The main file that drives the experiment is MAINFACE.m. You should indicate that it is a practice unless you have the syncbox and response box plugged in.

**Summary of faces experiment**

There are 4 runs of trials.

**Runs 1 to 3 (identical)**

Number of trials

240

On each trial:

1. Central fixation.
2. Stimulus is shown for one second.
3. Wait for pulse from syncbox.

Stimuli

There are 10 different stimulus types:

1. Upright fearful faces (12 trials) –UP {1,:}
2. Upright Neutral faces (12 trials)-UP {2,:}
3. Inverted fearful faces (12 trials) INV {1,:}
4. Inverted neutral faces (12 trials) INV {2,:}
5. Inverted (and contrast inverted) fearful faces (12 trials) INVINV {1,:}
6. Inverted (and contrast inverted neutral faces (12 trials) INVINV {2,:}
7. Upright (and contrast inverted) fearful faces. (12 trials) UPINV {1,:}
8. Upright (and contrast inverted) neutral faces. (12 trials) UPINV {2,:}
9. Noise ‘fearful’ faces. (12 trials) NO{1,:}
10. Noise ‘neutral’ faces. (12 trials) NO{1,:}

= 120 trials

Stimuli are stored within Stimuli/FACESTIM.mat I have indicated the locations of these stimuli above. For instance Upright fearful faces are in the first row of STIMULI.UP. Each row of the cell has 12 models, each of which are presented once per run.

The remaining 120 trials are NULL trials, where no stimulus is shown (just the fixation).

The ordering of the trials is stored within /Conditions EventTable.mat (Column 1= trial number, column 2= expected time from first pulse, column 3= stimulus type- where zero is a null trial)

Task

On 24 of the 240 trials (random), the luminance of the fixation will change. They then have a 1 second window (i.e. whilst the stimulus is presented) to respond using the blue button on the response box.

**Run 4**

Number of trials

240

On each trial:

1. Central fixation.
2. Stimulus is shown for one second.
3. Wait for pulse from syncbox.

Stimuli

There are 2 different stimulus types:

1. Houses (60 trials) –HO
2. Faces (60 trials)-FA

= 120 trials

Stimuli are stored within Stimuli/FACESTIM.mat I have indicated the locations of these stimuli above. For instance Houses are stored within STIMULI.HO. Each row of the cell has 12 models, each of which are 5 times per run.

The remaining 120 trials are NULL trials, where no stimulus is shown (just the fixation).

The ordering of the trials is stored within /Conditions EventTable\_LOCAL.mat (Column 1= trial number, column 2= expected time from first pulse, column 3= stimulus type- where zero is a null trial)

Task

On 24 of the 240 trials (random), the luminance of the fixation will change. They then have a 1 second window (i.e. whilst the stimulus is presented) to respond using the blue button on the response box.

**Data requirements**

Need to store:

The trials that the luminance switches occur on

The timings that the button presses were made on.

The timing of when a pulse was received

The timing of when the stimulus was flipped to the screen.