Thematic_norms_analyses

Katharine Aveni

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```
#read in norms data by items: Final_thematic_norms_ratings_ARCHARCHIVED
TN.data <- readxl::read_excel(file.choose())

library("Matrix")
library("plyr")
library("tidyr")
```

```
##
## Attaching package: 'tidyr'

## The following objects are masked from 'package:Matrix':
##
##     expand, pack, unpack
```

```
library("ggplot2")
library("dplyr")
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:plyr':
##
##     arrange, count, desc, failwith, id, mutate, rename, summarise,
##     summarize

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
TN.data[TN.data == "."] <- NA
TN.data <- plyr::rename(TN.data, replace = c( `Std Deviation` = "STDev"))

TN1.data <- subset(TN.data, TN.data$Survey==1)
TN2.data <- subset(TN.data, TN.data$Survey!=1)
```

```r
TN1.targets <- subset(TN1.data, TN1.data$Role=="target")
mean(TN1.targets$Mean)
```

```
## [1] 6.189572
```

```r
mean(TN1.targets$STDev)
```

```
## [1] 0.925615
```

```r
TN1.distractors <- subset(TN1.data, TN1.data$Role=="distractor")
mean(TN1.distractors$Mean)
```

```
## [1] 2.237949
```

```r
mean(TN1.distractors$STDev)
```

```
## [1] 1.108462
```

```r
TN2.targets <- subset(TN2.data, TN2.data$Role=="target")
mean(TN2.targets$Mean)
```

```
## [1] 5.875707
```

```r
mean(TN2.targets$STDev)
```

```
## [1] 1.085969
```

```r
TN2.distractors <- subset(TN2.data, TN2.data$Role=="distractor")
mean(TN2.distractors$Mean)
```

```
## [1] 2.287891
```

```r
mean(TN2.distractors$STDev)
```

```
## [1] 1.120192
```

```r
TN.selected <- subset(TN.data, TN.data$Selected_Stimuli=="yes")
TN.selected.targets <- subset(TN.selected, TN.selected$Role=="target")
mean(TN.selected.targets$Mean)
```

```
## [1] 6.301736
```

```r
mean(TN.selected.targets$STDev)
```

```
## [1] 0.86875
```

```r
TN.selected.distractors <- subset(TN.selected, TN.selected$Role=="distractor")
mean(TN.selected.distractors$Mean)
```

```
## [1] 1.681458
```

```r
mean(TN.selected.distractors$STDev)
```

```
## [1] 0.9496875
```

```r
#read in means data by participant: TN1 essential [7/14] data
TN1.participants <- read.csv(file.choose(), header = T, fileEncoding="UTF-8-BOM")

TN1.participants.no.outlier <- TN1.participants[which(TN1.participants$LCAN_ID != "LCAN_001_04"),]

cor.test(TN1.participants.no.outlier$MOCA, TN1.participants.no.outlier$Mean_z_score, alternative = "two
```

```
##
##  Pearson's product-moment correlation
##
## data:  TN1.participants.no.outlier$MOCA and TN1.participants.no.outlier$Mean_z_score
## t = -1.5807, df = 24, p-value = 0.127
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.62060593  0.09111808
## sample estimates:
##       cor
## -0.3070719
```

```r
cor.test(TN1.participants.no.outlier$Age, TN1.participants.no.outlier$Mean_z_score, alternative = "two.s
```

```
##
##  Pearson's product-moment correlation
##
## data:  TN1.participants.no.outlier$Age and TN1.participants.no.outlier$Mean_z_score
## t = 0.15682, df = 24, p-value = 0.8767
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  -0.3598163  0.4142134
## sample estimates:
##       cor
## 0.03199494
```