**Motor Reaction Time Task**

Unpublished

**Purpose:**

The goal of this task is to assess ability to react quickly to stimuli. In this program, the duration of time to respond between two boxes presented on opposing ends of the screen titrates based on performance. Successive corrects cause the delay to shrink and successive incorrects to grow by 20%. This allows the pig to remain motivated as food continues to be delivered. The most difficult are the top to bottom. Right now, they are presented randomly, but a fixed set would probably improve ability to dissociate the easier from more difficult.

The primary DV is the minimum delay obtained and the average delay through the session. An FR-1 is used because of the rapid nature of the response.

On start of a trial, the box will be presented in one of the 4 corners. Every 3 trials, the limited hold either increases or decreases based on the last 3 responses. This will continue up until the maximum number of trials.

**Variables**

Multiple variables can be set in this procedure. Most relevant are:

* **Max reinforcers** – number before task ends on its own. I think this is actually trials, not reinforcers…
* **Limited Hold** – starting point for the limited hold between. Can leave at default unless wanting to drastically change difficulty.
* **Extra punisher duration** – adds time onto delay when delay increases.