INTRODUCTION

Behavioral flexibility, the ability to change behavior in response to the changing environment, was studied with a reversal paradigm. Experiment 1 used a mid-session reversal.

EXPERIMENT 1

METHOD

VARIABLE & 2 REVERSAL LOCATIONS

Behavioral flexibility, the ability to change behavior in response to the changing environment, was studied with a reversal paradigm. Experiment 1 used a mid-session reversal.

RESULTS

EXPERIMENT 2A: VARIABLE & 2 REVERSAL LOCATIONS

METHOD

Using 5 different reversal locations (10, 25, 40, 55, & 70), rats were given single variable reversal and 2-reversal sessions randomly intermixed across sessions.

Single Variable Reversal: A single reversal could occur after Trial 10, 25, 40, 55 or 70
10 sessions

2-Reversal Sessions: For example, a reversal could occur after Trials 10 and 55
10 sessions

RESULTS

DISCUSSION

• Rats use the most optimal information to maximize reinforcement, whereas pigeons seem to rely on the passage of time.

• When given a variable point of the reversal or multiple reversals per session, rats are able to adjust to changing contingency by using the outcome of the preceding trial(s) as a cue.

• Evidence of win-stay/lose-shift strategy in rats

REFERENCES


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