

Package ‘phonetisr’

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Title A Naive IPA Tokeniser

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Description It provides users with functions to parse International Phonetic Alphabet (IPA) transcriptions into individual phones (tokenisation) based on default IPA symbols and optional user specified multi-character phones. The tokenised transcriptions can be used for obtaining counts of phones or for searching for words matching phonetic patterns.

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Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

Imports cli, dplyr, lifecycle, magrittr, stringi, stringr, tibble,
Unicode

Depends R (>= 2.10)

Suggests rmarkdown, knitr, tidyverse

VignetteBuilder knitr

URL <https://github.com/stefanocoretta/phonetisr>,
<https://stefanocoretta.github.io/phonetisr/>

NeedsCompilation no

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featurise	<i>Add features to list of phones</i>
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Description

This function counts occurrences of phones and includes basic phonetic features.

Usage

```
featurise(phlist)
```

Arguments

phlist A list of phones or the output of phonetise().

Value

A tibble.

Examples

```
ipa <- c("ada", "buba", "kiki", "sa\u0283a")
ip_ph <- phonetise(ipa)
featurise(ip_ph)
```

get_no_ipa	<i>Get non-IPA characters.</i>
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Description

Given a vector of characters, it returns those which are not part of the IPA.

Usage

```
get_no_ipa(chars)
```

Arguments

chars A vector of characters.

Value

A vector.

Examples

```
get_no_ipa(c("a", "\0283", ">"))
```

ipa_symbols	<i>List of IPA symbols</i>
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Description

List of IPA symbols

Usage

```
ipa_symbols
```

Format

A data frame with 143 rows and 12 variables:

IPA IPA symbol.

unicode Unicode code.

uni_name Unicode name.

ipa_name IPA name.

phon_type The phonetic type of the symbol.

type General character type (consonant, vowel, diacritic).

height_ipa Vowel openness.
height Vowel height.
backness Vowel backness.
rounding Vowel rounding.
voicing Consonant voicing.
place Consonant place of articulation.
manner Consonant manner of articulation.
lateral Is the consonant lateral?
sonorant Is the phone sonorant?

k1_swadesh

Klingon Swadesh list

Description

The Swadesh list in Klingon.

Usage

k1_swadesh

Format

A data frame with 195 rows and 4 variables:

id Swadesh list item number.
gloss English gloss.
translit Klingon transliteration.
ipa IPA transcription.

phonetise

Tokenise IPA strings

Description

phonetise() tokenises strings of IPA symbols (like phonetic transcriptions of words) into individual "phones". The output is a list.

Usage

```
phonetise(
  strings,
  multi = NULL,
  regex = NULL,
  split = TRUE,
  sep = " ",
  sanitise = TRUE,
  ignore_stress = TRUE,
  ignore_tone = TRUE,
  diacritics = FALSE,
  affricates = FALSE,
  v_sequences = FALSE,
  prenasalised = FALSE,
  all_multi = FALSE,
  sanitize = sanitise
)
```

```
phonetize(
  strings,
  multi = NULL,
  regex = NULL,
  split = TRUE,
  sep = " ",
  sanitise = TRUE,
  ignore_stress = TRUE,
  ignore_tone = TRUE,
  diacritics = FALSE,
  affricates = FALSE,
  v_sequences = FALSE,
  prenasalised = FALSE,
  all_multi = FALSE,
  sanitize = sanitise
)
```

Arguments

<code>strings</code>	A character vector with a list of words in IPA.
<code>multi</code>	A character vector of one or more multi-character phones as strings.
<code>regex</code>	A string with a regular expression to match several multi-character phones.
<code>split</code>	If set to TRUE (the default), the tokenised strings are split into phones (i.e. the output is a vector with one element per phone). If set to FALSE, the string is not split and the phones are separated with the character defined in <code>sep</code> .
<code>sep</code>	A character to be used as the separator of the phones if <code>split = FALSE</code> (default is <code>" "</code> , space).
<code>sanitise</code>	Whether to remove all non-IPA characters (TRUE by default).
<code>ignore_stress</code>	If TRUE (the default), stress marks are not parsed.

ignore_tone	If TRUE (the default), tone marks and letters are not parsed.
diacritics	If set to TRUE, parses all valid diacritics as part of the previous character (FALSE by default).
affricates	If set to TRUE, parses homorganic stop + fricative as affricates.
v_sequences	If set to TRUE, collapses vowel sequences (FALSE by default).
prenasalised	If set to TRUE, parses prenasalised consonants as such (FALSE by default).
all_multi	If set to TRUE, diacritics, affricates, v_sequences and prenasalised are all set to TRUE.
sanitize	Alias of sanitise.

Value

A list of phonetised strings.

Examples

```
# using unicode escapes for CRAN policy
ipa <- c("p\u02B0a\u0303k\u02B0", "t\u02B0um\u0325", "\u025Bk\u02B0\u026F")
ph <- c("p\u02B0", "t\u02B0", "k\u02B0", "a\u0303", "m\u0325")

phonetise(ipa, multi = ph)

ph_2 <- ph[4:5]

# Match any character followed by <\u02B0> with ".\u02B0".
phonetise(ipa, multi = ph_2, regex = ".\u02B0")

# Same result.
phonetise(ipa, regex = ".(\u0303|\u0325|\u02B0)")

# Don't split strings and use "." as separator
phonetise(ipa, multi = ph, split = FALSE, sep = ".")
```

ph_search

Search phones

Description

Given a vector of phonetised strings, find phones.

Usage

```
ph_search(phlist, phonex)
```

Arguments

<code>phlist</code>	The output of <code>phonetise()</code> .
<code>phonex</code>	A phonetic expression. Supported shorthands are C for consonant, V for vowel, and # for word boundary.

Value

A list.

Examples

```
ipa <- c("p\u02B0a\u0303k\u02B0", "t\u02B0um\u0325", "\u025Bk\u02B0\u026F", "pun")
ph <- c("p\u02B0", "t\u02B0", "k\u02B0", "a\u0303", "m\u0325")
ipa_ph <- phonetise(ipa, multi = ph)
ph_search(ipa_ph, "#CV")

# partial matches are also returned
ph_search(ipa_ph, "p")

# use regular expressions
ph_search(ipa_ph, "p\u02B0?V")
```

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