Package 'tipitaka'

October 14, 2022

Type Package Title Data and Tools for Analyzing the Pali Canon Version 0.1.2 Description Provides access to the complete Pali Canon, or Tipitaka, the canonical scripture for Theravadin Buddhists worldwide. Based on the Chattha Sangayana Tipitaka version 4 (Vipassana Research Institute, 1990). License CC0 **Encoding** UTF-8 LazyData true LazyDataCompression xz RoxygenNote 7.1.1 **Depends** R (>= 2.10) Imports stringr, dplyr, magrittr, stringi, cpp11 LinkingTo cpp11 SystemRequirements C++14 **NeedsCompilation** yes Author Dan Zigmond [aut, cre] Maintainer Dan Zigmond <djz@shmonk.com> **Repository** CRAN Date/Publication 2021-03-30 11:10:02 UTC

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abhidhamma_pitaka All the books of the Abhidhamma Pitaka

Description

A subset of tipitaka_names consisting of only the books of the Abhidhamma Pitaka. These are easier to read if you call pali_string_fix() first.

Usage

abhidhamma_pitaka

Format

A tibble with the variables:

book Abbreviated title

name Full title

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Examples

```
# Clean up the Unicode characters to make things more readble:
abhidhamma_pitaka$name <-
stringi::stri_unescape_unicode(abhidhamma_pitaka$name)
```

Count all the words in the Abhidhamma Pitaka: sum(tipitaka_long[tipitaka_long\$book %in% abhidhamma_pitaka\$book, "n"]) pali_alphabet Pali alphabet in order

Description

Pali alphabet in order

Usage

pali_alphabet

Format

The Pali alphabet in traditional order.

Examples

```
# Returns TRUE because a comes before b in Pali:
match("a", pali_alphabet) < match("b", pali_alphabet)
# Returns FALSE beceause c comes before b in Pali
match("b", pali_alphabet) < match("c", pali_alphabet)</pre>
```

pali_eq Equal (==) comparison function for Pali words	pali_eq	Equal (==) comparison function for Pali words	
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Description

Note that all Pali string comparisons are case-insensitive.

Usage

pali_eq(word1, word2)

Arguments

word1	A first Pali word as a string
word2	A second Pali word as a string

Value

TRUE if word1 and word2 are the same

pali_gt

Description

Note that all Pali string comparisons are case-insensitive. #' Also non-Pali characters are placed at the end of the alphabet and are considered equivalent to each other.

Usage

pali_gt(word1, word2)

Arguments

word1	A first Pali word as a string
word2	A second Pali word as a string

Value

TRUE if word1 comes after word2 alphabetically

pali_lt

Less-than (<) comparison function for Pali words

Description

Note that all Pali string comparisons are case-insensitive. Also non-Pali characters are placed at the end of the alphabet and are considered equivalent to each other. This has been implemented in C++ for speed.

Usage

pali_lt(word1, word2)

Arguments

word1	A first Pali word as a string
word2	A second Pali words as a string

Value

TRUE if word1 comes before word2 alphabetically

pali_sort

Description

Note that all Pali string comparisons are case-insensitive. This algorithm is based on Quicksort, but creates lots of intermediate data structures instead of doing swaps in place. This has been implemented in C++ as the original R version was about 500x slower.

Usage

pali_sort(word_list)

Arguments

word_list A vector of Pali words

Value

A new vector of Pali words in Pali alphabetical order

Examples

```
# Every unique word of of the Mahāsatipatthāna Sutta in
# Pali alphabetical order:
pali_sort(sati_sutta_long$word)
# A sorted list of 100 random words from the Tiptaka:
library(dplyr)
pali_sort(sample(tipitaka_long$word, 100))
```

pali_stop_words Tentative set of "stop words" for Pali

Description

A list of all declinables and particles from the PTS Pali-English Dictionary.

Usage

```
pali_stop_words
```

Format

An object of class tbl_df (inherits from tbl, data.frame) with 245 rows and 1 columns.

Source

```
https://dsalsrv04.uchicago.edu/dictionaries/pali/
```

Examples

```
# Find most common words in the Mahāsatipatthāna Sutta excluding stop words
library(dplyr)
sati_sutta_long %>%
    anti_join(pali_stop_words, by = "word") %>%
    arrange(desc(freq))
```

sati_sutta_long Mahāsatipatthāna Sutta in "long" form

Description

The Mahāsatipatthāna Sutta or Discourse on the Establishing of Mindfulness in "long" form.

Usage

sati_sutta_long

Format

An object of class data. frame with 832 rows and 4 columns.

Source

Vipassana Research Institute, CST4, April 2020

sati_sutta_raw Mahāsatipatthāna Sutta text in raw form

Description

The unprocessed text of the Mahāsatipatthāna Sutta

Usage

sati_sutta_raw

Format

A tibble with the variable:

text Complete text

sutta_pitaka

Source

Vipassana Research Institute, CST4, April 2020

sutta_pitaka

All the books of the Sutta Pitaka

Description

A subset of tipitaka_names consisting of only the books of the Sutta Pitaka. These are easier to read if you call stringi::stri_unescape_unicode first.

Usage

sutta_pitaka

Format

A tibble with the variables:

book Abbreviated title

name Full title

Examples

```
# Clean up the Unicode characters to make things more readble:
sutta_pitaka$name <-
   stringi::stri_unescape_unicode(sutta_pitaka$name)
# Count all the words in the Suttas:
sum(
    unique(
      tipitaka_long[tipitaka_long$book %in% sutta_pitaka$book, "total"]))
# Count another way:
sum(tipitaka_long[tipitaka_long$book %in% sutta_pitaka$book, "n"])
# Create a tibble of just the Suttas
sutta_wide <-
    tipitaka_wide[row.names(tipitaka_wide) %in% sutta_pitaka$book,]
```

tipitaka

Description

The package tipitaka provides access to the complete Pali Canon, or Tipitaka, from R. The Tipitaka is the canonical scripture for Therevadin Buddhists worldwide. This version is largely taken from the Chattha Sangāyana Tipitaka version 4.0 com; iled by the Vispassana Research Institute, although edits have been made to conform to the numbering used by the Pali Text Society. This package provides both data and tools to facilitate the analysis of these ancient Pali texts.

Data

Several data sets are included:

- tipitaka_raw: the complete text of the Tipitaka
- tipitaka_long: the complete Tipitaka in "long" form
- tipitaka_wide: the complete Tipitaka in "wide" form
- tipitaka_names: the names of each book of the Tipitaka
- sutta_pitaka: the names of each volume of the Sutta Pitaka
- vinaya_pitaka: the names of each volume of the Vinaya Pitaka
- abhidhamma_pitaka: the names of each volume of the Abhidhamma Pitak
- sati_sutta_raw: the Mahāsatipatthāna Sutta text
- sati_sutta_long: the Mahāsatipatthāna Sutta in "long" form
- pali_alphabet: the complete pali alphabet in traditional order
- pali_stop_words: a set of "stop words" for Pali

Tools

A few useful functions are provided for working with Pali text:

- pali_lt: less-than function for Pali strings
- pali-gt: greater-than function for Pali strings
- pali-eq: equals function for Pali strings
- pali-sort: sorting function for vectors of pali strings

tipitaka_long Tipitaka in "long" form

Description

Every word of every volume of the Tipitaka, with one word per volume per line.

Usage

tipitaka_long

Format

A tibble with the variables:

word Pali word

n Number of time this word appears in this book

total Ttal number of words in this book

freq Frequency with which this word appears in this book

book Abbreviated book name

Source

Vipassana Research Institute, CST4, April 2020

tipitaka_names	Names of each book of the Tipitaka, both abbreviated and in full.
	These are easier to read if you call pali_string_fix() first.

Description

Names of each book of the Tipitaka, both abbreviated and in full. These are easier to read if you call pali_string_fix() first.

Usage

tipitaka_names

Format

A tibble with the variables:

book Abbreviated title

name Full title

Examples

```
# Clean up the Unicode characters to make things more readble:
tipitaka_names$name <-
   stringi::stri_unescape_unicode(tipitaka_names$name)
```

Tipitaka text in raw form

tipitaka_raw

Description

The unprocessed text of the Tipitaka, with one row per volume.

Usage

tipitaka_raw

Format

A tibble with the variables:

text Text of each Tipitaka volume

book Abbreviated book name of each volume

Source

Vipassana Research Institute, CST4, April 2020

tipitaka_wide Tipitaka in "wide" form

Description

Every word of every volume of the Tipitaka, with one word per column and one book per line. Each cell is the frequency at which that word appears in that book.

Usage

tipitaka_wide

Format

An object of class data. frame with 46 rows and 141360 columns.

Source

Vipassana Research Institute, CST4, April 2020

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vinaya_pitaka

Description

A subset of tipitaka_names consisting of only the books of the Vinaya Pitaka. These are easier to read if you call stringi::stri_unescape_unicode first.

Usage

vinaya_pitaka

Format

A tibble with the variables:

book Abbreviated title

name Full title

Examples

```
# Clean up the Unicode characters to make things more readble:
vinaya_pitaka$name <-
stringi::stri_unescape_unicode(vinaya_pitaka$name)
```

Count all the words in the Vinaya Pitaka: sum(tipitaka_long[tipitaka_long\$book %in% vinaya_pitaka\$book, "n"])

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