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## PAM?? NA TVÁ?E

kategorie: Kognitivní testy  
předmět: Kognitivní systémy  
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*Komu zadáno:*

*Datum:*

## 1 Popis úlohy

This test is designed to assess the cognitive domain of secondary/ declarative memory. Subjects see a series of pictures of human faces constructed using a computer algorithm that assembles individual features into composites (similar to those used in construction of police identification sketches). The study phase involves viewing 20 faces for 3 seconds each, followed by a recognition phase of 20 trials in which each original face is paired with a distracter face, i.e., one randomly selected from a set that was not seen before. The subject presses a mouse button on the same side as the face appeared that he/she saw before. A new set of 20 faces is then given to the subject to remember and memory is tested in the same way, using a further set of 20 fresh distracter faces. There are 4 parallel forms of the test. Each form consist of 4 sets of 20 study faces with its own set of distracter items [2]. O rozpoznávání tváří více na: [1]

## 2 Detaily zadání

Vytvořit sadu úloh na rozpoznávání tváří, přičemž každá úloha bude sestávat ze sady obrazů tváří (užních) a následného určení mezi 2 tvářemi, která byla v trénovacím datasetu: The study phase involves viewing 20 faces for 3 seconds each, followed by a recognition phase of 20 trials in which each original face is paired with a distracter face, i.e., one randomly selected from a set that was not seen before. The subject presses a mouse button on the same side as the face appeared that he/she saw before. A new set of 20 faces is then given to the subject to remember and memory is tested in the same way, using a further set of 20 fresh distracter faces.

### Experiment Sequence

- Welcome and phased introduction – criterion of 1 correct response needed to proceed
- First study phase – 20 target stimuli
- First immediate recognition phase – 20 trials
- Second study phase – 20 new target stimuli
- Second immediate recognition phase – 20 trials
- End

### Response Mode

The subject indicates his choice of the face on the left or the right side of the screen by pressing the left or right button of the mouse. If he does not respond in the allotted time, this is a non-response. The tester moves the screen on during the introductory screens using the spacebar. Only the subject's choice responses to the faces require the mouse.

### Summary Variables

Percentage correct (immediate recall): 0 to 40/40, expressed as a percentage.

Percentage correct (delayed recognition): 0 to 40/40, expressed as a percentage.

## 2.1 Implementace do Psycheeg toolboxu

### Reference

- [1] <http://www.pnas.org/content/93/2/922.full.pdf>
- [2] Ashtari, M., Lencz, T., Bilder, R.M., Barr, W., Patel, M. (1998, June). Hippocampal Activations in a Face Encoding Task Using fMRI. Paper presented at the Fourth International Conference on Functional Mapping of the Human Brain, Montreal, Canada. [NeuroImage, 7, S808].