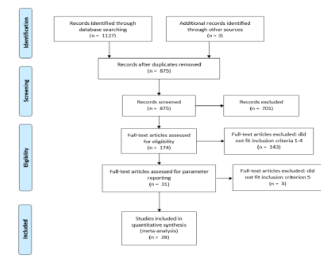
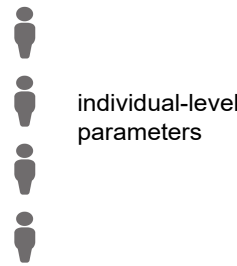


1. Systematic search

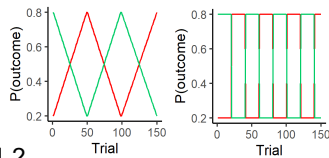


2. Extract parameters of winning model from papers



3. Conventional meta-analysis

4. For each paper, feed parameters from all individuals into benchmarking tasks, using the winning model from that particular paper to generate choices



5. Fit a variety of models to the data using several estimation approaches

$$Q_{t+1}(a_t) = Q_t(a_t) + \alpha * \delta_t(a_t)$$
$$\delta_t = outcome_t - Q_t(a_t)$$

	VBA	MAP
1 prior	x	x
Group priors	x	x

choices = 2 2 2 1 2 1 1 2  
choices = 1 1 2 1 2 1 2 1  
choices = 2 2 1 2 2 1 2 2  
choices = 2 2 2 1 2 1 1 2  
choices = 1 1 2 1 2 1 2 1  
choices = 2 2 1 2 2 1 2 2  
choices = 2 2 2 1 2 1 1 2  
choices = 1 1 2 1 2 1 2 1  
choices = 2 2 1 2 2 1 2 2

6. Bayesian Model Averaging: Model weights calculated and parameters extracted

Participant number	Learning rate	Sensitivity
1	0.02	1.3
2	0.34	0.94
3	0.23	1.08
4	0.11	1.4

7. Compare parameter-wise effect size across estimation approaches

