Online Supplementary Materials

**OSM1.** Sample screenshot of the different viewing conditions

C1. Unenhanced captions

Mujer sentada en un escritorio

Descripción generada automáticamente

C2. Enhanced orthography non-contrastive

Mujer sentada en un escritorio

Descripción generada automáticamente

C3. Enhanced orthography contrastive

Mujer sentada en un escritorio

Descripción generada automáticamente

C4. Enhanced IPA symbols non-contrastive

Mujer sentada en un escritorio

Descripción generada automáticamente

C5. Enhanced IPA symbols contrastive



**OSM2.** Code orderNorm in the package bestNormalize used to normalize the RelFixDur variable (accessible at <https://github.com/ebrenc/rstats/blob/main/var_normalize.R>):

var\_normalize = function(x, poly\_n = 3, get\_coefs = TRUE) {

library(tidyverse)

if (!require(bestNormalize, quietly = TRUE)) { install.packages("bestNormalize", dependencies = TRUE) }

library(bestNormalize)

ordernorm = x %>% bestNormalize::orderNorm(warn = FALSE) %>% pluck("x.t")

fit = lm(ordernorm ~ poly(x, poly\_n, raw = TRUE), NULL)

poly = poly(x, poly\_n, raw = TRUE) %>% as\_tibble() #%>% pluck("1")

normalized = predict(fit, as.data.frame(x))

if (get\_coefs == TRUE) {result = list(

norm = normalized,

coef = enframe(coef(fit), name = NULL) %>% rename(coef = value),

poly = poly)

} else {result = normalized}

return(result)

}

**OSM3.** Parameter estimates of linear fixed-effects models.

A1a. FixRate ~ *Group*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *OddR* | *βstd* | *SE* | *z* | *p* | *R2Con/Mar* |
| *Intercept* | 0.879 | 0.879 | 0.286 | -0.397 | 0.691 | 0.413/0.001 |
| *Group [C2]* | 1.182 | 1.182 | 0.532 | 0.371 | 0.711 |
| Random effects variances | *Residual* | *Subject* | *TWs* |  |  |  |
|  | 3.29 | 1.69 | 0.61 |  |  |  |

A1b. RelFixDur ~ *Group*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *Estimates* | *βstd* | *SE* | *z* | *p* | *R2Con/Mar* |
| *Intercept* | -0.50 | -0.298 | 0.081 | -6.150 | **<0.001** | 0.368/0.02 |
| *Group [C2]* | 0.27 | 0.291 | 0.095 | 2.832 | **0.005** |
| Random effects variances | *Residual* | *Subject* | *TWs* |  |  |  |
|  | 0.58 | 0.07 | 0.25 |  |  |  |

A2a. FixRate ~ *Text* x *Enhancement*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *OddR* | *βstd* | *SE* | *z* | *p* | *R2Con/Mar* |
| *Intercept* | 1.615 | 1.615 | 0.468 | 1.655 | 0.098 | 0.392/0.02 |
| *Text* [IPA] | 1.678 | 1.678 | 0.702 | 1.238 | 0.216 |
| *Enhancement* [1-color] | 0.651 | 0.651 | 0.272 | -1.026 | 0.305 |
| *Text* x *Enhancement* | 1.022 | 1.022 | 0.613 | 0.036 | 0.971 |
| Random effects variances | *Residual* | *Subject* | *TWs* |  |  |  |
|  | 3.29 | 1.58 | 0.43 |  |  |  |

A2b. RelFixDur ~ *Text* x *Enhancement*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *Estimates* | *βstd* | *SE* | *z* | *p* | *R2Con/Mar* |
| *Intercept* | -0.214 | -0.28 | 0.075 | -2.858 | **0.004** | 0.308/0.018 |
| *Text* [IPA] | 0.296 | 0.297 | 0.089 | 3.312 | **0.001** |
| *Enhancement* [1-color] | -0.001 | -0.001 | 0.091 | -0.01 | 0.992 |
| *Text* x *Enhancement* | -0.066 | -0.066 | 0.13 | -0.508 | 0.611 |
| Random effects variances | *Residual* | *Subject* | *TWs* |  |  |  |
|  | 0.71 | 0.07 | 0.23 |  |  |  |