ERP-Fix procedure

Participants were assigned a response mapping for the evaluation and categorization task in a counterbalanced way. Each participant did evaluation task (practice block, plus 4 experimental blocks) and then the categorization task (practice block, plus 2 experimental blocks).

1. Evaluation task
   1. Practice trials
      1. **Prime stimuli**
         * 10 Black faces, 10 White faces (different from faces presented later in experimental trials)
         * Presented so that fixation cross preceded forehead or between the eyes
      2. **Target stimuli**
         * Same as in experimental trials
      3. Trials

* **16 trials total**
  + 2 of each condition
  1. Experimental trials
     1. **Prime stimuli**
        + From Chicago Face Database (Ma, Correll, & Wittenbrink, 2015)
        + Images selected were >3 on prototypicality scale, categorized as the appropriate race by at least 80% of raters, and not have hair over forehead
        + 32 Black faces, 32 White faces
     2. **Target stimuli**
* 8 positive words, 8 negative words from Livingston & Brewer (2002)
  + *Vacation, love, joy, romance, paradise, beauty, success, smile, garbage, vomit, poison, sewage, pest, despair, cockroach, disgust*
  + Slightly visually degraded to make it harder to read
    1. Trials
       - **512 trials total (128 trials in each block)**
         * 64 of each condition

Black / eyes fixation / positive word

Black / forehead fixation / positive word

Black / eyes fixation / negative word

Black / forehead fixation / negative word

White / eyes fixation / positive word

White / forehead fixation / positive word

White / eyes fixation / negative word

White / forehead fixation / negative word

* + - * + Equal number of trials from each condition in each half, but not necessarily each block within each half (randomized within half, not block)
  1. **Trial timing**
     1. Fixation cross (in same position every time): Jittered (either 500, 700, or 900 ms)
     2. Prime stimulus: 310 ms
     3. ISI: 50 ms (SOA = 360 ms)
     4. Target stimulus: 200 ms
        + Response deadline from onset of target is 800 ms
     5. Mask: 600 ms
     6. Feedback if incorrect: 1000 ms (“TOO SLOW”)
     7. ITI: 600 ms

1. Categorization task
   1. Practice trials
      1. **Target stimuli**
         * 10 Black faces, 10 White faces (same as practice trials from eval task)
         * Presented so that fixation cross preceded forehead or between the eyes
      2. Trials

* **8 trials total**
  + 2 of each condition
  1. Experimental trials
     1. **Target stimuli**
        + Same as experimental trials from eval task
        + 32 Black faces, 32 White faces
     2. Trials
        + **256 trials total (128 trials in each block)**
          - 64 of each condition

Black / eyes fixation

Black / forehead fixation

White / eyes fixation

White / forehead fixation

* + - * + Equal number of trials from each condition in each half
  1. **Trial timing**
     1. Fixation cross (in same position every time): Jittered (either 500, 700, or 900 ms)
     2. Target stimulus: 270 ms
        1. Response deadline from onset of target is 800 ms
     3. Mask: 530 ms
     4. Feedback if incorrect: 1000 ms (“TOO SLOW”)
     5. ITI: 600 ms

1. Demographics questions
   1. What is your gender?

* 1 = female
* 2 = male
* 3 = other
  1. What is your age?
     + 1 = 18 years old
     + 2 = 19 years old
     + 3 = 20 years old
     + 4 = 21 years old
     + 5 = 22 years old
     + 6 = Other
  2. What is your ethnicity?
     + 1 = Hispanic or Latino
     + 2 = Not Hispanic or Latino
     + 3 = Other or choose not to answer
  3. What is your race?
     + 1 = American Indian / Alaska Native
     + 2 = Asian
     + 3 = Native Hawaiian or other Pacific Islander
     + 4 = Black or African American
     + 5 = White
     + 6 = More than one race
     + 7 = Unknown or choose not to answer
  4. In general, how attentive were you during the experiment?
     + 1 = Not at all
     + 2
     + 3 = Slightly
     + 4
     + 5 = Quite a bit
     + 6
     + 7 = Extremely
  5. In general, how hard did you try during the experiment?
     + 1 = Not at all
     + 2
     + 3 = Slightly
     + 4
     + 5 = Quite a bit
     + 6
     + 7 = Extremely

Following both computer tasks, electrode cap was taken off and participants were allowed to wash out their hair. Once they came back to the room, they completed the IMS/EMS questionnaire on Qualtrics.