Uncovering ‘format’

A simple motor task

Perception to action

Conclusions

Motor reps. use polar coords!
As in purely visual tasks, polar coordinates may support spatial representation for purely motor tasks. However, this depends on the kind of haptic information participants receive.

Cross-modal task inconclusive
We failed to see a clear pattern of error correlations when participants translated spatial information from perception to action. This may suggest that these processes do not rely on a common coordinate, or that there were limitations to this design.

Future directions...
We’d like to try out other versions of the second experiment to see if we might observe cleaner results. For example, we’d like to test a version of this setup that doesn’t depend so much on how participants interpret the depth of the display.

To find out more...
You can find a copy of this poster at: https://bit.ly/3vMlhDp
Or email with questions: sami.yousif@yale.edu