

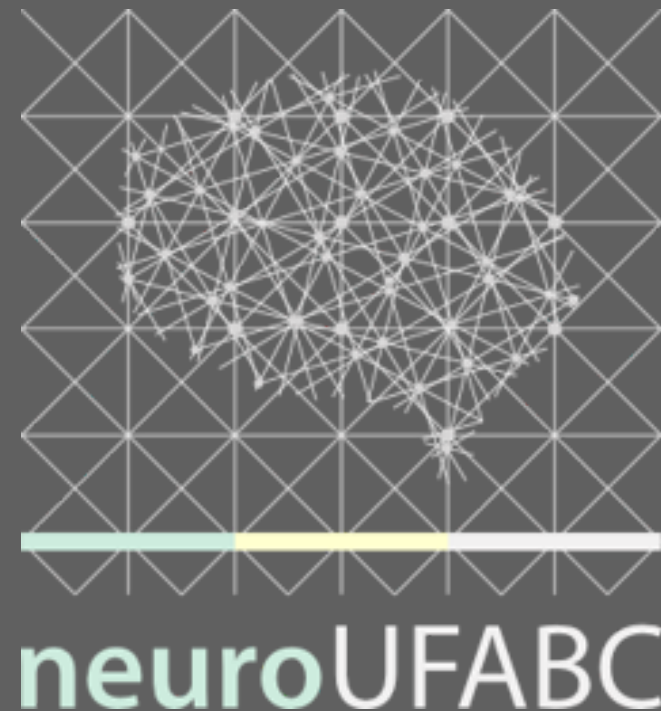
SCALE STEPS AND CENTS

Acoustic and abstract
factors involved in
intervallic perception

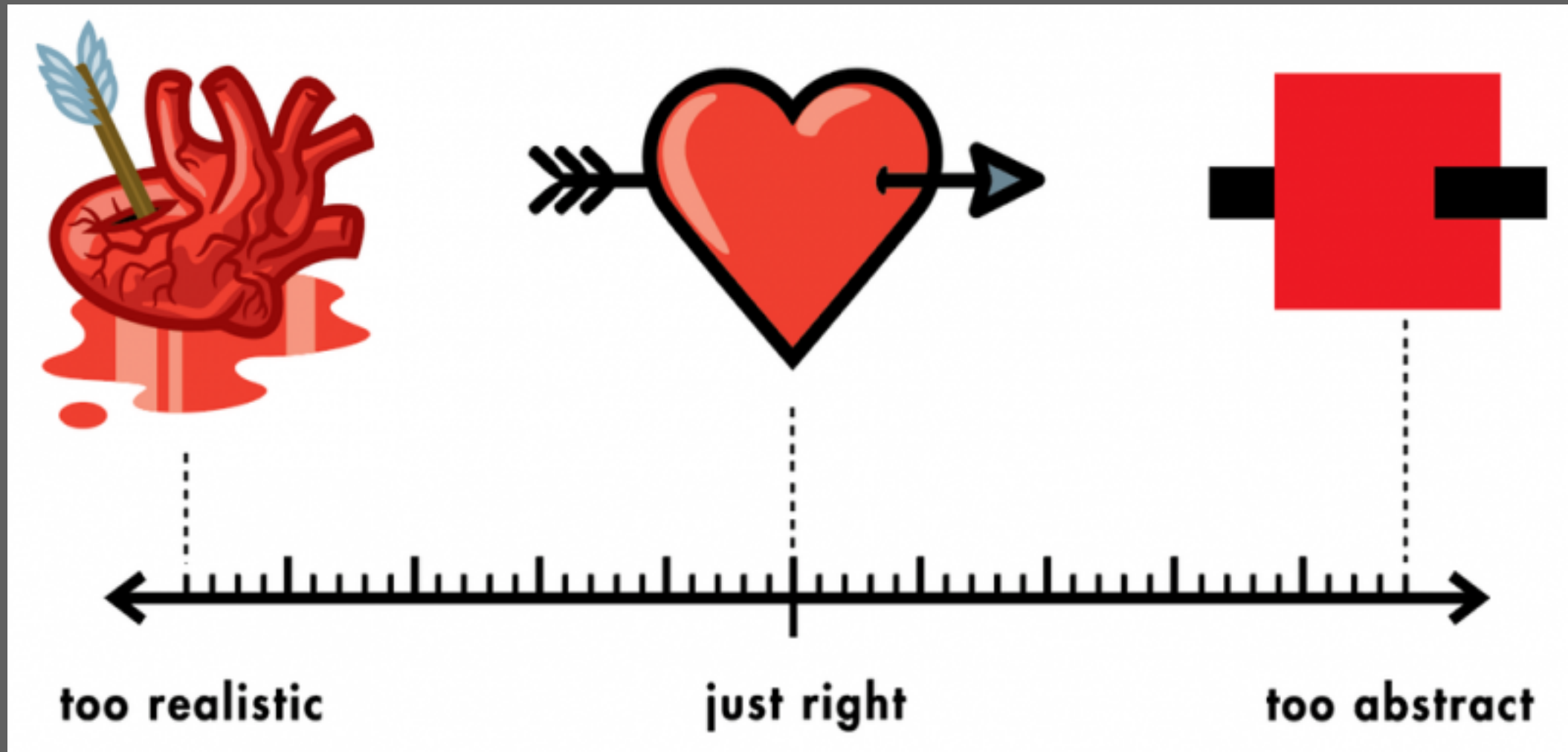
Pedro A. S. O. Neto

Orientadora

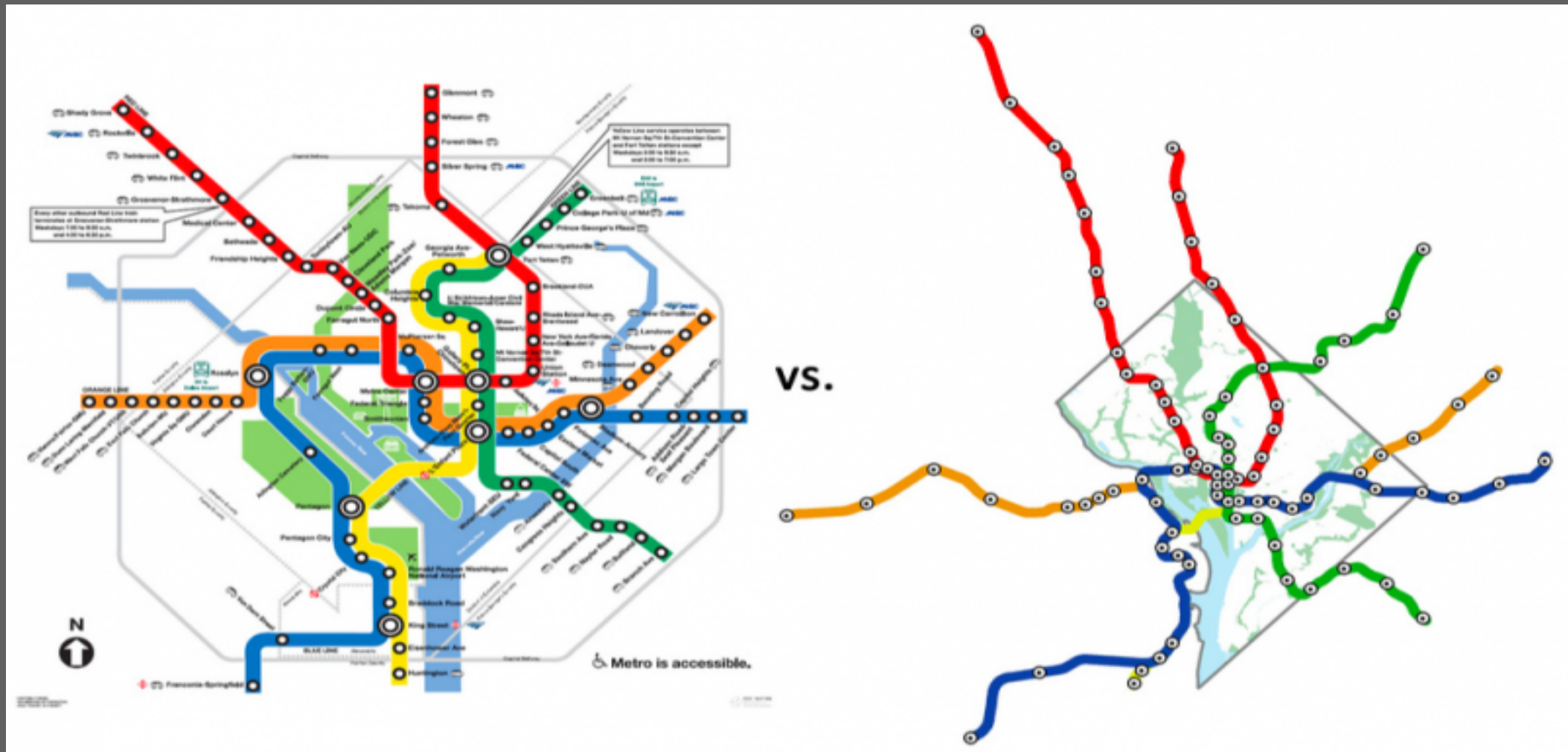
Patrícia M. Vanzella



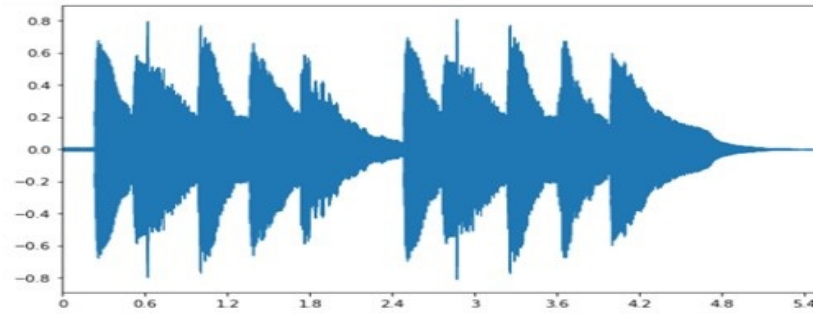
Abstração



Abstração



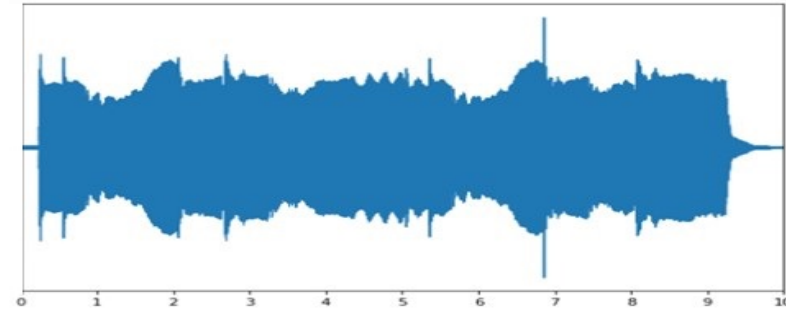
Abstração



Time

$$A = \begin{pmatrix} 261.62 & 0.29 \\ 261.62 & 0.09 \\ 293.66 & 0.37 \\ \vdots & \vdots \\ 349.22 & 2.51 \end{pmatrix}$$

=



Time

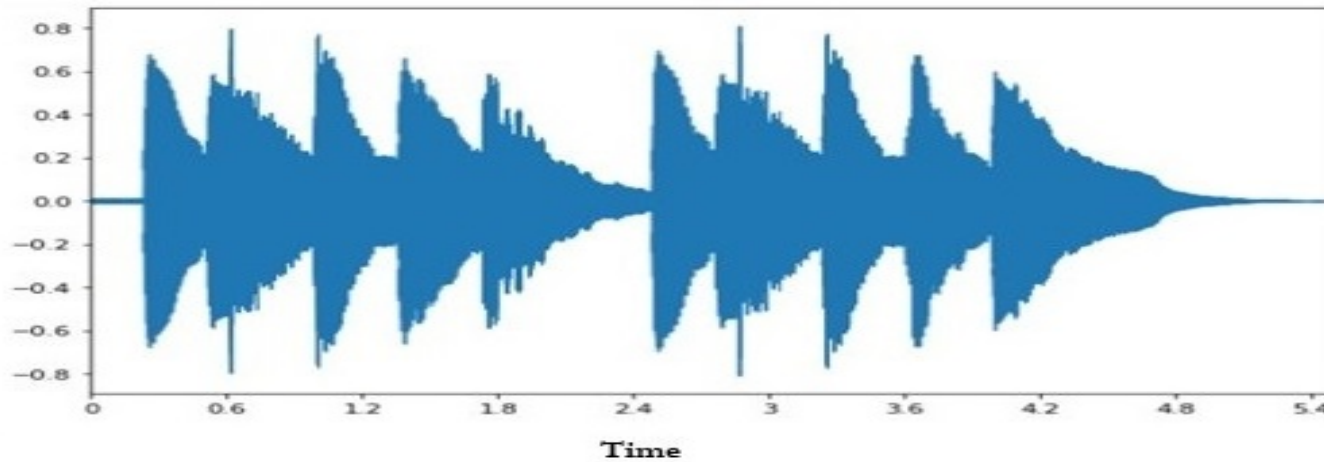
$$B = \begin{pmatrix} 311.12 & 0.33 \\ 311.12 & 0.33 \\ 349.22 & 1.32 \\ \vdots & \vdots \\ 415.30 & 0.65 \end{pmatrix}$$



HAPPY BIRTHDAY

Música, abstração e ciência cognitiva

Música, abstração e ciencia cognitiva

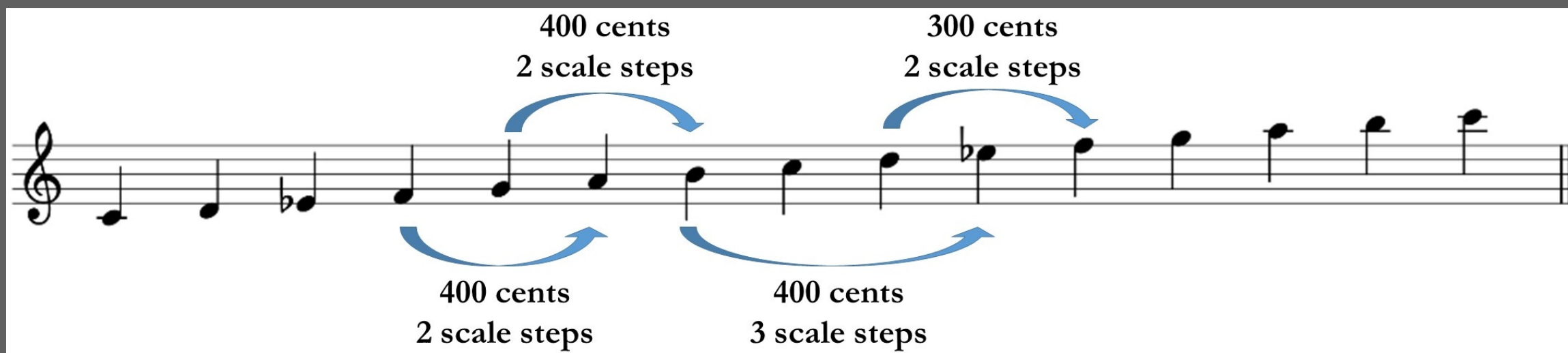


$$A = \begin{pmatrix} 261.62 & 0.29 \\ 261.62 & 0.47 \\ 293.66 & 0.37 \\ \vdots & \vdots \\ 349.22 & 2.51 \end{pmatrix}$$

$$Contour = \begin{pmatrix} 0 \\ + \\ - \\ \vdots \\ + \\ - \end{pmatrix}$$

$$Cent = \begin{pmatrix} 0 \\ +200 \\ -200 \\ \vdots \\ -100 \end{pmatrix}$$

Graus de escala ou cents?



Experimento 1

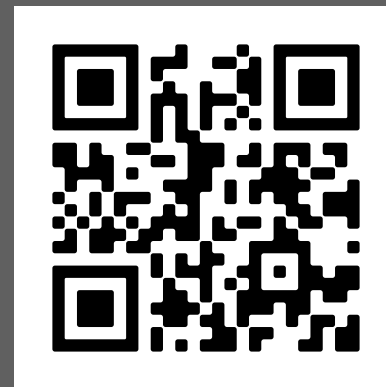
- Design
- Participantes
- Procedimientos

Estímulos

a. Tonal

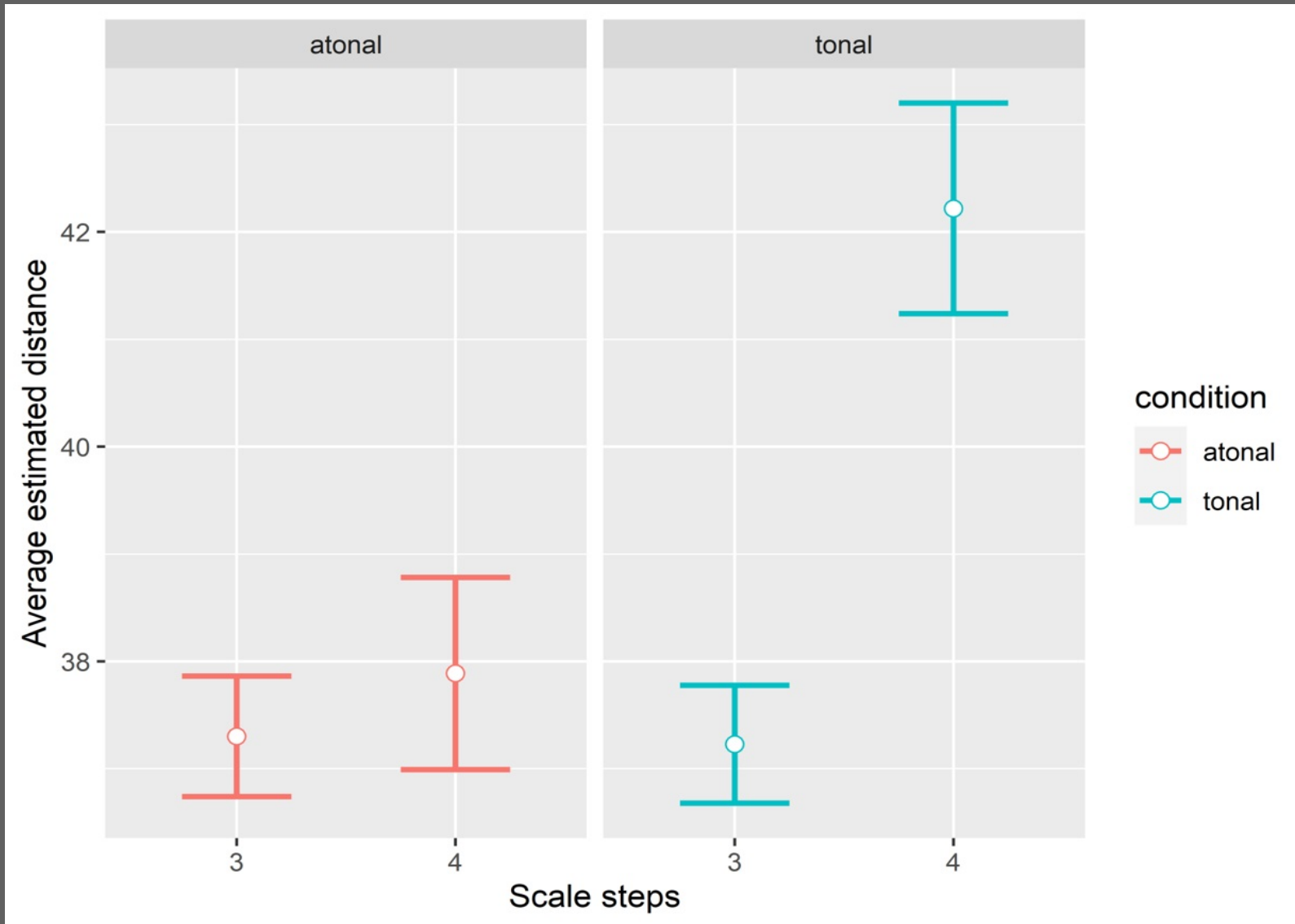


b. Atonal



Primers tonais e atonais

RESULTADOS



Experimento 2

- Design
- Participantes
- Procedimientos

Estímulos

TONAL



400
CENTS

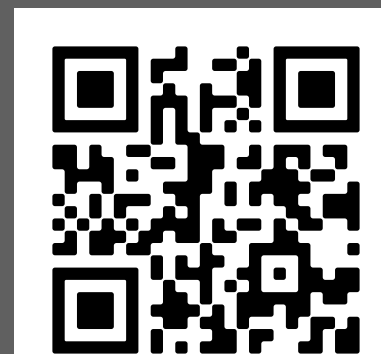
300
CENTS

ATONAL



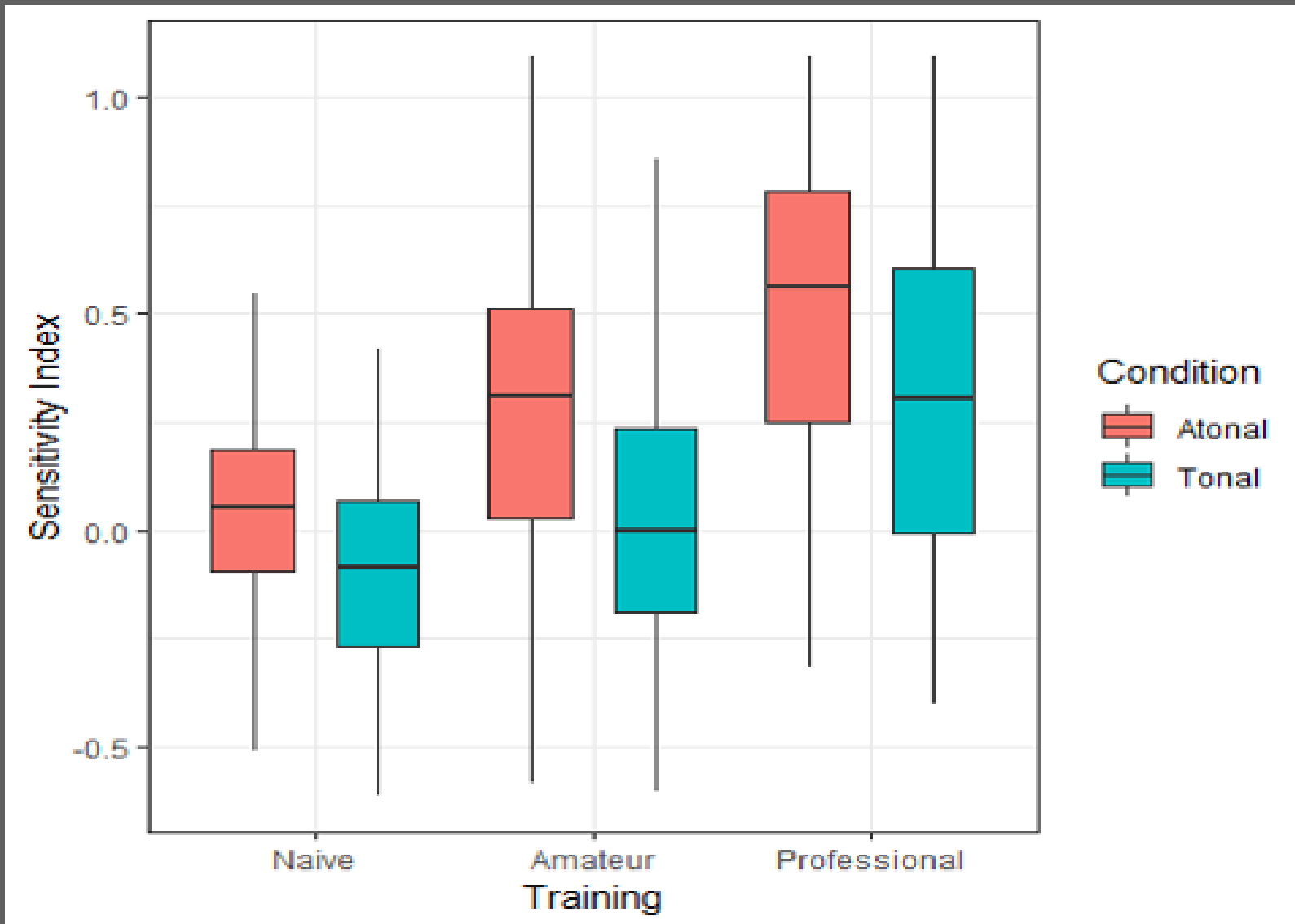
400
CENTS

300
CENTS



Blocos 1 e 2

RESULTADOS



Discussão e conclusões

- Graus de escala como descritores de intervalo
- Abstrações acústicas vs abstrações musicais
- Aplicações

Agradecimentos

