DATA published in:

*Hesse, Kangur & Hunt (2020): “Decision making in slow and rapid reaching: Sacrificing success to minimize effort”, Cognition*

**Data for Experiment 3:**

[Visuomotor Choice task]

**Files:**

**Baseline Task**

* “Exp3\_Baseline\_Trajectories\_FDA”: contains reaction time, movement time data and normalized trajectory data for the 72 baseline trials for all N=20 participants:

1st column*: subject number,* 2nd column*: trial number,* 3rd column: *“rand” (for random presentation),* 4th column: *position of target* (number referring to target distance and letter referring to target side: “R”=Right, “L”=Left), 5th column: *reaction time,* 6th column: *movement time,* columns 7-206: *vertical (y-position) of index finger marker along the normalized trajectory* (not used in MS), columns 207-406: *lateral (x-position) of index finger marker along the normalized trajectory* (see MS for more information).
Note that lateral position data were multiplied by (-1) to mark deviations to the right as positive numbers and deviations to the left as negative numbers in the MS

Data presented in MS: Section 4.2.1/ Figure 14A

* “Exp3\_Baseline\_MT\_and\_StartDirection”: contains reaction time, movement time, and start direction data for the 72 baseline trials for all N=20 participants:

1st column*: subject number,* 2nd column*: trial number,* 3rd column: *“rand” (for random presentation),* 4th column: *position of target* (number referring to target distance and letter referring to target side: “R”=Right, “L”=Left), 5th column: *reaction time,* 6th column: *movement time,* 7th column: *start angle in degree.*

Note that start direction data were multiplied by (-1) to mark start angles to the right as positive numbers and angles to the left as negative numbers in the MS

Data presented in MS: Section 4.2.1/ Figure 12 and Figure 16 (Movement times)

 Section 4.2.2/ Figure 15 (Start Directions)

**Decision Task**

* “Exp3\_DecisionTask\_ErrorTrials\_Classification\_StartDirection”: contains error type classification, and start direction data for all errors made in decision trials by all N=20 participants:

1st column*: subject number,* 2nd column*: trial number,* 3rd column: *error count* – running total, 4th column: *trial type* (with first number-letter combination referring to the side and distance of the final target and the second number-letter combination indicating the 2nd initial LED light “R”=Right, “L”=Left), 5th column: Error type (PosCorr = time-out error, PosError= position error, Unclassified), 6th column: *start angle in degree.*

Note that start direction data were multiplied by (-1) to mark start angles to the right as positive numbers and angles to the left as negative numbers in the MS

Data presented in MS: Section 4.2.2/ Figures 13/15/16

* “Exp3\_DecisionTask\_ErrorTrials\_Trajectories\_FDA”: contains normalized trajectory data for all error trials for all N=20 participants: - note that error trials that could not be classified in either position or time-out errors are not included in this file.

1st column*: subject number,* 2nd column*: trial number,* 3rd column: *error count* – running total, 4th column: *trial type* (with first number-letter combination referring to the side and distance of the final target and the second number-letter combination indicating the 2nd initial LED light “R”=Right, “L”=Left), 5th column: Error classification (PosCorr=time out error; PosError = position error); columns 6-205: *vertical (y-position) of index finger marker along the normalized trajectory* (not used in MS), columns 206-405: *lateral (x-position) of index finger marker along the normalized trajectory* (see MS for more information).
Note that lateral position data were multiplied by (-1) to mark deviations to the right as positive numbers and deviations to the left as negative numbers in the MS

Data presented in MS: Section 4.2.2/ Figure 14

* “Exp3\_DecisionTask\_CorrectTrials\_MT”: contains movement times for all correct trials in the decision task of all N=20 participants (used to calculate total number of trials and error percentages):

1st column*: subject number,* 2nd column*: trial number,* 3rd column: *trial type* (with first number-letter combination referring to the side and distance of the final target and the second number-letter combination indicating the 2nd initial LED light “R”=Right, “L”=Left), 4th column: *movement time.*

Data presented in MS: Section 4.2.2 / Figures 13