname}
```

See Polyglossia manual for extensive list of options.

ConT_EXt

ConT_EXt doesn't load patterns for all the language that hyph-utf8 provides. If you miss any language, please contact the mailing list. The general syntax for supported languages is the following:

```
% language of the main document
\mainlanguage[language]

{\language[otherlanguage] language of some short fragment}
```

You can use full language name or language code. When using ConT_EXt MKII you might need to select the appropriate font encoding for Cyrillic scripts, Polish and some other languages:

```
\usetypescript[iwona][qx]
\setupbodyfont[iwona]
\mainlanguage[polish]
```

ConT_EXt loads hyphenation patterns in several encodings, so that you can for example use Czech patterns with either ec or il2 font encodings. The right hyphenation patterns will be chosen based on current font encoding.

More examples

Example for Polyglossia

```
\usepackage{polyglossia}
% the language used for main document
\setmainlanguage{asturian}
% American English with extended hyphenation patterns
\setotherlanguage[variant=usmax]{english}
% German with experimental patterns "ngerman-x-latest"
\setotherlanguage[spelling=new,latesthyphen=true]{german}
\setotherlanguages{spanish,catalan,french}

\begin{document}
```

Long Asturian text ... (Hyphenation for Asturian is not available, but polyglossia automatically falls back on Catalan for now, which seems to be a reasonable choice.)

```
\begin{german}
Deutscher Text ... (with the hyphenation patterns selected above: "ngerman-x-latest")
\end{german}
```

```
\begin[script=fraktur,spelling=old]{german}
Deutŕcher Text ... (set in Fraktur, with traditional hyphenation).
\end{german}
```

```
\end{document}
```