Example application using openEnded to analyze open-ended manipulation checks

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Installation

```
# install and load package
devtools::install_github('jeffreyziegler/openEnded', force=T, build_vignettes=T)
library(openEnded)
```

```
#> [1] "Hello, welcome to openEnded! Please be patient while I load my dependencies :)"
```

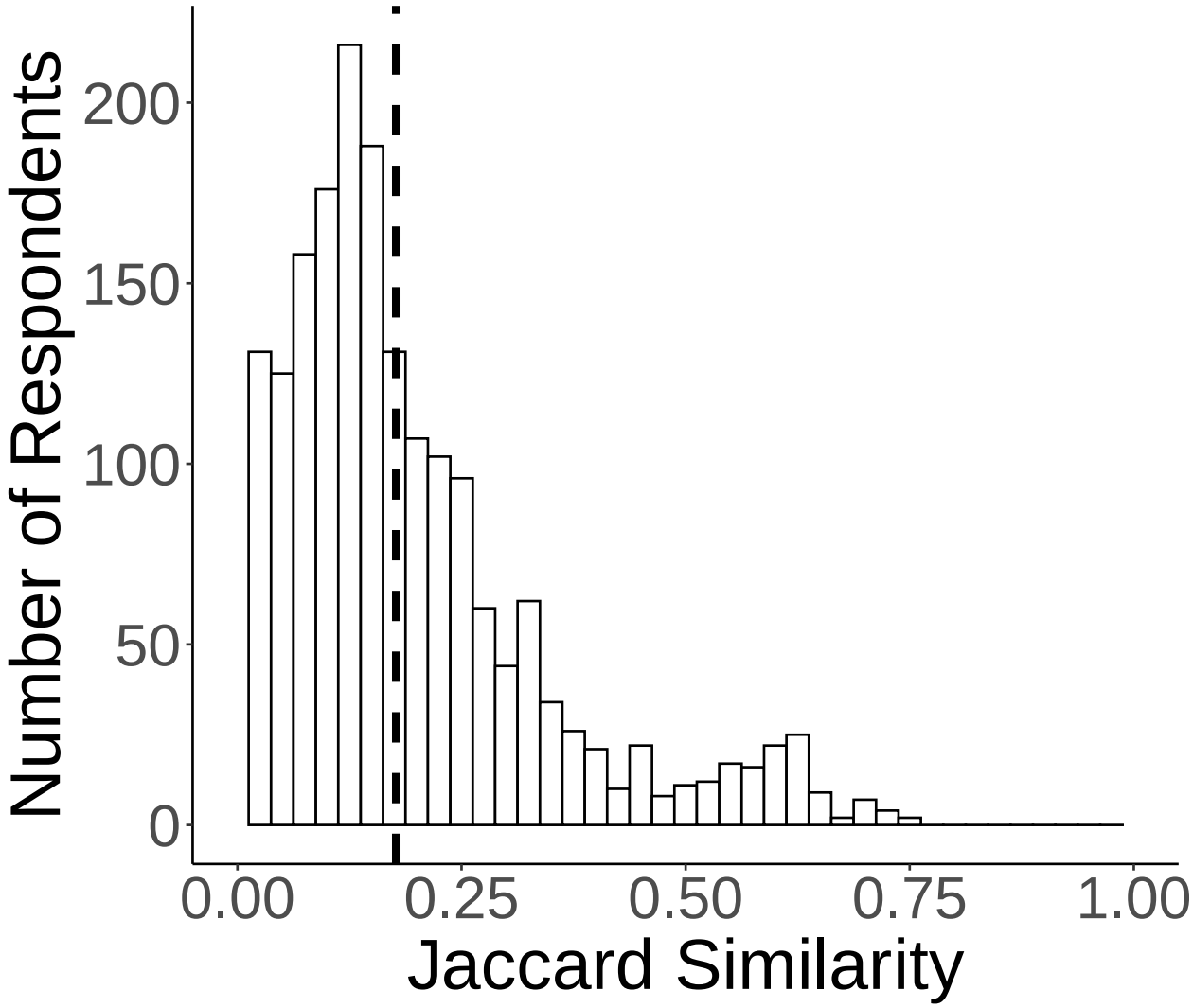
Example Application: Ziegler (2020)

```
# load data from GitHub
replication_complete.cases <- read.csv("http://bit.ly/repData",
                                       stringsAsFactors = F)
# re-level factors
replication_complete.cases$Concordant <- relevel(as.factor(replication_complete.cases$Concordant), ref =
replication_complete.cases$attendanceBin <- relevel(as.factor(replication_complete.cases$attendanceBin)
```

Create similarity measures.

```
# create jaccard and cosine similarity measures
replication_complete.cases <- similarityMeasures(dataframe=replication_complete.cases,
                            similarity_measures_to_calculate=c("jaccard", "cosine", "jw", "dl"),
                            prompt="textViewed", response="validityCheck", ngrams=3)
```

```
# plot Jaccard distances for just Brazil
brazil_rows <- which(replication_complete.cases$Country=="Brazil")
plotSimilarity(dataframe=replication_complete.cases[brazil_rows,],
               measure="jaccardDist", xlab="Jaccard Similarity")
```


Number of Respondents
200
150
100
50
0
0.00
0.25
0.50
0.75
1.00
Jaccard Similarity