

Emotional Stroop task - Spanish

This is a Spanish Emotional Stroop task (EST) developed for a research project conducted in the neurocognitive laboratory at Ponce Health Sciences University. This project compares people with a history of suicidal behavior vs a control group (non-clinical population) on this and other tasks.

The EST was developed using Psychopy 3 (citation) builder but includes code components. It can't be run with Psychopy 2 because it uses Unicode characters (i.e., words with accents) and Psychopy crashes with this sort of stimuli or doesn't display it correctly. It includes practice and experiment trials.

The EST was translated from the extended Stroop task (includes instructions and practice trials) found in the demos that Psychopy provides. The materials were translated and the trial document (csv file) was adapted.

Practice trials

The EST includes 24 practice trials consisting of congruent word and colors. The words presented are azul, rojo, and verde (i.e., Spanish words for blue, red, and green) and are presented in colors blue, red, and green. Participants respond by pressing:

- f for red
- j for green
- "space bar" for blue

Practice trial's structure:

- instructions
- fixation cross for .5 sec
- blank screen for .5 sec

- the word is presented until a response is made
- participant makes a response with the keyboard (f, j, space bar)
- the participant receive feedback

Practice trials are organized into blocks of 6 words (two of each color) and blocks are presented randomly.

Experimental trials

There are 48 words from each valence (i.e., positive, negative, and neutral) for a total of 144 words. Each word is presented only once.

Experimental trial's structure:

- instructions
- fixation cross for .5 sec
- blank screen for .5 sec
- word is presented until response is made
- participant makes repines with the keyboard (f, j, space bar)

Technical details about blocks:

- Trials (stimuli) are organized into blocks to get semi-randomization:
 - 16 blocks
 - Each block has 9 trials: 3 words from each valence, with 1 word for each valence - color combination

The following table represents one block.

text	letterColor	corrAns	condition
positive1	blue	j	positive
negative1	blue	j	negative
neutral1	blue	j	neutral
positive2	green	space	positive
negative2	green	space	negative
neutral2	green	space	neutral
positive3	red	f	positive
negative3	red	f	negative
neutral3	red	f	neutral

- These blocks for randomization are organized into 4 large experimental blocks of 36 trials each.
- Participants are allowed 3 breaks to rest (one rest after completing every 36 trials. The participant continues by pressing a key.
- Conditions are balanced in terms of word length

Contact

If you have any questions don't hesitate to contact me at mbermonti@psm.edu. If you find any errors or bugs, please open an issue and I'll work on it as soon as possible.