# Meeting Notes / 2 Feb

## fMRI Analysis

TAFKAP for the analysis (<https://github.com/jeheelab/TAFKAP>). / I will try to learn how to access their dataset.

Only retinotopy for the pilot (no localization)? / I will check the localization for hMT and I will check how people localize frontal regions (GLM vs. Anatomy).

## fMRI Stimuli

4 motion directions

Coherence levels (3x3, non-uniform design potentially)? / We will decide after psychophysics.

Two motion direction trials shown in two different hemispheres, always same order for presentation (for example: L first trial, R second trial).

60 Hz refresh rate, maximum 18 visual degree stimuli.

Minimum change in the screen if necessary gradual changes, not transient (response ring never disappears?)

Confidence choice screen? / We will decide it later (precaution for motor expectations).

## fMRI Procedure

Potentially: Single Trial: 1 s (presentation), 2 s (response), 1 s (interval), 1 s (presentation), 2 s (response), 4 s (interval), 1 s (confidence choice), 4 s (trial interval). Total 15 seconds for a trial.

Two sessions, 1 hour and 20 minutes time for trial (rest is anatomical scans and retinotopy)

## Next steps

Psychophysical data and preliminary analysis

Details of fMRI stimuli and procedure (power analysis based on psychophysics)

Getting familiar with TAFKAP using the existing data (https://data.donders.ru.nl/collections/di/dccn/DSC\_3019005.01\_365?0)

Pilot experiments with the fMRI