**Information on Data shared from:**

“Peripheral Visual Cues Contribute to the Perception of Object Movement During Self-Movement”

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**High level Summary**

Data from 4 experimental studies is organized in Folder 1. Below we outline the format of data in each csv file.

Experimental Code for the 4 experiments in provided in Folder 2. Below we explain some necessary requirements for use of this code.

**Folder 1: Experiment Data**

**Filename: Experiment 1 Data**

Data for Experiment 1.

participant – participant number

trial - Trial Number

Exp/Con - Indicates if the flow stimulus is expanding (1) or contracting (2)

t\_loc - target location

t\_ecc - target eccentricity

t\_wait - target wait time

t\_dur - target duration

t\_speed - target speed

selfmotion\_speed - self-motion speed

flow\_radius - radius of the flow

radius\_width - width of the flow band

raw\_response\_angle - target trajectory response from participant

trajectory\_tilt – target trajectory tilt

**Filename: Experiment 2 Data**

Data for Experiment 2.

participant – participant number

condition – experimental condition (Near, Far, Combined)

trial - Trial number

Exp/Con Indicates if the flow stimulus is expanding (1) or contracting (2)

t\_loc - target location

t\_ecc - target eccentricity

t\_wait - target wait time

t\_dur - target duration

t\_speed - target speed

selfmotion\_speed - self-motion speed

raw\_response\_angle - target trajectory response from participant

trajectory\_tilt – target trajectory tilt

**Filename: Experiment S1 Data**

Data for Supplementary Experiment S1.

Participant – participant number

Flow\_condition – indicates the flow condition (Left\_Right, Above\_Below, Full)

trial - Trial number

Exp/Con Indicates if the flow stimulus is expanding (1) or contracting (2)

t\_loc - target location

t\_ecc - target eccentricity

t\_wait - target wait time

t\_dur - target duration

t\_speed - target speed

selfmotion\_speed - self-motion speed

raw\_response\_angle - target trajectory response from participant

trajectory\_tilt – target trajectory tilt

**Filename: Experiment S2 Data**

Data for Supplementary Experiment S2.

trial - Trial number

Exp/Con Indicates if the flow stimulus is expanding (1) or contracting (2)

TestSpeed - speed of the test stimulus

selfmotion\_speed - self-motion speed

order - whether the reference stimulus was presented in the first or second interval

Resp - participant response (which stimulus was faster?)

Str - staircase number

Correct - indicates (1) if the participant’s response correctly identified the faster stimulus

RefFaster? – indicates (1) if the participant indicated that the reference stimulus was faster than the test

**Folder 2: Experimental Code**

Scripts for Experiments 1, 2, S1 & S2.

Scripts were created and compiled in Lazarus (https://www.lazarus-ide.org).

Required libraries are detailed at the start of each script. All are standard but one: SDL 1.2 library (<https://www.libsdl.org/download-1.2.php)>. sdl.dll should be located in the same directory as the executable or elsewhere in the path.

Note that the scripts require the use of a 4 display set up (we used an NVIDA 4 port graphics card to drive these displays) and draws to 2 distinct OpenGL rendering contexts with the rendering dimensions of each context equal to width = 2x horizontal width height = 1x monitor height.

To reproduce the experimental stimulus using a different display set up the user would need to amend the following parameters in the code to change the rendering:

h\_Rc: array [1..2] of HGLRC;

h\_Dc: array [1..2] of HDC;

h\_Wnd: array [1..2] of HWND;

win\_start:=2800;

To generate and the different rendering contexts, the function (function CreateWindows)is used, and this function as well as all dependent parameters need to be amended for a different display set up.

Displaying each window is controlled by the following parameters:

ShowWindow(h\_Wnd[i],SW\_SHOW);

wglShareLists(h\_Rc[1], h\_Rc[2]);

**For detailed information on experimental design and analysis for each of the experiments see the published paper: Rogers, Rushton, Warren (2017). Peripheral Visual Cues Contribute to the Perception of Object Movement During Self-Movement, i-Perception.**