Package 'warmthcompetence'

May 11, 2026

Type Package

Title Warmth and Competence Detectors

Version 0.1.5

Description
Detects perceptions of warmth and competence in American English self-presentation language. Using trained elastic net regression models, this package provides a numerical representation of warmth and competence perceptions. Methods are described here:<https://github.com/bushraguenoun/warmthcompetence/tree/master/paper>.

License AGPL (>= 3)

Encoding UTF-8

URL https://github.com/bushraguenoun/warmthcompetence, https://bushraguenoun.github.io/warmthcompetence/

BugReports https://github.com/bushraguenoun/warmthcompetence/issues

RoxygenNote 7.3.3

Imports spacyr, caret, dplyr (>= 1.2.0), lexicon, ngram, qdap, politeness, qdapDictionaries, quanteda (>= 4.0.2), sentimentr, stats, tidyr, tidytext, tm, quanteda.textstats

Depends R (>= 4.1.0)

Suggests rmarkdown, knitr

LazyData true

VignetteBuilder knitr

NeedsCompilation no

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Contents

`competence` *Competence Detector*

Description

Assesses warmth and competence perceptions in self-presentational natural language. These functions each take an N-length vector of self-presentational text documents and N-length vector of document IDs and return a warmth/competence perception score that represents how much warmth/competence others attribute the individual who wrote the self-presentational text. The function also contains a metrics argument that enables users to also return the raw features used to assess warmth and competence perceptions. Methods are described here:https://github.com/bushraguenoun/warmthcompetence/tree/master/paper.

Usage

```
competence(text, ID = NULL, metrics = "scores")

warmth(text, ID = NULL, metrics = "scores")
```

Arguments

`text`	`character`; a vector of texts, each of which will be assessed for warmth/competence.
`ID`	`character`; a vector of IDs that will be used to identify the warmth/competence scores.
`metrics`	`character`; an argument that allows users to decide what metrics to return. Users can return the warmth/competence scores (`metrics = "scores"`), the features that underlie the warmth/competence scores (`metrics = "features"`), or both the warmth/competence scores and the features (`metrics = "all"`). The default is to return the warmth/competence scores.

Details

Some features depend on Spacyr which must be installed separately in Python.

Value

The default is to return a data frame with each row containing the document identifier and the warmth/competence score. Users can also customize what is returned through the `metrics` argument. If `metrics = "features"`, then a data frame of warmth/competence features will be returned where each document is represented by a row. If `metrics = "all"`, then both the warmth/competence scores and features will be returned in a data frame.

References

Benoit, K., Watanabe, K., Wang, H., Nulty, P., Obeng, A., Müller, S., & Matsuo, A. (2018). quanteda: An R package for the quantitative analysis of textual data. *Journal of Open Source Software*, 3(30), 774. doi:10.21105/joss.00774

Buchanan, E. M., Valentine, K. D., & Maxwell, N. (2018). The LAB: Linguistic Annotated Bibliography.

Rinker, T. W. (2018). lexicon: Lexicon Data version 1.2.1.

Rinker, T. W. (2021). sentimentr: Calculate Text Polarity Sentiment version 2.9.0.

Yeomans, M., Kantor, A., & Tingley, D. (2019). The politeness Package: Detecting Politeness in Natural Language. *The R Journal*, 10(2), 489. doi:10.32614/RJ2018079

Examples

```
data("example_data")

warmth_scores <- warmth(example_data$bio, metrics = "all")

example_data$warmth_predictions <- warmth_scores$warmth_predictions
warmth_model1 <- lm(RA_warm_AVG  ~ warmth_predictions, data = example_data)
summary(warmth_model1)

competence_scores <- competence(example_data$bio, metrics = "all")

example_data$competence_predictions <- competence_scores$competence_predictions
competence_model1 <- lm(RA_comp_AVG ~ competence_predictions, data = example_data)
summary(competence_model1)
```

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example_data *Example Data*

Description

40 random bios from the vignette data. 20 bios were randomly selected from the competence condition and 20 bios were randomly selected from the warmth condition.

Usage

```
example_data
```

Format

A dataframe with 40 rows and 11 columns

vignette_data *Vignette Data*

Description

Sample data from a study that can be used to test and explore the package. In this study, participants were asked to present themselves in either a warm or competent manner. Then, three judges blind to participant condition coded the introductions for warmth and competence.

Usage

```
vignette_data
```

Format

A dataframe with 393 rows and 11 columns

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