**CHAMP fMRI SND repository index**

Behavioral data CHAMP fMRI

Data from neurotypical adults

Baseline = no rotation (black-black); n, number of trials

All rotations = pooled complex trials

Blue = complex 1 (black-blue)

Red = complex 2 (black-red)

Yellow = complex 3 (black-yellow)

Latency (s, seconds) = time from trial start to first button (black)

Duration = time from first button (black) to second button (black/blue/red/yellow)

M, mean

SD, standard deviation

Contrast files

Pilot MR data from one neurotypical adult, showing BOLD activation*-*based *t*-contrasts for effects of interest (see below)

Pilot\_t-contrast\_1 = Preparation stage Execute vs Observation

Pilot\_t-contrast\_2 = Execute Complex vs Baseline

Pilot\_t-contrast\_3 = Observation Complex vs Baseline

Note: the files are in Neuroimaging Informatics Technology Initiative (NIfTI) format, which is the standard format for MR data. The .nii files can be opened and viewed using the free software MRIcron (<https://www.nitrc.org/frs/?group_id=152>)

For further information: <https://www.medrxiv.org/content/10.1101/2023.12.10.23299792v1>