

Package ‘TTEdata’

January 24, 2020

Title Data sets for TTE course

Version 1.0

Description Data sets for the final project for the class time-to-event analysis of linguistic data.

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Depends R (>= 3.5.0), survival, survminer, multcomp

Imports survival, survminer, multcomp

Encoding UTF-8

LazyData yes

RoxygenNote 6.1.1

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ald	<i>Auditory lexical decision data</i>
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Description

Auditory lexical decision data from the MALD database (Tucker et al, 2019)

Usage

ald

Format

A matrix with 22,374 rows and 12 columns:

word the item in the auditory lexical decision task

rt the average response time in ms

duration the acoustic duration of the word, as presented to the participants

log.frequency the (log-transformed) frequency of the word in the SUBTLEX-US corpus

length the length of the word in letters

num.phonemes the length of the word in phonemes

num.syllables the length of the word in syllables

log.old the (log-transformed) orthographic Levenshtein distance between the word and its 20 closest orthographic neighbors

log.pld the (log-transformed) phonological Levenshtein distance between the word and its 20 closest phonological neighbors

snd the average semantic similarity between the word and its 5 closest semantic neighbors

pos the dominant parts-of-speech category for the word

sqrt.up the (square root transformed) uniqueness point of the word; this is the phoneme at which a word is uniquely distinguishable from all other words

Source

Tucker, B. V., Brenner, D., Danielson, D. K., Kelley, M. C., Nenadić, F., & Sims, M. (2019). The Massive Auditory Lexical Decision (MALD) database. *Behavior Research Methods*.

References

Brysbaert, M., New, B., & Keuleers, E. (2012). Adding part-of-speech information to the SUBTLEX-US word frequencies. *Behavior Research Methods*, 44(4), 991-997.

ld	<i>Lexical decision data (aging)</i>
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Description

Lexical decision data for old and young participants from Spieler and Balota (1997)

Usage

ld

Format

A matrix with 4,422 rows and 8 columns:

word the item in the lexical decision task

rt the average response time in ms

age the age of the participants

log.frequency the (log-transformed) frequency of the word in the SUBTLEX-US corpus

length the length of the word in letters

log.old the (log-transformed) orthographic Levenshtein distance between the word and its 20 closest orthographic neighbors

snd the average semantic similarity between the word and its 5 closest semantic neighbors

pos the dominant parts-of-speech category for the word

Source

Spieler D. H., & Balota, D. A. (1997). Bringing computational models of word naming down to the item level. *Psychological Science*, 8(6), 411-416.

References

Brysbaert, M., New, B., & Keuleers, E. (2012). Adding part-of-speech information to the SUBTLEX-US word frequencies. *Behavior Research Methods*, 44(4), 991-997.

nam	<i>Word naming data (aging)</i>
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Description

Word naming data for old and young participants from Spieler and Balota (1997)

Usage

nam

Format

A matrix with 4,422 rows and 8 columns:

word the item in the word naming task

rt the average response time in ms

age the age of the participants

log.frequency the (log-transformed) frequency of the word in the SUBTLEX-US corpus

length the length of the word in letters

log.old the (log-transformed) orthographic Levenshtein distance between the word and its 20 closest orthographic neighbors

snd the average semantic similarity between the word and its 5 closest semantic neighbors

pos the dominant parts-of-speech category for the word

Source

Spieler D. H., & Balota, D. A. (1997). Bringing computational models of word naming down to the item level. *Psychological Science*, 8(6), 411-416.

References

Brysbaert, M., New, B., & Keuleers, E. (2012). Adding part-of-speech information to the SUBTLEX-US word frequencies. *Behavior Research Methods*, 44(4), 991-997.

sd	<i>Semantic decision data</i>
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Description

Semantic decision data (concrete/abstract) from the Calgary semantic decision project

Usage

sd

Format

A matrix with 4,422 rows and 8 columns:

word the item in the semantic decision task

rt the average response time in ms

log.frequency the (log-transformed) frequency of the word in the SUBTLEX-US corpus

length the length of the word in letters

log.old the (log-transformed) orthographic Levenshtein distance between the word and its 20 closest orthographic neighbors

snd the average semantic similarity between the word and its 5 closest semantic neighbors

pos the dominant parts-of-speech category for the word

type the semantic type of the word; concrete or abstract

concrete.rating the concreteness rating of the word

Source

Pexman, P. M., Heard, A., Lloyd, E., & Yap, M. J. (2017). The Calgary semantic decision project: concrete/abstract decision data for 10,000 English words. *Behavior Research Methods*, 49(2), 407-417.

References

Brysbaert, M., New, B., & Keuleers, E. (2012). Adding part-of-speech information to the SUBTLEX-US word frequencies. *Behavior Research Methods*, 44(4), 991-997.

vb	<i>Paste tense generation</i>
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Description

Past tense generation data from Cohen et al. (2013)

Usage

vb

Format

A matrix with 1,978 rows and 7 columns:

word the item in the paste tense generation task

rt the average response time in ms

rt regularity of the verb

log.frequency the (log-transformed) frequency of the word in the SUBTLEX-US corpus

length the length of the word in letters

log.old the (log-transformed) orthographic Levenshtein distance between the word and its 20 closest orthographic neighbors

snd the average semantic similarity between the word and its 5 closest semantic neighbors

pos the dominant parts-of-speech category for the word

type the semantic type of the word; concrete or abstract

concrete.rating the concreteness rating of the word

Source

Cohen-Shikora, E. R., Balota, D. A., Kapuria, A., & Yap, M. J. (2013). The past tense inflection project (PTIP): Speeded past tense inflections, imageability ratings, and past tense consistency measures for 2,200 verbs. *Behavior research methods*, 45(1), 151-159.

References

Brysbaert, M., New, B., & Keuleers, E. (2012). Adding part-of-speech information to the SUBTLEX-US word frequencies. *Behavior Research Methods*, 44(4), 991-997.

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