Analisis-control-limpio

Joaquin Cervino

2023-10-06

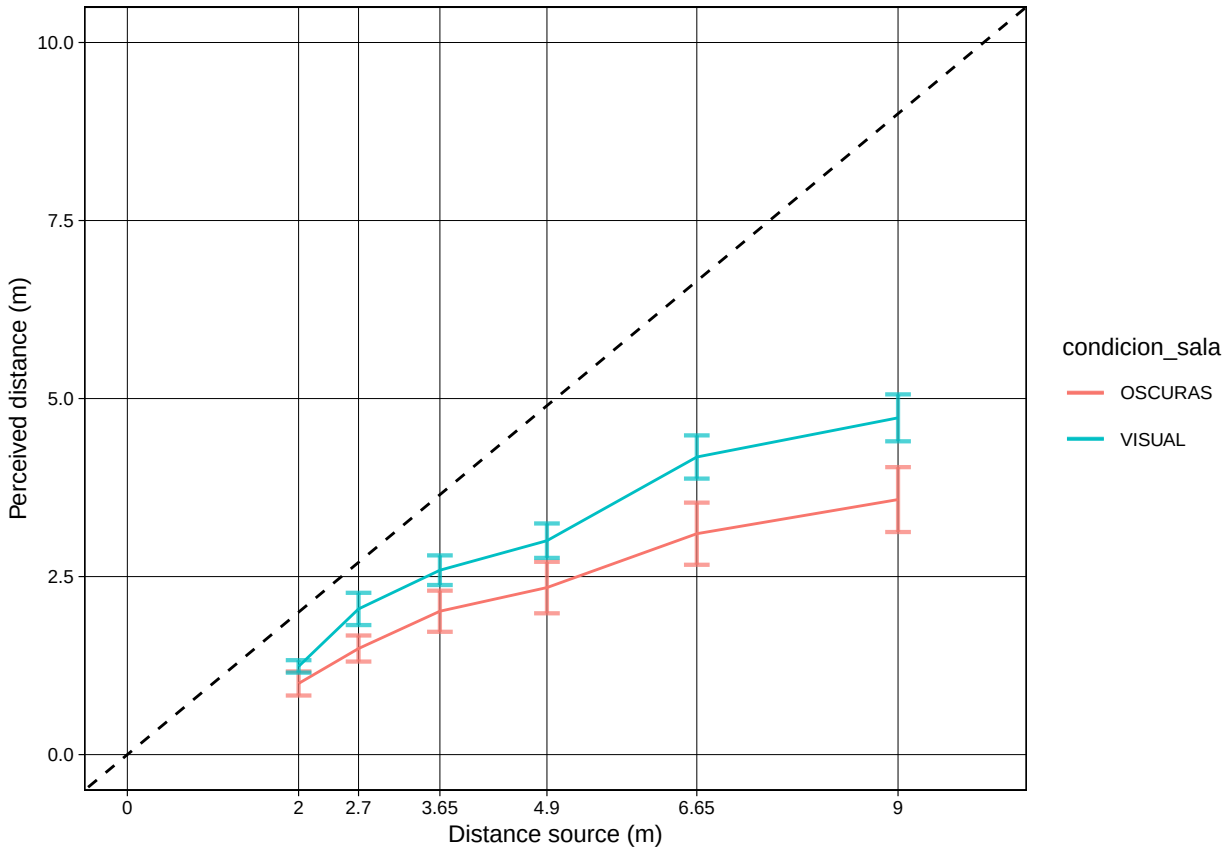
Intro

Este es un control sobre si hay ajuste o no entre modalidad oscuras y visual para la pad. (escribir mas)

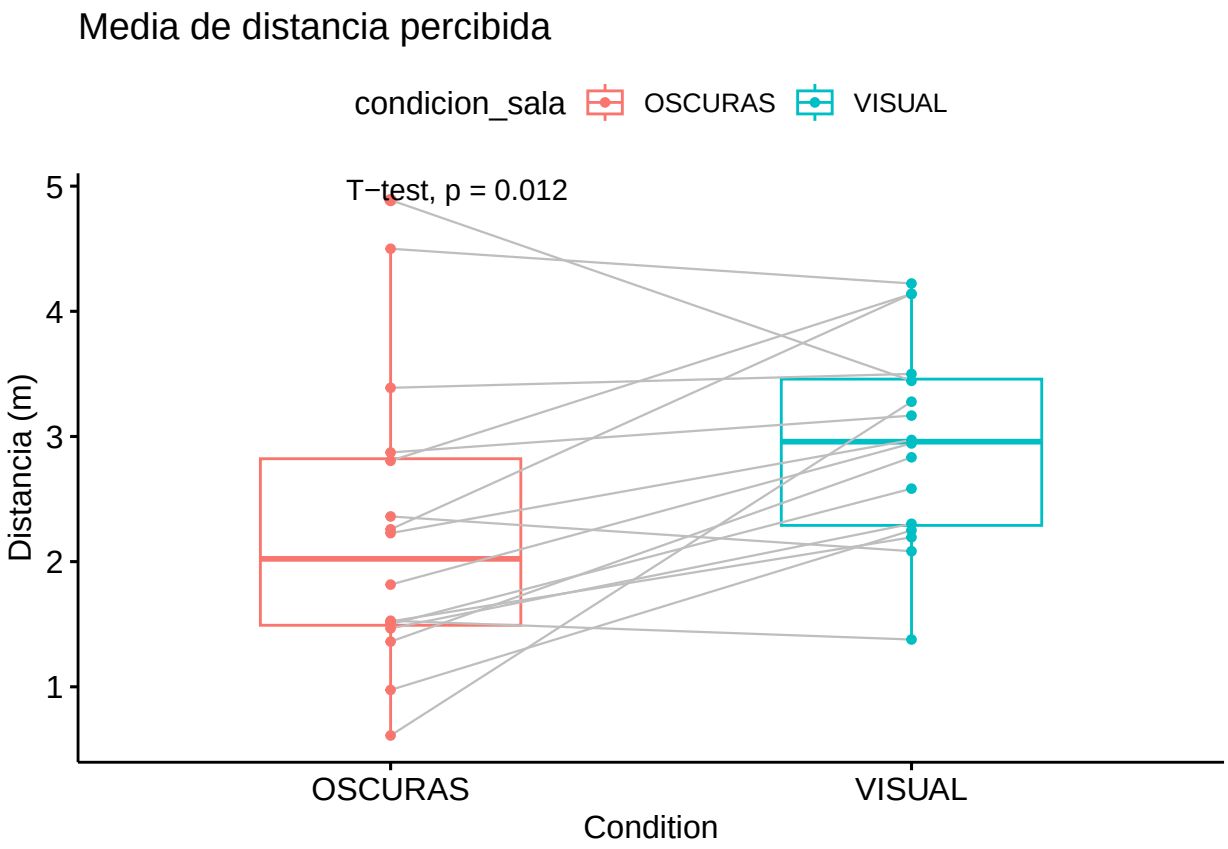
Analisis de datos

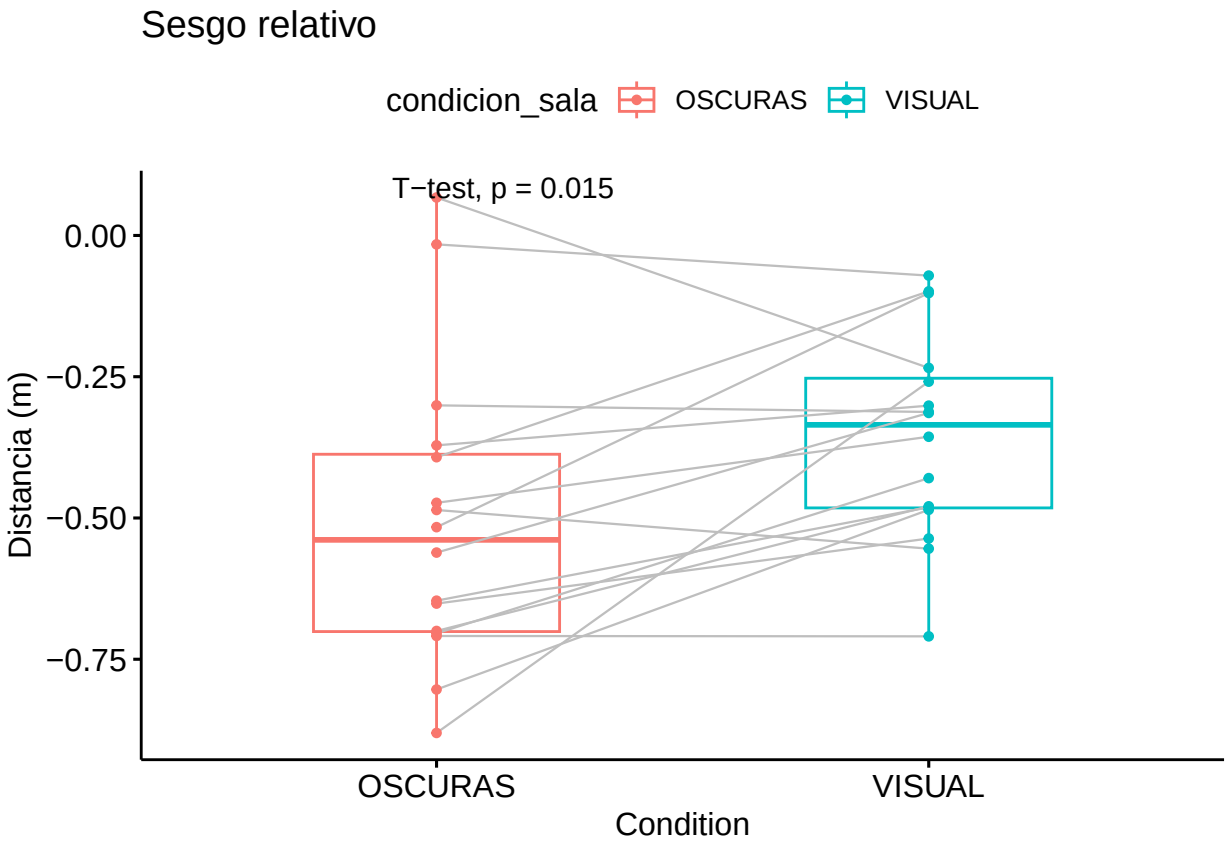
Figuras

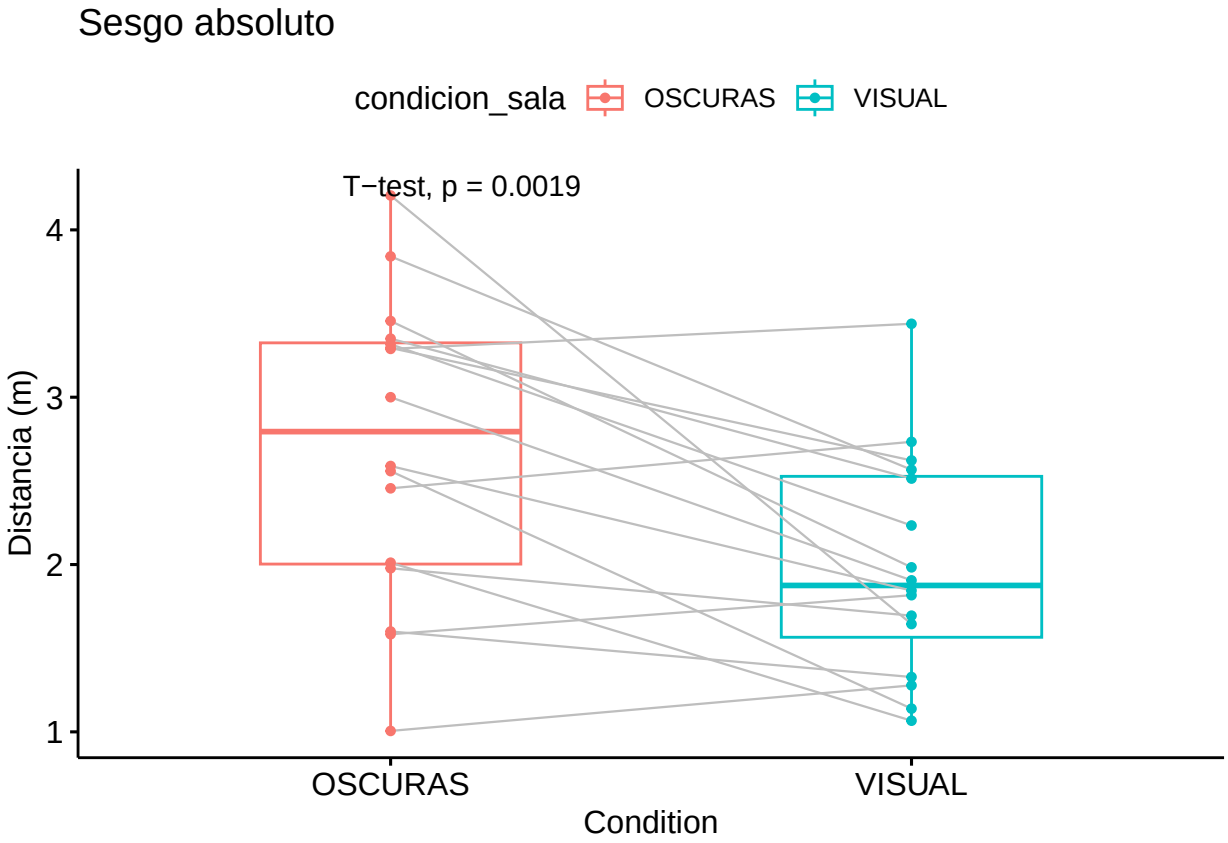
Tabla pob



Sesgo


Media de distancia percibida
condicion_sala
OSCURAS
VISUAL
T−test, p = 0.012
Distancia (m)
5
4
3
2
1
OSCURAS
VISUAL
Condition


Sesgo relativo
condicion_sala
OSCURAS
VISUAL
T−test, p = 0.015
0.00
−0.25
−0.50
−0.75
Distancia (m)
OSCURAS
VISUAL
Condition


Sesgo absoluto
condicion_sala
OSCURAS
VISUAL
T−test, p = 0.0019
Distancia (m)
4
3
2
1
OSCURAS
VISUAL
Condition

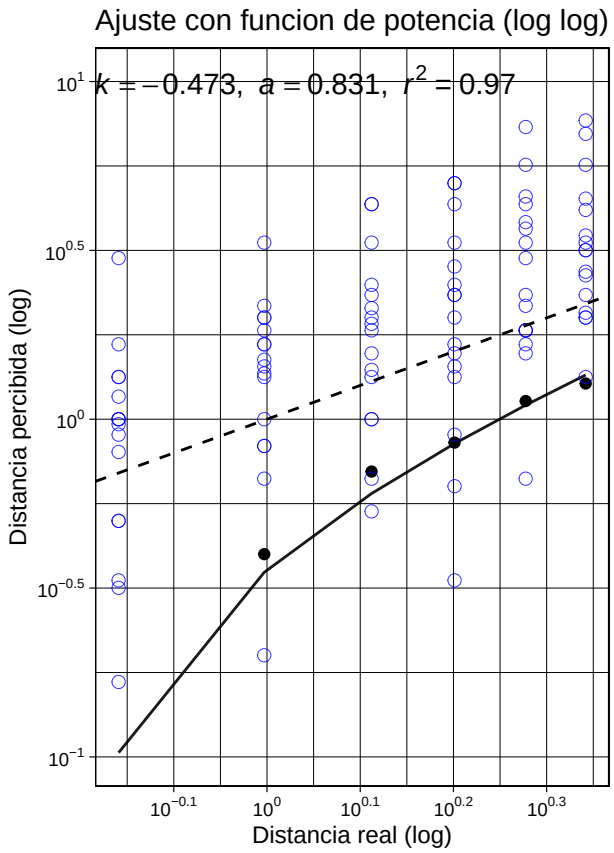
Estadistica

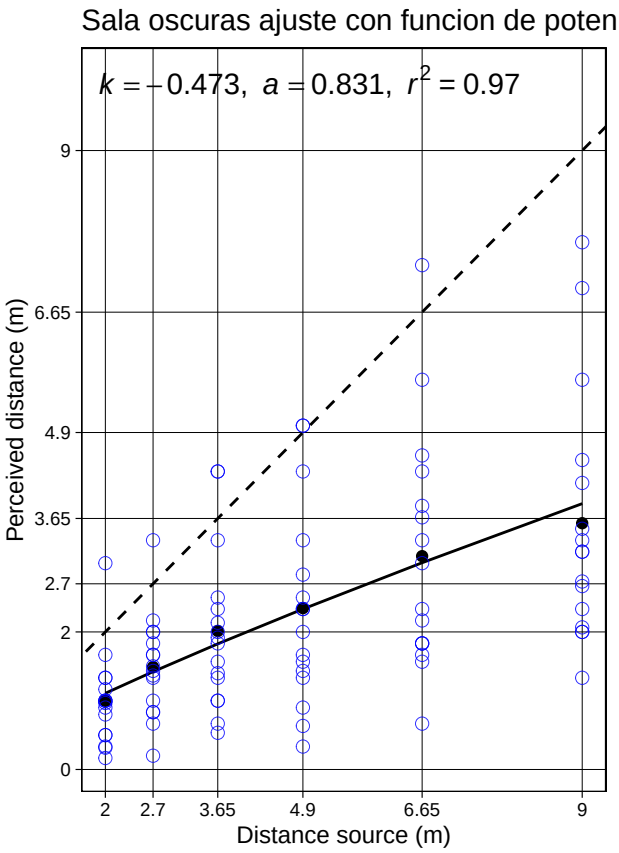
Modelo de efectos mixtos y anova.

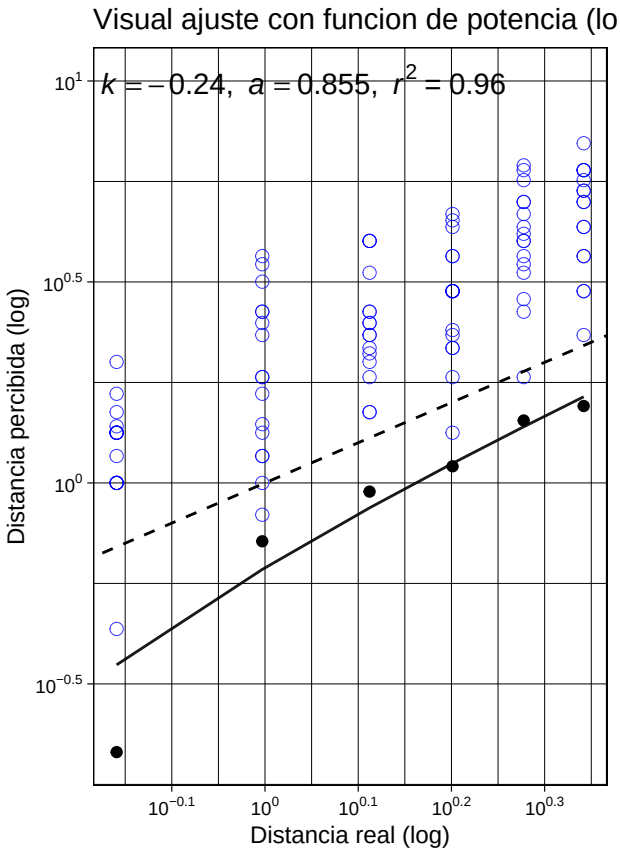
```
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: log(respuesta[, "mean"]) ~ condicion_sala * log(distancia) +
##     (1 | nsub)
##    Data: tabla.ind
##
## REML criterion at convergence: 201.7
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -3.6475 -0.5398 -0.0116  0.6009  2.6675
##
## Random effects:
##  Groups   Name        Variance Std.Dev.
##  nsub     (Intercept) 0.1371   0.3703
##  Residual             0.1277   0.3574
## Number of obs: 192, groups:  nsub, 16
##
## Fixed effects:
##                                      Estimate Std. Error         df t value
## (Intercept)                          -0.702517   0.142916  65.087835  -4.916
## condicion_salaVISUAL                  0.384442   0.153982 173.000000   2.497
## log(distancia)                        0.873711   0.071061 173.000000  12.295
## condicion_salaVISUAL:log(distancia)  -0.002567   0.100495 173.000000  -0.026
##                                     Pr(>|t|)
## (Intercept)                          6.3e-06 ***
## condicion_salaVISUAL                  0.0135 *
## log(distancia)                       < 2e-16 ***
## condicion_salaVISUAL:log(distancia)   0.9797
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) cn_VISUAL lg(ds)
## cndc_VISUAL -0.539
## log(distnc) -0.718  0.666
## c_VISUAL:()  0.508 -0.942    -0.707
```

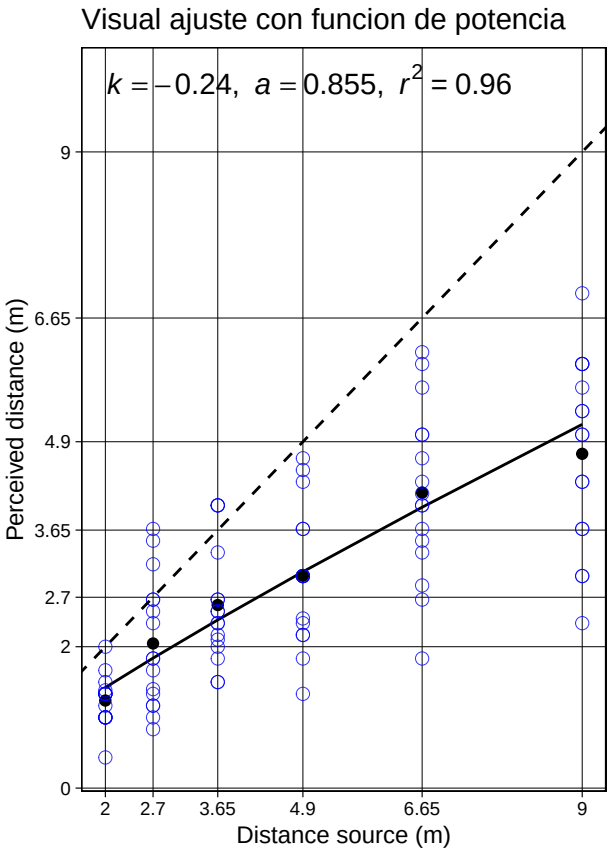
```
## Type III Analysis of Variance Table with Satterthwaite's method
##                              Sum Sq Mean Sq NumDF DenDF  F value  Pr(>F)
## condicion_sala                0.796   0.796     1   173   6.2334 0.01347 *
## log(distancia)               38.501  38.501     1   173 301.4582 < 2e-16 ***
## condicion_sala:log(distancia)  0.000   0.000     1   173   0.0007 0.97965
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Analisis de funcion de potencia



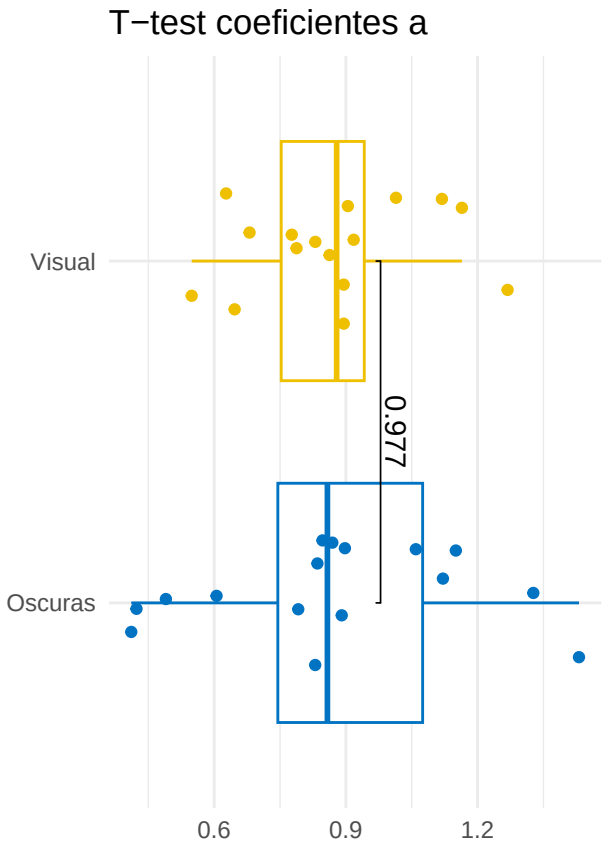


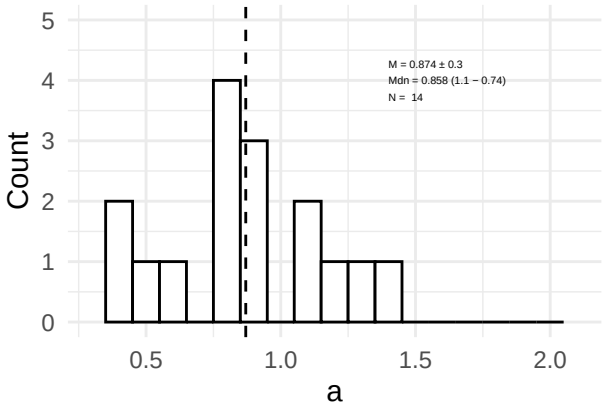

Visual ajuste con funcion de potencia (lo
$k = -0.24,\ a = 0.855,\ r^2 = 0.96$
Distancia percibida (log)
Distancia real (log)
10^{1}
$10^{0.5}$
10^{0}
$10^{-0.5}$
$10^{-0.1}$
10^{0}
$10^{0.1}$
$10^{0.2}$
$10^{0.3}$

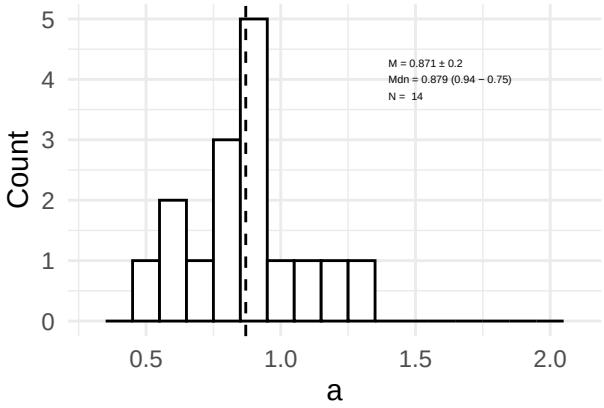

Visual ajuste con funcion de potencia
$k = -0.24,\ a = 0.855,\ r^2 = 0.96$
Perceived distance (m)
Distance source (m)
9
6.65
4.9
3.65
2.7
2
0
2
2.7
3.65
4.9
6.65
9

Obteniendo coeficiente por sujeto

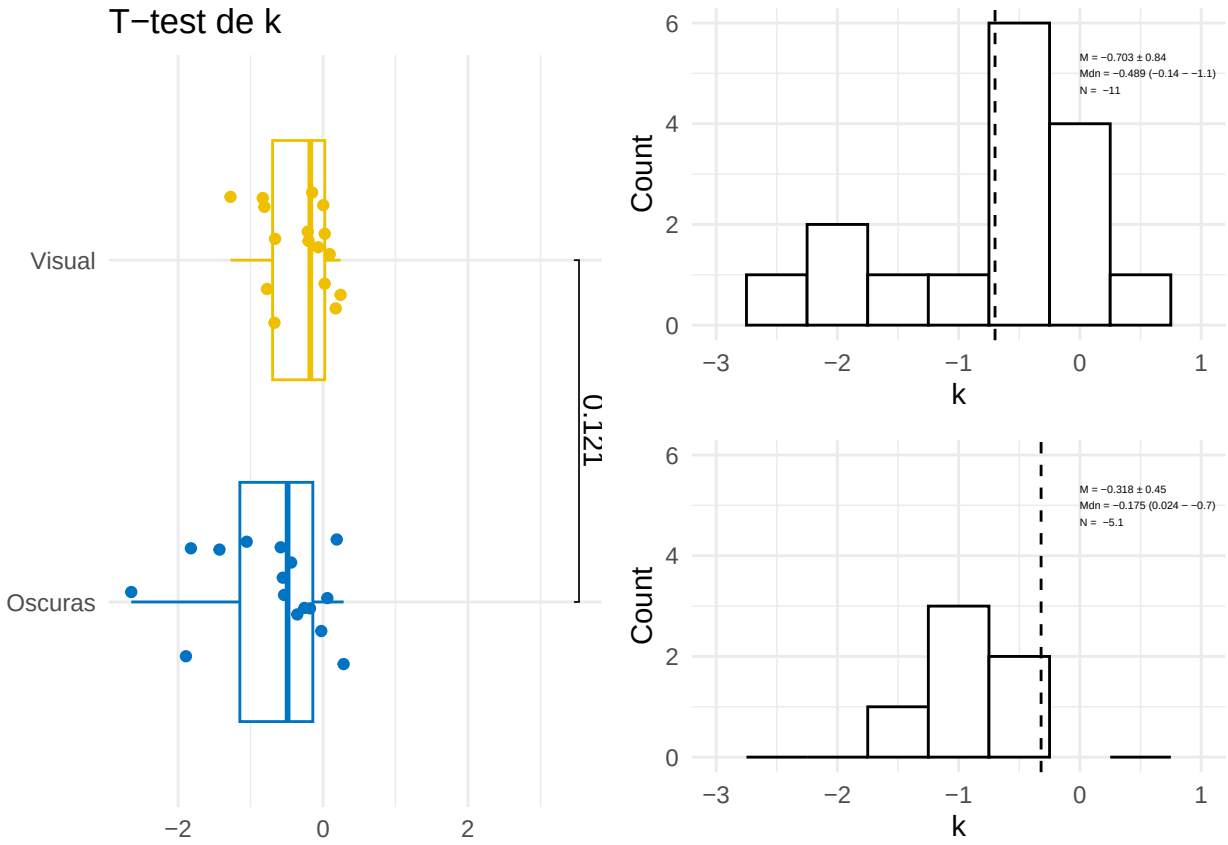
Coefciente a Este coeficiente representa el exponente del ajuste con funcion de potencias. Explica la parte no lineal de la compresion.



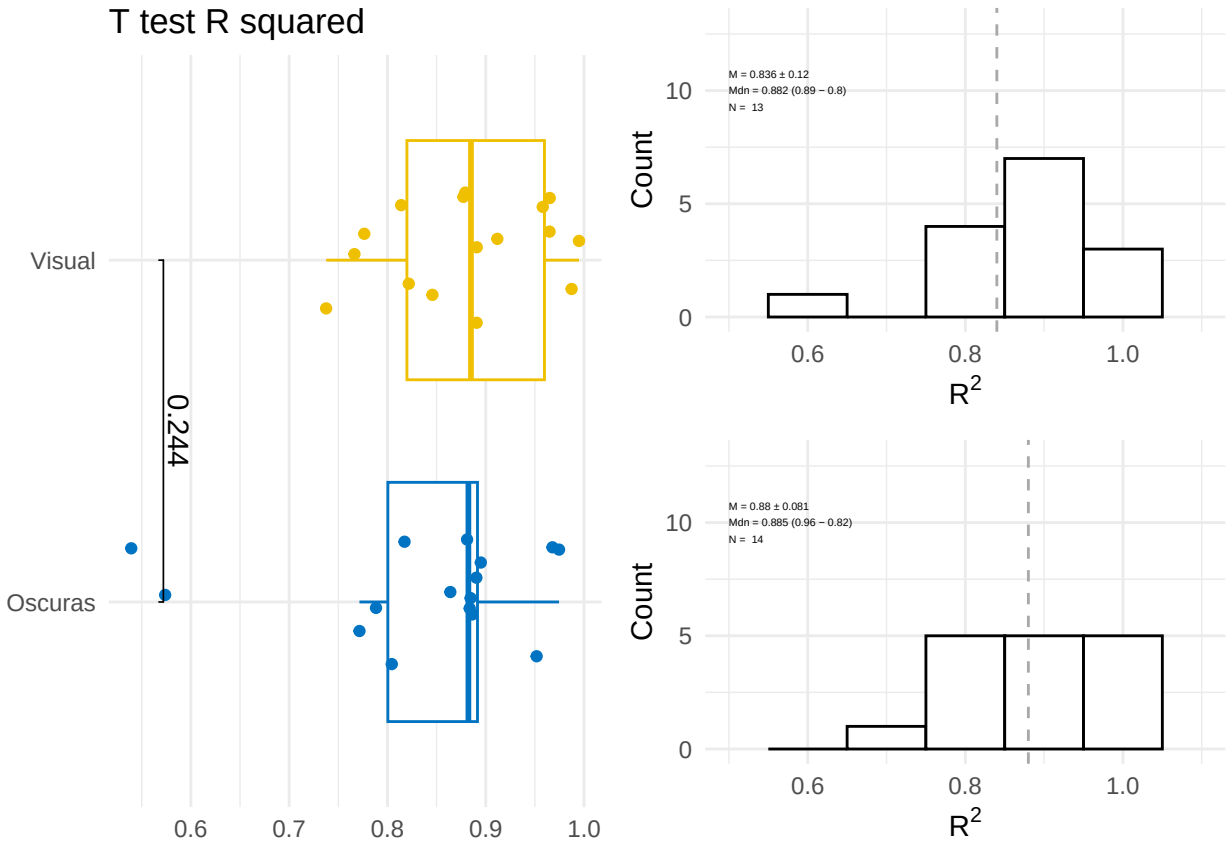




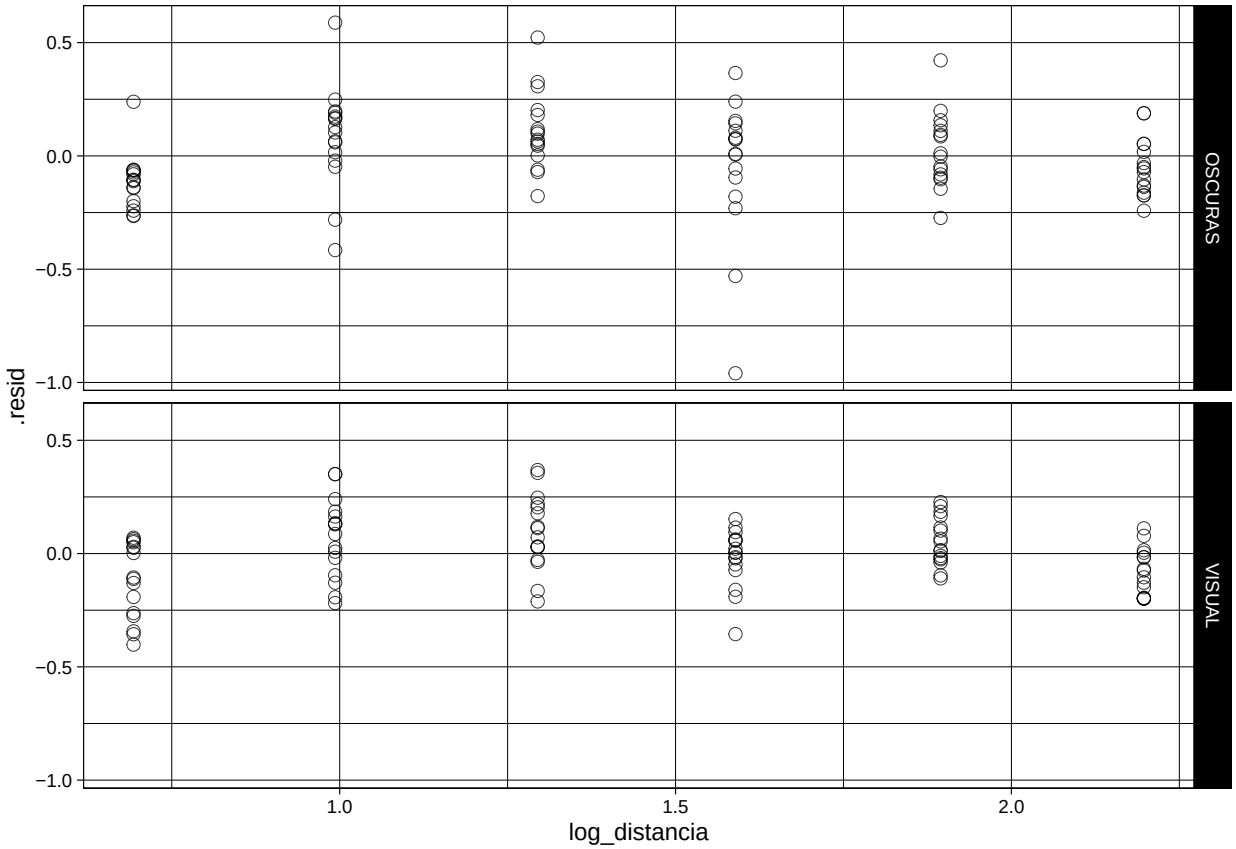
k intercept placeholder

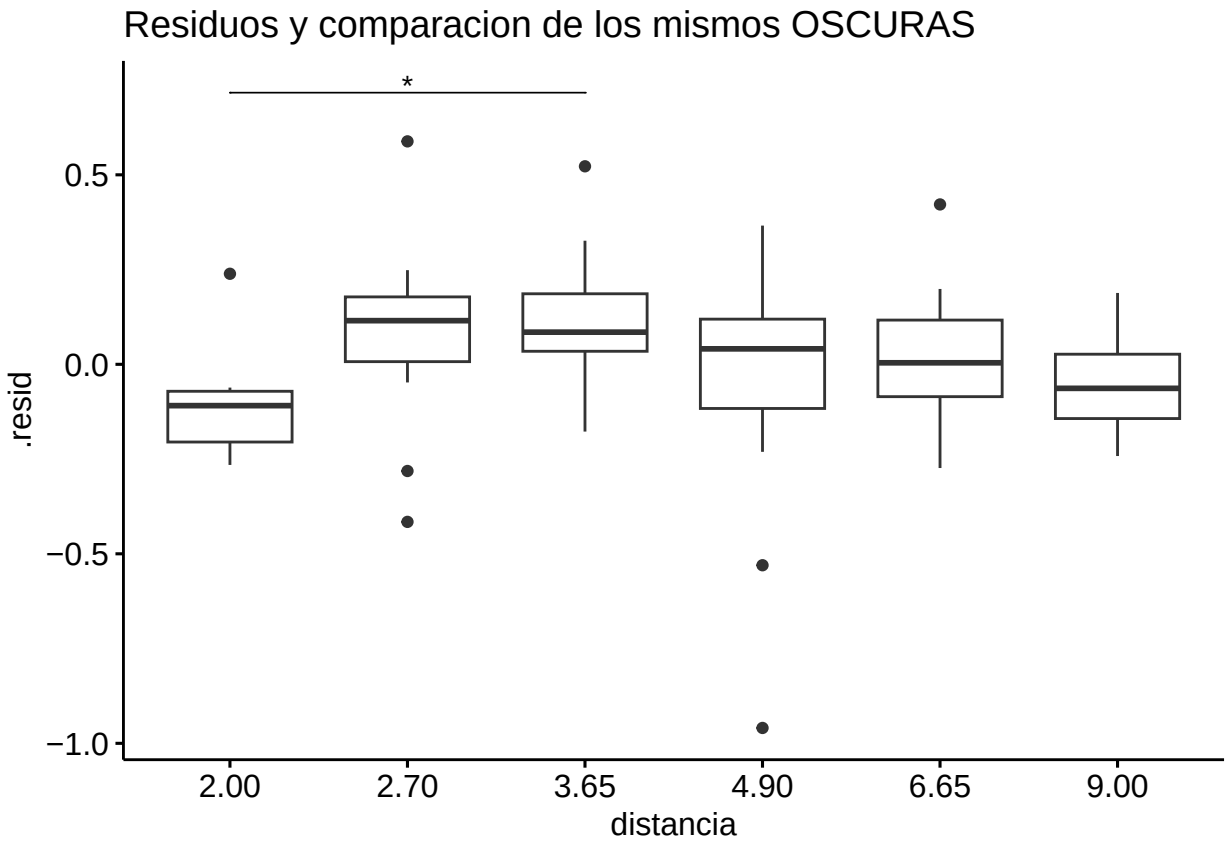


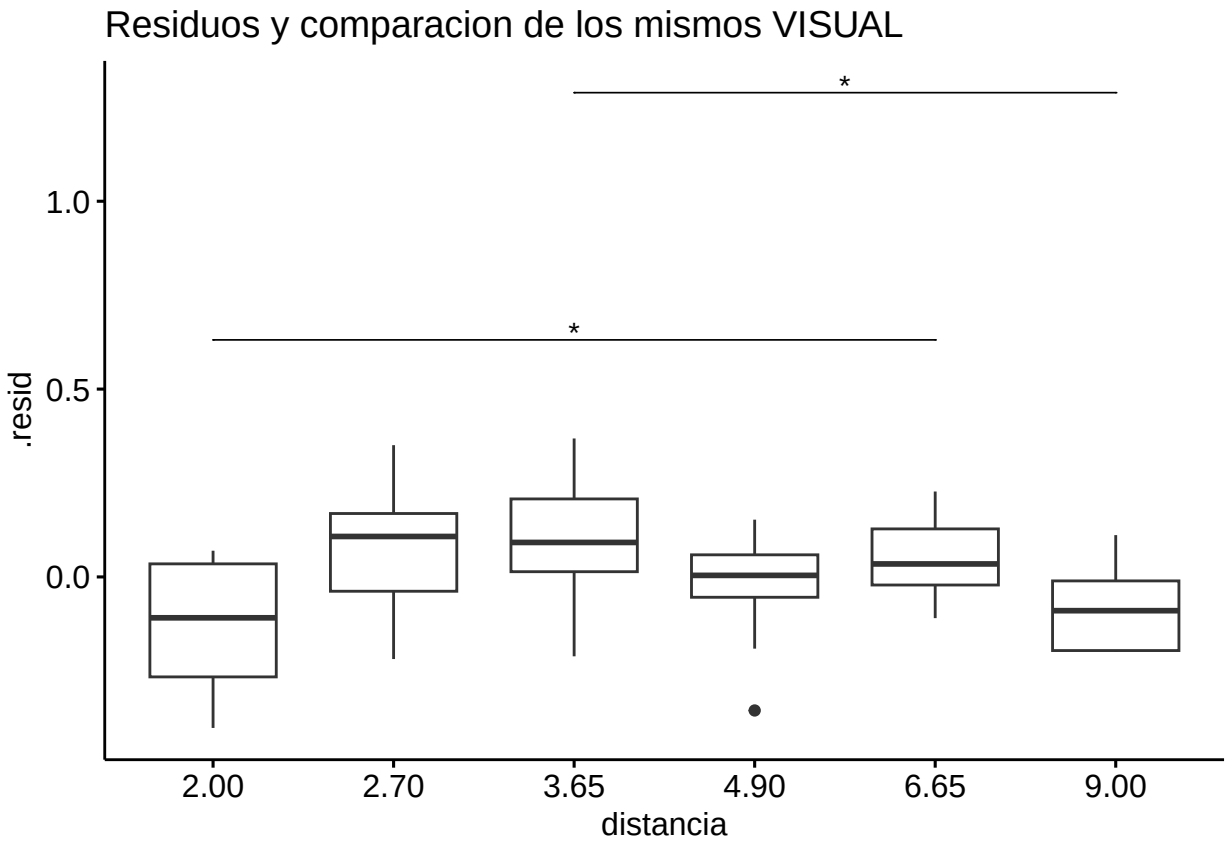
R squared placeholder



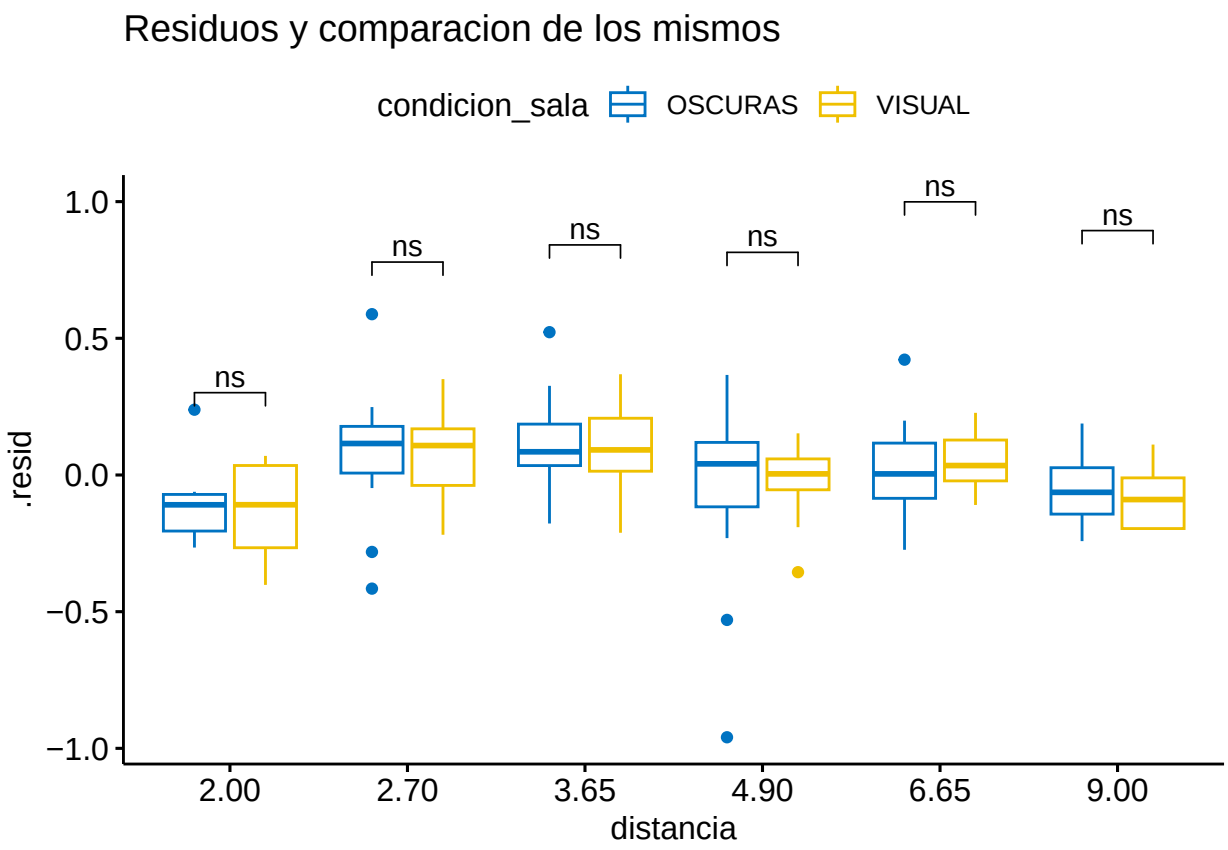
Analisis de residuos INTRA SUJETO




Residuos y comparacion de los mismos OSCURAS
*
0.5
0.0
−0.5
−1.0
.resid
2.00
2.70
3.65
4.90
6.65
9.00
distancia

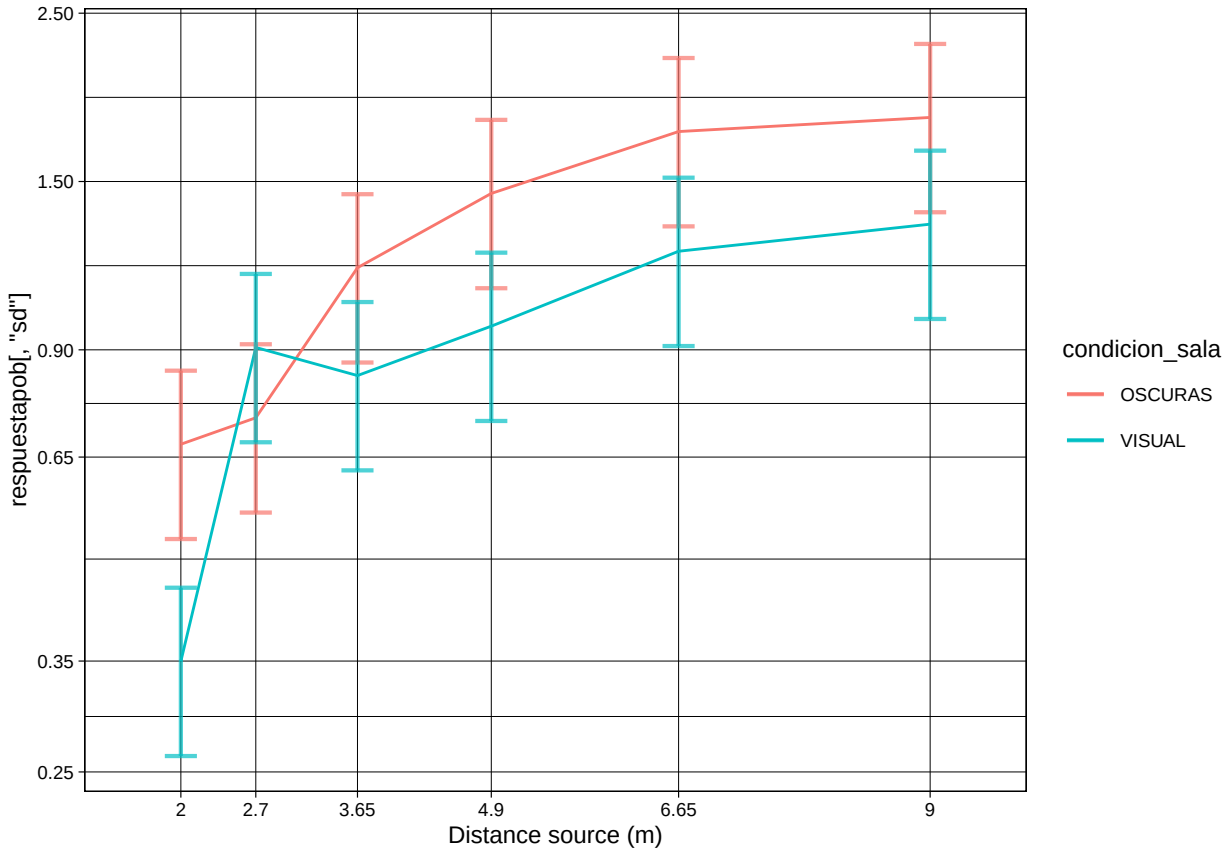

Residuos y comparacion de los mismos VISUAL
*
*
1.0
0.5
0.0
.resid
2.00
2.70
3.65
4.90
6.65
9.00
distancia

ENTRE BLOQUES

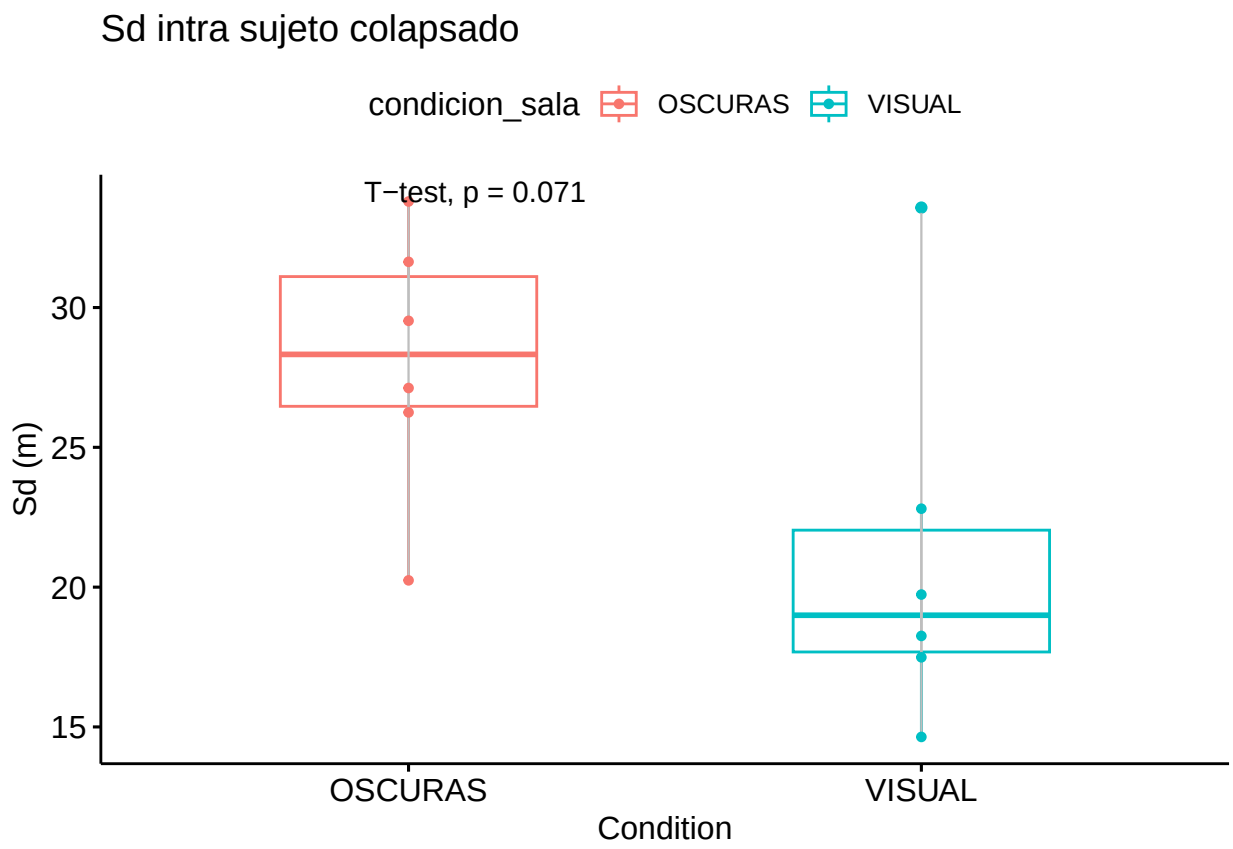


Variabilidad

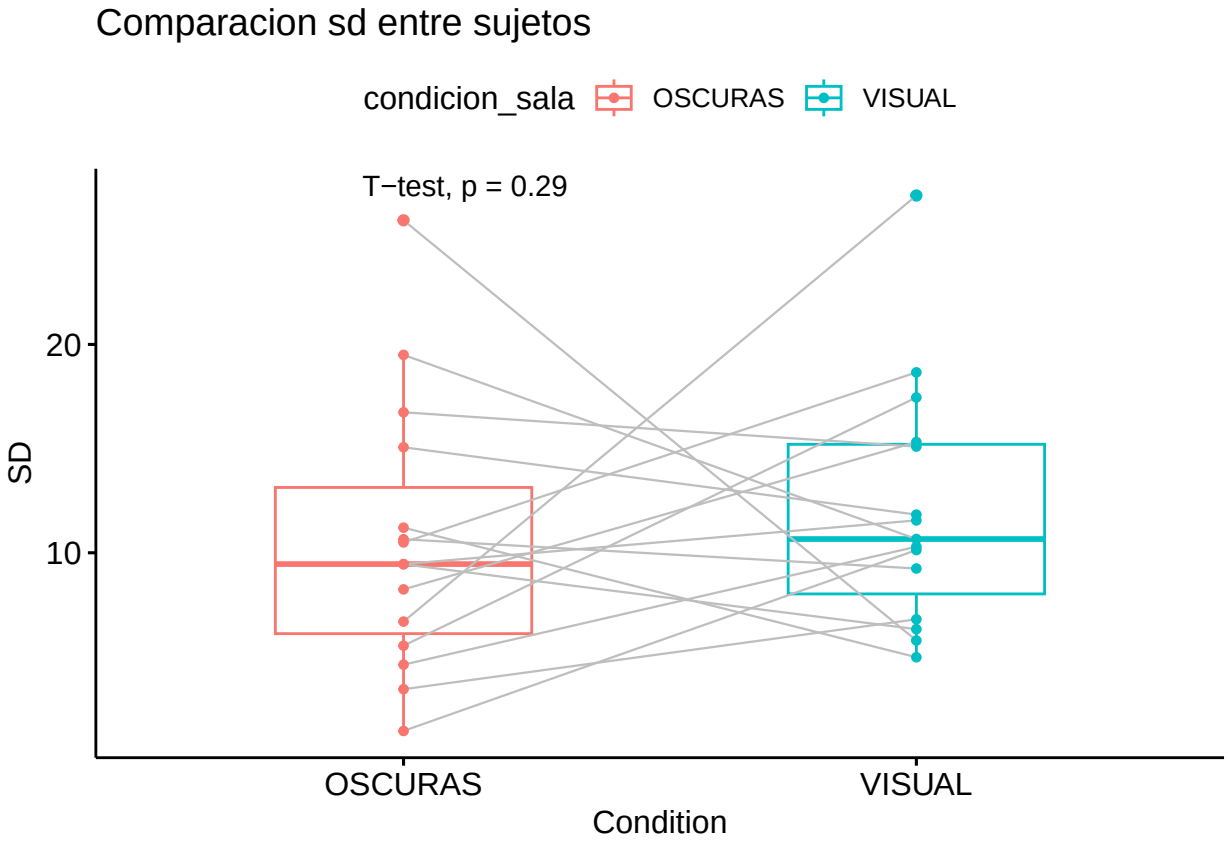
Intrasujeto En esta sección vamos a ver la variabilidad. Por un lado tenemos desviacion estandar intra



En esta sección vamos a ver la variabilidad. Por un lado tenemos desviacion estandar intra colapsada El de arriba



Entre bloques SD colapsada


Comparacion sd entre sujetos
condicion_sala
OSCURAS
VISUAL
T−test, p = 0.29
20
10
SD
OSCURAS
VISUAL
Condition