Files and available here: <https://dx.doi.org/10.17605/OSF.IO/59ZYA>

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| File/Folder | Content Description | Data Files | Variable Names |
| TOP Documents for OSF | Aggregate data from Visual search task in csv formatSubfolders containing raw data and experiments materials for visual search, saccadometry and corsi tasks | PSP\_Visual Search hit rates and false Alarms.csv | Group: Which group the participant was in PSP= Progressive supranuclear PalspPD= Parkinsom’s DiseaseAMC = Age matched controlsTask: Which task did they doFeature SearchConjunction Search Notes: DNC= did not complete the taskThe following variables describe the hit rate in different conditions: 1. Target Present Trials, collapsed across Target Axis, 4 item array

 1. Target present trials collapsed across target axis, 8 item array
2. Target absent, 4 item array
3. Target Absent, 8 item array
4. Hit Rate (Correct detections) collapsed across Axis and SetSize
5. Correct Rejection rate collapsed across Setsize

Include: A variable that allowed me to exclude participants |
|  |  | PSP\_Visual\_Search\_Medians\_OSF.csv | Group: Which group the participant was in PSP= Progressive supranuclear PalspPD= Parkinsom’s DiseaseAMC = Age matched controlsTask: Which task did they doFeature SearchConjunction Search Notes: DNC= did not complete the task Num Trials: How many trials did they completeNum Prac: Number of practice trials completed  TargPres4: Median RT for correct responses to target present trials in the 4 item conditionTargPres8: Median RT for correct responses to target present trials in the 8 item condition TargAbs\_4: Median RT for correct responses to target absent trials in the 4 item condition TargAbs\_8: Median RT for correct responses to target absent trials in the 8 item condition TargPresRT: Median RT for correct responses to target present trials collapsed across set size TargAbsentRT: Median RT for correct responses to target present absent collapsed across set size |
| Corsi Task Data | Excel file showing raw and aggregate data from the Corsi blocks task | Corsi Task Raw Data and Mean Spans.csv | Horizontal Span 1: Horizontal Memory span, trial 1 |
|  |  |  | Horizontal Span 2:Horizontal Memory span, trial 2 |
|  |  |  | Horizontal Span 3: Horizontal Memory span, trial 3 |
|  |  |  | Hor Mean Span: Average of the horizontal trials |
|  |  |  | Vertical Span 1: Vertical Memory span, trial 1 |
|  |  |  | Vertical Span 2: Vertical Memory span, trial 2 |
|  |  |  | Vertical Span 3: Vertical Memory span, trial 3 |
|  |  |  | Vertical Mean Span: Average of the vertical trials |
|  |  |  | Group: Which group the participant was inPSP= Progressive supranuclear PalsyPD= Parkinsom’s DiseaseAMC = Age matched controls |
| Corsi Task Experiment & Stimuli | Eprime source files and scripts for the Corsi Blocks task |  |  |
| Visual Search C++ Experiments | C++ Scripts and documents for the visual search task.  |  |  |
| Visual Search C++ Experiments Raw Data | Folders containing search data from Subfolders containing data from all participants Participants who completed the C++ version of the search task. Each folder contains text files with the raw data. Files are labelled with the block number or PRAC to indicate practice trials, and appended with either ‘popout’ or ‘conjunction’ to indicate which type of search task was completedPSP= Progressive supranuclear PalsyPD= Parkinsom’s DiseaseAMC = Age matched controls |  | P: participant number Trial: The trial number T\_NUM: Trail number within the sub-block of trials (used for debugging)Acc: Was the response correct. 1= correct, 2= incorrectRT: Reaction time in milliseconds TargX: Target position on X axis in pixelsTargY: Target position on Y axis in pixelsTrgPres: Was a targrt presented on this trial. 1= Target Present, 2 = Target AbsentTargpos: number to keep track of where the target was presented. On a compass the positions would be as follows1 = North2= NE3=East4=SE5=South6=SW7=W8=NW9= Target absentArrSize: Number of items in the search arrayGapSize : Size of the aperture in the cue stimulus in pixels.TrgAx: Axis of target presentation1= Vertical2 = Horizontal3= Left oblique3= Righ oblique5= No target |
| Visual Search Eprime Experiments & Stimuli | Eprime source files, scripts and stimuli for the visual search task |  |  |
| Visual Search Eprime Raw Data | Text and .csv files containing the raw eprime data. The filename indicates which group (PD, PSP or AMC) and which search task (feature or conjunction)Each file is contains data aggregated from all the participants who completed that version of the task. The data were then exported from Eprime to make it accessible to people without a licence.  | AMC Conjunction Search EprimeData.csvPSP Conjunction Search EprimeData.csvPD Conjunction Search EprimeData.csvAMC Feature Search EprimeData.csvPSP Feature Search EprimeData.csvPD Feature Search EprimeData.csv | ExperimentName: Name of the experimentSubject: Participant numberSession: Experiment sessionBlock: Which block of trials within the session is runningProcedure[Block]: Was this a practice or an experimental block Trial: The Trial number within this session Procedure[Trial]: Indicates the number of items in the search array for this trial. Note that the practice trials are appended 5,9,17. I can’t recall why it’s like this, but there are 4,8 and 16 items on these trials respectively.  Running[Trial]: Notes the search task type (Feature or conjunction) and notes if it is a practice trial. ShowArray16.ACC. ShowArray16.CRESPShowArray16.RESPShowArray16.RTShowArray17.ACC ShowArray17.CRESP ShowArray17.RESPShowArray17.RT ShowArray4.ACC ShowArray4.CRESPShowArray4.RESP ShowArray4.RT ShowArray5.ACC ShowArray5.CRESPShowArray5.RESPShowArray5.RT ShowArray8.ACCShowArray8.CRESPShowArray8.RESPShowArray8.RTShowArray9.ACCShowArray9.CRESPShowArray9.RESPShowArray9.RT The suffix to each of these variables indicates what it is recording.ACC = Accuracy of participant’s response (1= correct, 0= incorrect).CRESP = what the correct response should be.RESP= how the participant actually responsed.RT = their reaction time in millisecondsThe number in the variable name indicates the number of items in the array. Note that 5,9,17 were only used in practice trials, and indicate 4,8 and 16 items on these trials respectively.TargAxis: What axis did the target appear onO= obliqueH= HorizontalV= VerticalTrialType: Was the target present or absent.1= Target present2= Target Absent |
| Saccadometry Data | Summary data for amplitude and main sequence in .CSV formatRaw data and experiment code is currently unavailable as they are stored locally on a machine that is not networked and currently off-limits due to lockdown.  | Saccadometry data.csv | Left= Left maximum saccadic amplitude measured in degrees of visual angleRight: Rightwards maximum saccadic amplitude measured in degrees of visual angleUp: Upwards maximum saccadic amplitude measured in degrees of visual angleDown: Downwards maximum saccadic amplitude measured in degrees of visual angleHoriz R: Correlation between amplitude and velocity (pearsons R) for Horizontal eye-movements. Estimates the main sequenceVert R: Correlation between amplitude and velocity (pearsons R) for vertical eye-movements |