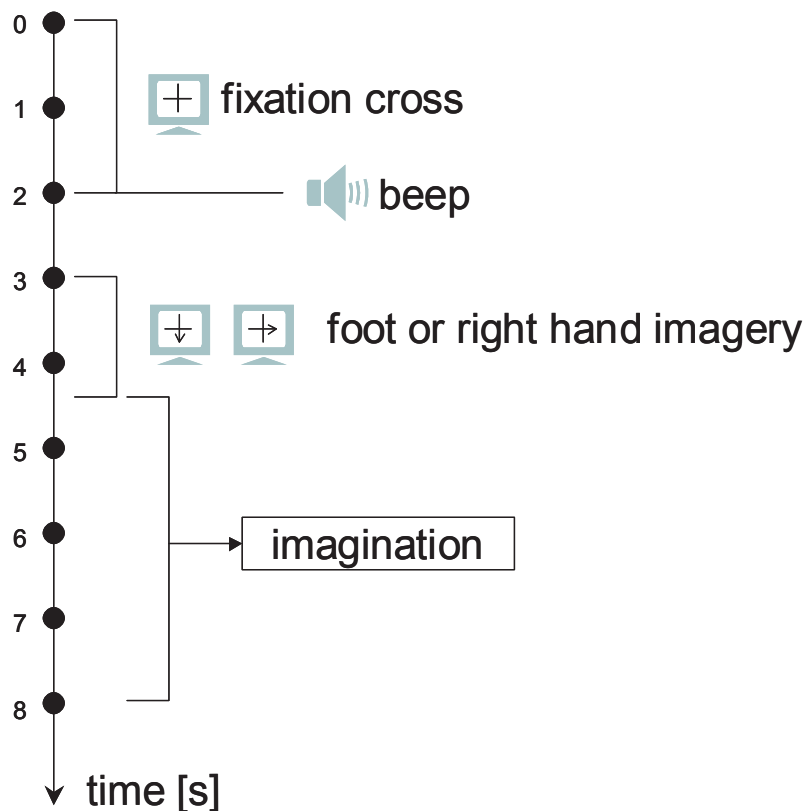


Movement Imagination

The figure shows the timing of one trial of the experiment. The subject sat in a comfortable armchair 150 cm in front of a computer-monitor and was instructed not to move and to keep both arms and feet relaxed and to maintain throughout the experiment the fixation at the center of the monitor. The experiment started with the display of a fixation cross that was shown in the center of a monitor. After two seconds a warning stimulus was given in form of a "beep". From second 3 until 4.25 an arrow (cue stimulus), pointing down or to the right, was shown on the monitor. The subject was instructed to imagine a foot or right hand movement, depending on the direction of the arrow until second 8.

One trial lasted 8 seconds and the time between two trials was randomized in a range of 0.5 to 2.5 seconds to avoid adaptation. The subject performed 4 runs consisting each of 40 trials.



Path: C:\Program Files\gtec\gBSanalyze\testdata\movement

Files: foot.bkr
right.bkr

Channels: C3 - right hand movement representation
Cz - foot movement representation

Derivation: Local Average Reference

Right and Left Hand Movement Imagination

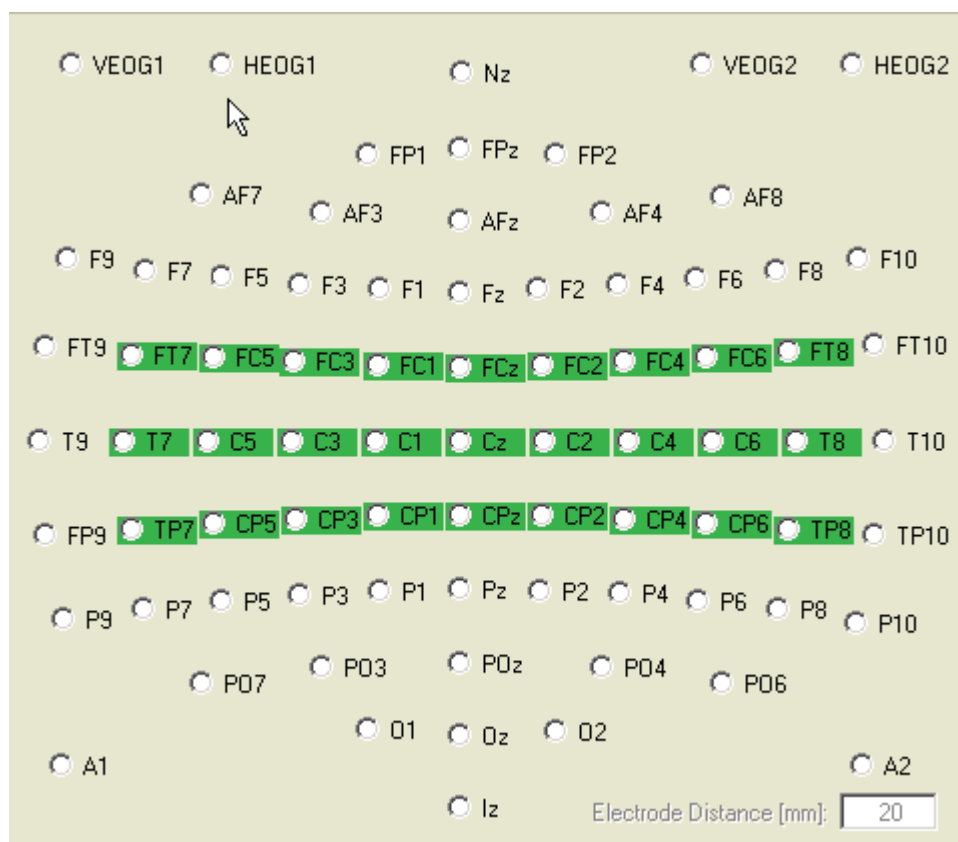
The timing of the experiment is described under section Movement Imagination. But the subject was instructed to imagine a right hand movement if the arrow pointed to the right side and a left hand movement if the arrow pointed to the left side.

Path: C:\Program Files\gtec\gBSanalyze\testdata\RightLeftImagination

Files: run1234.mat
 run1234_geom.mat

Montage: C:\Program Files\gtec\gBSanalyze\testdata\montage\ch271.mat

C3 - right hand movement representation area
C4 - left hand movement representation area



Derivation: referenced to the right ear

Index Finger Movement

The subject sat in a comfortable armchair and was instructed to move the right index finger every 10 seconds. A movement sensor was attached to the right finger and allowed to register movement on-set and off-set. The data presented here is movement off-set triggered with 4 seconds a priori movement and 4 seconds after movement.

Path: C:\Program Files\gtec\gBSanalyze\testdata\indexfingermovement

Files: finger.bkr

Montage: Channel 11 is C3 - right hand movement representation
 Channel 14 is Cz - foot movement representation
 Channel 17 is C4 - left hand movement representation

Derivation: small Laplacian

Evoked Potential

The subject sat in a comfortable armchair and the medianus nerve of the right hand was electrically stimulated. 800 trials with 500 ms length are recorded.

Path: C:\Program Files\gtec\gBSanalyze\testdata\EP

Files: session1.bkr

Montage: Channel 1 anterior to C3
Channel 2 posterior to C3
Channel 3 anterior to Cz
Channel 4 posterior to Cz

Derivation: referenced to the right ear