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| **Variable Name** | **Description** | **Values** |
| ResponseID | participant ID (randomly assigned via Qualtrics) | - |
| Age | self-reported participant age | 18-72 |
| Gender | self-reported participant gender | 1=male, 2=female |
| NativeLang | participant’s first language | - |
| NativeLangEng | whether a participant’s (self-reported) L1 is English or not | 0 = L1 is not English  1 = L1 is English |
| SecondLang | participant’s second language(s) (if applicable, otherwise blank) | - |
| ExperimentDuration | amount of time to complete experiment (in minutes) | 3 - 17 |
| expName | name of the experiment (Including number of Experiment and condition information) | exp1  exp2  exp3\_uniform  exp3\_skewed |
| distribution | whether object-object associations followed a skewed or a uniform distribution | skewed  uniform |
| distributionC | whether object-object associations followed a skewed or a uniform distribution – converted to a numeric, centered variable | -0.5 = uniform  0.5 = skewed |
| visualCue | whether a visual context cue is present or not (during training trials) | noVisual (no visual context cue)  visual (visual context cue) |
| visualCueC | whether a visual context cue is present or not (during training trials) – converted to a numeric, centered variable | -0.5 = no visual context cue  0.5 = visual context cue |
| trialList | (randomly assigned) training list determining which roles were assigned/ objects were linked during training (two lists) | trialList\_list1  trialList\_list2 |
| memList | (randomly assigned) object-object association test trial list | MemTrials\_constrain\_1\_List1  MemTrials\_constrain\_2\_List1  MemTrials\_constrain\_3\_List2  MemTrials\_constrain\_4\_List2 |
| trialKind | trial type: either training trial or object-object association test trial | training  test |
| trialID | trial number based on original trial list, PRIOR to randomization. Test trials occurred in pre-determined order | training: 1 – 48  test: 1 – 8 |
| trialOrder | trial number in (randomized) order seen by participant | training: 1 – 48  test: 1– 8 |
| orderByTargetRole | trial number for a specific target/ label-object pair | 1 – 6 |
| orderByTargetRoleC | trial number for a specific target/ label-object pair - centered | -2.5 – 2.5 |
| label | label of the target object | blick, dirg, geddle, jellup, labo, manu, stip, vima |
| labelRole | “role” of the target label for training trials (NA for test trials). Roles determine which labels and objects are linked according to the experiment/ condition. A is mapped to the object with role 1, B is mapped to the object with role 2, etc. A – B (corresponds to objects 1 – 2), C – D (corresponds to objects 3 – 4), E – F (corresponds to objects 5 – 6), and G – H (corresponds to objects 7 – 8) are paired. | A, B, C, D, E, F, G, H |
| exemplar | on test trials: label/ id of object image stimulus presented as prompt item; on training trials: NA | object\_1, object\_2, object\_3, object\_4, object\_6, object\_8, object\_9, object\_12 |
| exemplarRole | on test trials “role” of the object stimulus; on training trials: NA. Roles determine which labels and objects are linked according to the experiment/ condition. A is mapped to the object with role 1, B is mapped to the object with role 2, etc. A – B (corresponds to objects 1 – 2), C – D (corresponds to objects 3 – 4), E – F (corresponds to objects 5 – 6), and G – H (corresponds to objects 7 – 8) are paired. | 1 - 8 |
| target | label/ id of target (correct choice) object image stimulus. | object\_1, object\_2, object\_3, object\_4, object\_6, object\_8, object\_9, object\_12 |
| targetRole | “role” of target (correct choice) object | 1 - 8 |
| distracter1 | label/ id of first distracter (incorrect choice) object image stimulus (numbering is arbitrary) | object\_1, object\_2, object\_3, object\_4, object\_6, object\_8, object\_9, object\_12 |
| distracter1Role | “role” of first distracter (incorrect choice) object (numbering is arbitrary) | 1 - 8 |
| distracter2 | label/ id of second distracter (incorrect choice) object image stimulus (numbering is arbitrary) | object\_1, object\_2, object\_3, object\_4, object\_6, object\_8, object\_9, object\_12 |
| distracter2Role | “role” of second distracter (incorrect choice) object (numbering is arbitrary) | 1 - 8 |
| distracter3 | on training trials: label/ id of third distracter (incorrect choice) object image stimulus (numbering is arbitrary);on test trials: NA | object\_1, object\_2, object\_3, object\_4, object\_6, object\_8, object\_9, object\_12 |
| distracter3Role | on training trials: “role” of third distracter (incorrect choice) object (numbering is arbitrary); on test trials: NA | 1 - 8 |
| pairKind | ID of target item grouped by pair type (i.e. objects with the roles A and B have the pairKind ID 1, objects with the roles C and D have the pairKind ID 2, etc.) | 1, 2, 3, 4 |
| cooccurPairType | for conditions with skewed object distributions: whether the co-occurrence strength of the target with its paired object is high (75% co-occurrence) or moderate (58% co-occurrence) during training | moderate  high |
| memAccExemplarTrial | on training trials: whether participants correctly choose the target object’s paired object at test; on test trials: NA | 0 = incorrect (on paired object test)  1 = correct (on paired object test) |
| memAccExemplarTrialC | on training trials: whether participants correctly choose the target object’s paired object at test - centered | -0.5 = incorrect (on paired object test)  0.5 = correct (on paired object test) |
| offset.25 | offset of .25, chance performance on training trials | 0.25 |
| offset.33 | offset of .33, chance performance on test trials | 0.33 |
| response | object choice  (1 = target; 2 = distracter1; 3 = distracter2; 4 = distracter3) | 1 - 4 |
| responseRole | “role” of object choice | 1 - 8 |
| isRight | whether the response is correct or not | 0 = incorrect  1 = correct |