

Please find below the variable descriptions for the ChallengeData. Reminder, we are using the RLWM task described in the [Collins et al. 2017 Biol Psych article](#).

'subID' – the subject ID

'trial' – the trial number (note that several rows in the matrix are the SAME trial – the mask activations etc. differ)

'RT' – reaction time for that trial

'QRL' – the modelled QRL value from the RLWM model; you prob won't need this

'QWM' – modelled QWM value

'Reward' – reward for that trial: 0, 1 or 2

'Block' – block (there are variable #blocks per sub)

'set size' – this can vary from 2 to 5

'stim seq' – what stimulus did they see

'choice' – what action did they choose

'winnings' – how much reward have they had up to that point

'correctaction' – what action should they have chosen

'number_prev_corr' – how many previous correct actions?

'Correct' – were they correct or wrong (1/0 value)

'probReward' – how likely is this stim to reward, if correct (0.8, 0.5, or 0.2)

'subGroup' – SZ or HC?

'maskFor' – what variable was used to make the EEG mask (set size, delay, rt etc.)

'maskGroup' – what group was the average mask computed over? (all, HC, SZ)

'Activations' – average activations (Michael described these)

Some useful numeric codes in the data.

SUBJECT GROUP CODE: SZ – 111, HC – 222, ALL – 333

'MaskFor' code (e.g. what var was used for the mask) Set Size – 11, Delay – 22, Fdbk – 33, Rt – 44, Cseq – 55

'maskGroup' – was the mask averaged across all (333), HCs (222) or SZs (111)