

What can we infer about mental model updating through eye movements?

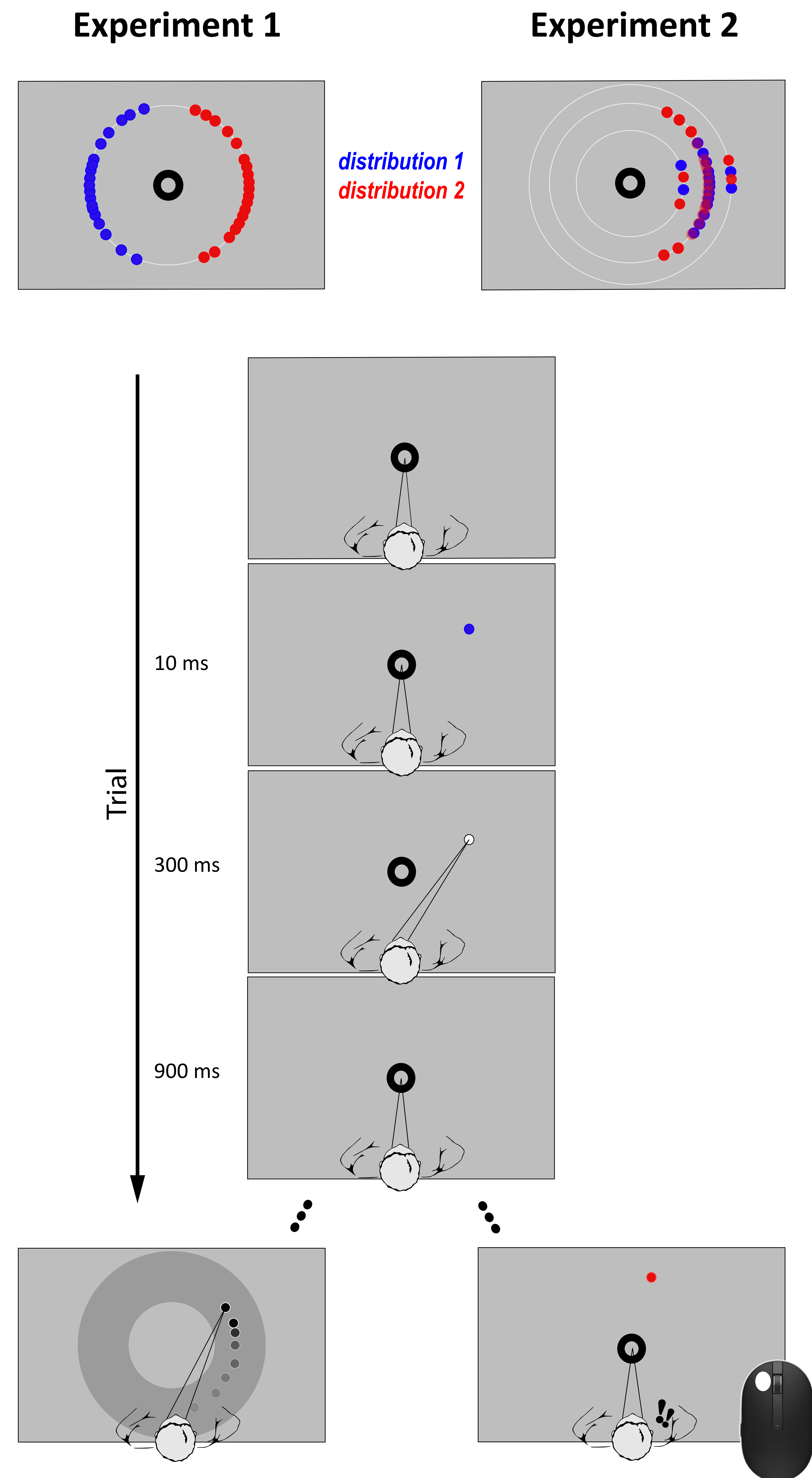
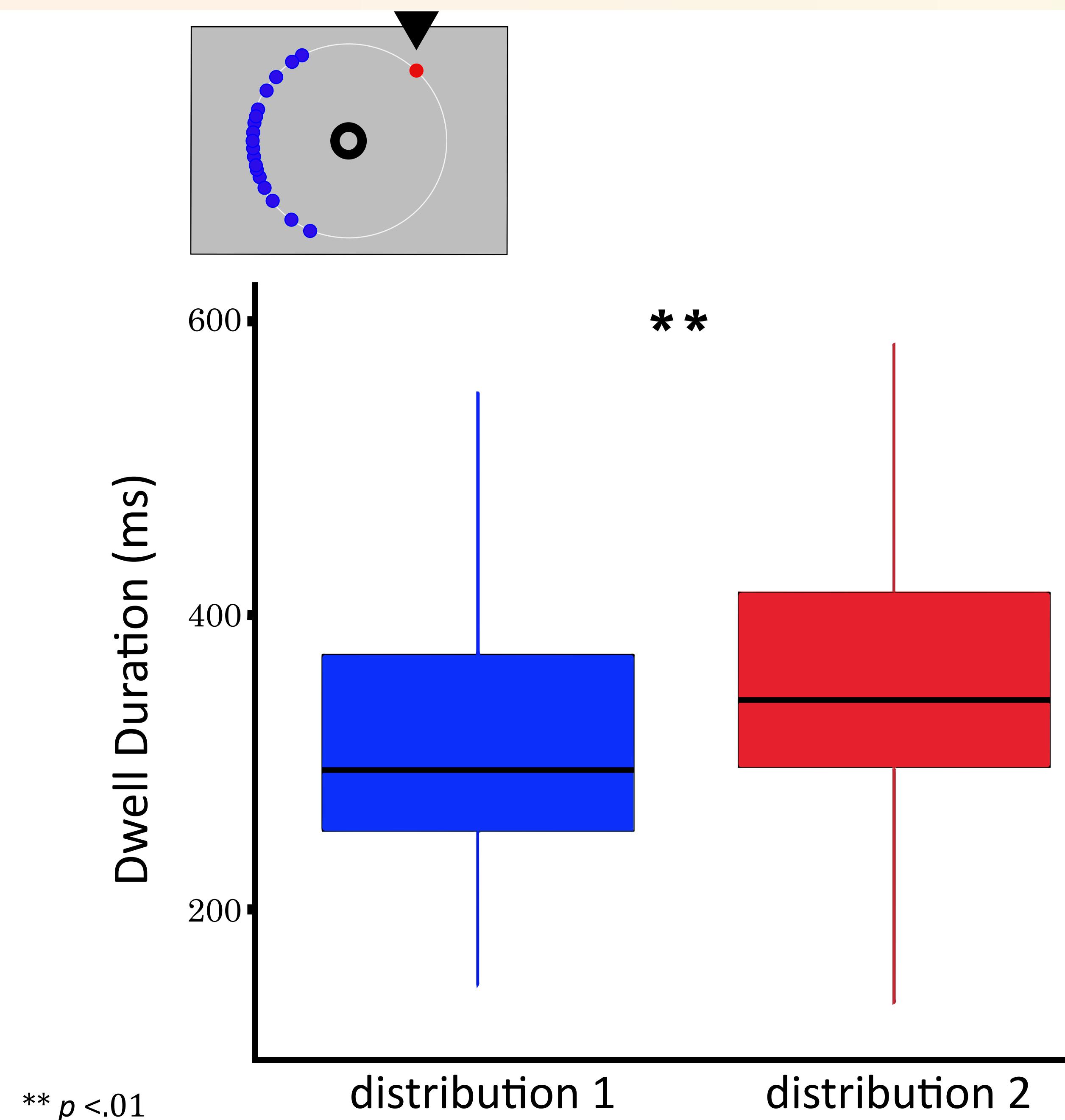
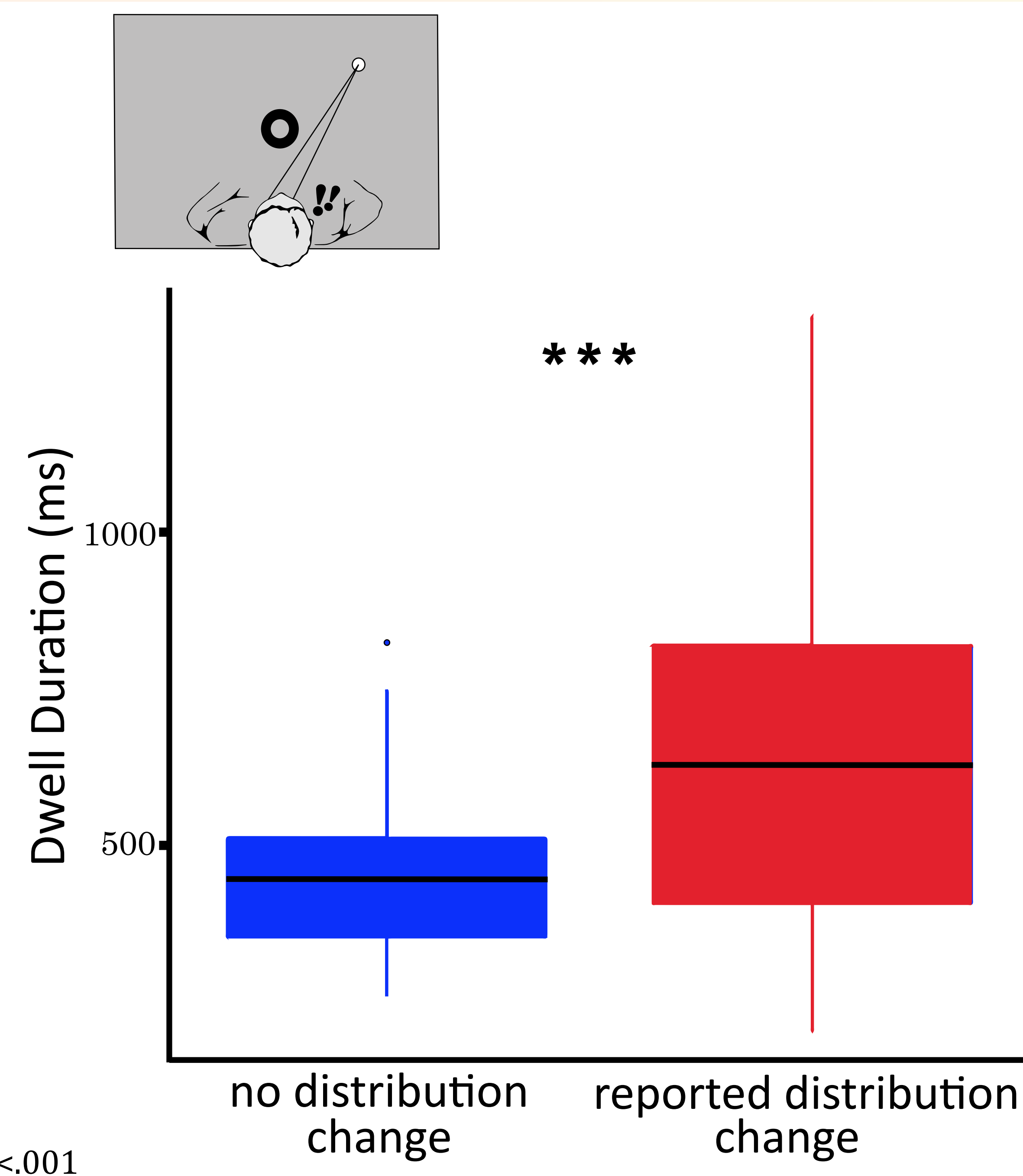


Figure 1. Participants learned distributions of target dots.

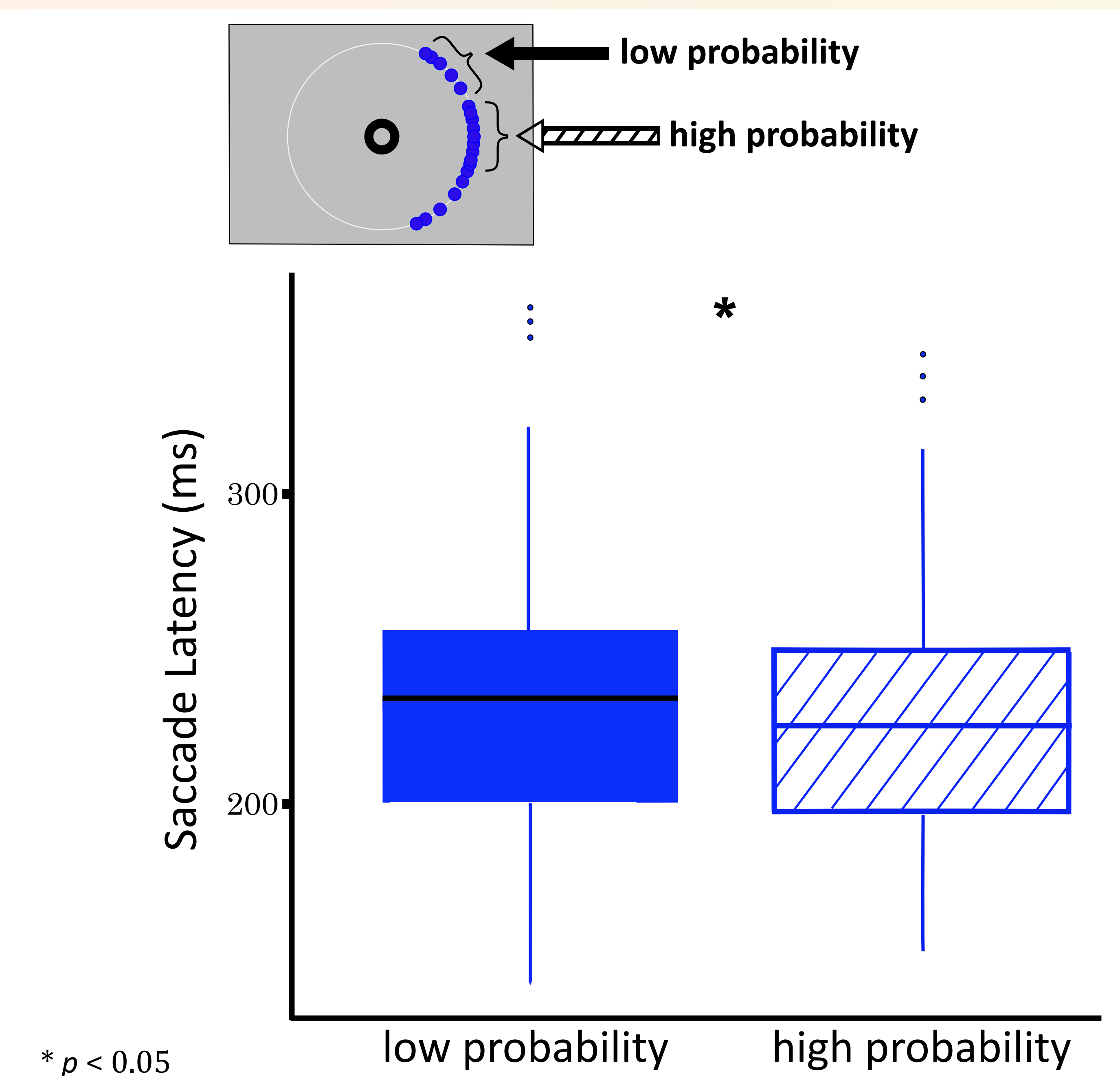
Unexpected low probability occurrences are surprising



Surprise leads to longer dwell duration



Faster saccades to higher spatial probabilities



Saccade planning is responsive to target probabilities

