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| <p>Welcome! In this spreadsheet, you'll be able to explore the results of the picture recall task and look for interesting findings. Below, we've explained how the spreadsheet is laid out.</p> <p>Each tab at the bottom has different information. Right now, you're in the "Welcome" tab. Here you can find information about the layout of the sheet, the meaning of columns on different sheets, and the structure of the experiment itself as a reference.</p> <p>The second tab is the "Descriptive Statistics and Group Data" tab. Here you can find data about the groups and averages across different groups. This information is useful for evaluating the impact of group factors such as the task condition, the content of the set, or their gender. This tab does not display any of the individual results, but allows for comparisons using all subjects.</p> <p>The third tab is the "In Your Head Condition" tab, containing the actual results from 20 participants who completed the task while repeating the words in their head. Check at the bottom of this page for a quick refresher on how the experiment worked and what the two conditions were. Definitions for the meaning of each column can be found on this page.</p> <p>The final tab is the "Out Loud Condition" tab, containing the actual results from 20 participants who completed the task while repeating the words out loud. This tab shares column headers with the 'In Your Head Condition' tab, so the definitions found below apply to this tab as well.</p> | |
| <p>Important Information about the layout of this sheet!</p> <p>On the two condition tabs, you will see some participant responses are highlighted yellow or red. This indicates these responses were not included in the analyses because a problem with their response was identified while initially reviewing the data. This is an important process that ensures the quality of the data and is aimed at ensuring participants properly followed instructions. There were two criteria that could warrant a participant response be removed, represented by the color used to highlight the cells. These criteria are listed below.</p> <p>In the closing interview, the participant responded that they did not repeat the words following their condition's instructions. The participant responded "No" in Column O (as in open, not the number zero)</p> <p>The participant did not respond when asked</p> | |
| <p>Definition of Column Headers for the "In Your Head Condition" and "Out Loud Condition" tabs</p> <p>Definition</p> <p>Participant age was calculated based on their provided birthdate and the date of testing. Months and days were not included as decimals.</p> <p>Participant's preferred gender.</p> <p>Participant's stated race and/or ethnicity. Participants could choose multiple options.</p> <p>Participants were required to be english speakers in order to take part in the study to avoid language as a factor, but it is still important to gather information about their language background. All participants responded that english was their native language.</p> <p>If participants are multilingual, that could potentially play a factor in their results. This questions provides additional information on their language use.</p> <p>Participants saw the set of animals, objects, or fruits and vegetables in different orders. This number specifies the order in which they saw the sets. The corresponding order is listed below:</p> <p>1-Animals, Objects, Fruits/Veggies 2- Animals, Fruits/Veggies, Objects 3- Fruits/Veggies, Animals, Objects 4-Fruits/Veggies, Objects, Animals 5- Objects, Fruits/Veggies, Animals 6- Objects, Animals, Fruits/Veggies</p> <p>The number of animals that the participant listed that were actually shown.</p> <p>The number of animals that the participant listed that weren't actually shown. Errors are shown in parenthesis and highlighted in red in their response.</p> <p>The actual participant response. Participants had as long as they needed to list the animals they remembered and were told to separate each animal with a comma.</p> <p>The number of objects that the participant listed that were actually shown.</p> <p>The number of objects that the participant listed that weren't actually shown. Errors are shown in parenthesis and highlighted in red in their response.</p> <p>The actual participant response. Participants had as long as they needed to list the object they remembered and were told to separate each object with a comma.</p> <p>The number of fruits/veggies that the participant listed that were actually shown.</p> <p>The number of fruits/veggies that the participant listed that weren't actually shown. Errors are shown in parenthesis and highlighted in red in their response.</p> <p>The actual participant response. Participants had as long as they needed to list the fruits/veggies they remembered and were told to separate each fruits/veggies with a comma.</p> <p>Once participants had completed the entire study, they asked whether they had actually repeated the words out loud or in their head. The question changed based on condition, so participants who had been told to repeat the words out loud were asked in they had repeated them out loud and likewise for participants in the in your head condition.</p> <p>After asking in they had followed instructions, participants were also asked in they had used any strategies to help them. This question was a simple yes or no.</p> <p>If participants responded yes to the previous question, they were asked to write down what strategies they had used to help them remember.</p> | <p>Column Header</p> <p>Age (years)</p> <p>Gender</p> <p>Race/Ethnicity</p> <p>Is English your native language?</p> <p>What language(s) are regularly spoken in your home?</p> <p>Presentation Order</p> <p>Number of correct animals remembered</p> <p>Incorrect responses</p> <p>List of remembered animals</p> <p>Number of correct objects remembered</p> <p>Incorrect responses</p> <p>List of remembered objects</p> <p>Number of correct fruits/veggies remembered</p> <p>Incorrect responses</p> <p>List of remembered fruits/veggies</p> <p>Did you actually repeat the words in your head/out loud?</p> <p>Did you use any strategies to help you remember?</p> <p>If yes, what strategies?</p> |
| <p>Summary of Experiment</p> <p>After reviewing the consent form, participants completed a short demographics survey asking their age, gender, and race/ethnicity.</p> <p>Once they had completed this survey, they were given instructions to watch a list of pictures and repeat the name of each picture either out loud or in their head. In they were told to repeat the word out loud, they were told to say it as if they were answering a question of what it was. If they were told to repeat the word in their head, they were told to repeat it as if they were making a list in their head without speaking or moving their lips.</p> <p>Once participants had finished reading the instructions, they began their first set of pictures. There were three sets, with the pictures of animals, household objects, or fruits and vegetables. Participants saw 30 pictures presented for 1 second each that all came from the same set. Once each picture had been shown, participants were told to report as many animals, objects, or fruits and vegetables as they could remember. When they were done writing down everything they remembered, they started the next set.</p> <p>After participants had completed all three sets, they were asked if they had followed instructions and whether they had used any strategies to help them remember. After answering those questions, they were done!</p> | |

| Descriptive Statistics | | | |
|--|--|---|-----------------|
| Participant Information* | | | |
| *Contains participants excluded from analyses for not following instructions | | | |
| | In Your Head | Out Loud | |
| Number of Participants | 20 | 20 | |
| Gender Breakdown | 11 male, 7 female, 1 other, 1 prefer not to answer | 13 male, 6 female, 1 prefer not to answer | |
| Race/Ethnicity Breakdown | | | |
| White | 15 | 16 | |
| Black or African American | 2 | 3 | |
| Hispanic/Latino | 3 | 3 | |
| Asian | 2 | 0 | |
| Other | 0 | 1 | |
| Age (in years) | | | |
| Average | 31.85 | 27.6 | |
| Oldest | 60 | 47 | |
| Youngest | 18 | 18 | |
| Range* | 42 | 29 | |
| *Difference between oldest and youngest | | | |
| Group Data | | | |
| Group Averages | | | |
| | Overall | In Your Head | Out Loud |
| Average number of remembered animals, fruits/veggies, or objects. | 13.66 | 14.12 | 13.20 |
| Average number of remembered animals | 14.64 | 15.67 | 13.61 |
| Average number of remembered objects | 11.72 | 11.39 | 12.06 |
| Average number of remembered fruits/veggies | 14.62 | 15.29 | 13.94 |
| *Overall averages are reported based on condition averages, not by averaging all subjects. | | | |
| Highest and Lowest Number Remembered | | | |
| | Overall | In Your Head | Out Loud |
| Highest number of animals remembered | 30 | 29 | 30 |
| Highest number of objects remembered | 23 | 17 | 23 |
| Highest number of fruits/veggies remembered | 23 | 23 | 22 |
| Lowest number of animals remembered | 7 | 9 | 7 |
| Lowest number of objects remembered | 5 | 7 | 5 |
| Lowest number of fruits/veggies remembered | 4 | 4 | 5 |

| Code | Unit | Year | Level | Program | Course | Prerequisites | ECTS | Credits | Notes |
|------|------|------|-------|---------|--------|---------------|------|---------|-------|
| 101 | 101 | 101 | 101 | 101 | 101 | 101 | 3 | 3 | 101 |
| 102 | 102 | 102 | 102 | 102 | 102 | 102 | 3 | 3 | 102 |
| 103 | 103 | 103 | 103 | 103 | 103 | 103 | 3 | 3 | 103 |
| 104 | 104 | 104 | 104 | 104 | 104 | 104 | 3 | 3 | 104 |
| 105 | 105 | 105 | 105 | 105 | 105 | 105 | 3 | 3 | 105 |
| 106 | 106 | 106 | 106 | 106 | 106 | 106 | 3 | 3 | 106 |
| 107 | 107 | 107 | 107 | 107 | 107 | 107 | 3 | 3 | 107 |
| 108 | 108 | 108 | 108 | 108 | 108 | 108 | 3 | 3 | 108 |
| 109 | 109 | 109 | 109 | 109 | 109 | 109 | 3 | 3 | 109 |
| 110 | 110 | 110 | 110 | 110 | 110 | 110 | 3 | 3 | 110 |
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 3 | 3 | 111 |
| 112 | 112 | 112 | 112 | 112 | 112 | 112 | 3 | 3 | 112 |
| 113 | 113 | 113 | 113 | 113 | 113 | 113 | 3 | 3 | 113 |
| 114 | 114 | 114 | 114 | 114 | 114 | 114 | 3 | 3 | 114 |
| 115 | 115 | 115 | 115 | 115 | 115 | 115 | 3 | 3 | 115 |
| 116 | 116 | 116 | 116 | 116 | 116 | 116 | 3 | 3 | 116 |
| 117 | 117 | 117 | 117 | 117 | 117 | 117 | 3 | 3 | 117 |
| 118 | 118 | 118 | 118 | 118 | 118 | 118 | 3 | 3 | 118 |
| 119 | 119 | 119 | 119 | 119 | 119 | 119 | 3 | 3 | 119 |
| 120 | 120 | 120 | 120 | 120 | 120 | 120 | 3 | 3 | 120 |
| 121 | 121 | 121 | 121 | 121 | 121 | 121 | 3 | 3 | 121 |
| 122 | 122 | 122 | 122 | 122 | 122 | 122 | 3 | 3 | 122 |
| 123 | 123 | 123 | 123 | 123 | 123 | 123 | 3 | 3 | 123 |
| 124 | 124 | 124 | 124 | 124 | 124 | 124 | 3 | 3 | 124 |
| 125 | 125 | 125 | 125 | 125 | 125 | 125 | 3 | 3 | 125 |
| 126 | 126 | 126 | 126 | 126 | 126 | 126 | 3 | 3 | 126 |
| 127 | 127 | 127 | 127 | 127 | 127 | 127 | 3 | 3 | 127 |
| 128 | 128 | 128 | 128 | 128 | 128 | 128 | 3 | 3 | 128 |
| 129 | 129 | 129 | 129 | 129 | 129 | 129 | 3 | 3 | 129 |
| 130 | 130 | 130 | 130 | 130 | 130 | 130 | 3 | 3 | 130 |
| 131 | 131 | 131 | 131 | 131 | 131 | 131 | 3 | 3 | 131 |
| 132 | 132 | 132 | 132 | 132 | 132 | 132 | 3 | 3 | 132 |
| 133 | 133 | 133 | 133 | 133 | 133 | 133 | 3 | 3 | 133 |
| 134 | 134 | 134 | 134 | 134 | 134 | 134 | 3 | 3 | 134 |
| 135 | 135 | 135 | 135 | 135 | 135 | 135 | 3 | 3 | 135 |
| 136 | 136 | 136 | 136 | 136 | 136 | 136 | 3 | 3 | 136 |
| 137 | 137 | 137 | 137 | 137 | 137 | 137 | 3 | 3 | 137 |
| 138 | 138 | 138 | 138 | 138 | 138 | 138 | 3 | 3 | 138 |
| 139 | 139 | 139 | 139 | 139 | 139 | 139 | 3 | 3 | 139 |
| 140 | 140 | 140 | 140 | 140 | 140 | 140 | 3 | 3 | 140 |
| 141 | 141 | 141 | 141 | 141 | 141 | 141 | 3 | 3 | 141 |
| 142 | 142 | 142 | 142 | 142 | 142 | 142 | 3 | 3 | 142 |
| 143 | 143 | 143 | 143 | 143 | 143 | 143 | 3 | 3 | 143 |
| 144 | 144 | 144 | 144 | 144 | 144 | 144 | 3 | 3 | 144 |
| 145 | 145 | 145 | 145 | 145 | 145 | 145 | 3 | 3 | 145 |
| 146 | 146 | 146 | 146 | 146 | 146 | 146 | 3 | 3 | 146 |
| 147 | 147 | 147 | 147 | 147 | 147 | 147 | 3 | 3 | 147 |
| 148 | 148 | 148 | 148 | 148 | 148 | 148 | 3 | 3 | 148 |
| 149 | 149 | 149 | 149 | 149 | 149 | 149 | 3 | 3 | 149 |
| 150 | 150 | 150 | 150 | 150 | 150 | 150 | 3 | 3 | 150 |
| 151 | 151 | 151 | 151 | 151 | 151 | 151 | 3 | 3 | 151 |
| 152 | 152 | 152 | 152 | 152 | 152 | 152 | 3 | 3 | 152 |
| 153 | 153 | 153 | 153 | 153 | 153 | 153 | 3 | 3 | 153 |
| 154 | 154 | 154 | 154 | 154 | 154 | 154 | 3 | 3 | 154 |
| 155 | 155 | 155 | 155 | 155 | 155 | 155 | 3 | 3 | 155 |
| 156 | 156 | 156 | 156 | 156 | 156 | 156 | 3 | 3 | 156 |
| 157 | 157 | 157 | 157 | 157 | 157 | 157 | 3 | 3 | 157 |
| 158 | 158 | 158 | 158 | 158 | 158 | 158 | 3 | 3 | 158 |
| 159 | 159 | 159 | 159 | 159 | 159 | 159 | 3 | 3 | 159 |
| 160 | 160 | 160 | 160 | 160 | 160 | 160 | 3 | 3 | 160 |
| 161 | 161 | 161 | 161 | 161 | 161 | 161 | 3 | 3 | 161 |
| 162 | 162 | 162 | 162 | 162 | 162 | 162 | 3 | 3 | 162 |
| 163 | 163 | 163 | 163 | 163 | 163 | 163 | 3 | 3 | 163 |
| 164 | 164 | 164 | 164 | 164 | 164 | 164 | 3 | 3 | 164 |
| 165 | 165 | 165 | 165 | 165 | 165 | 165 | 3 | 3 | 165 |
| 166 | 166 | 166 | 166 | 166 | 166 | 166 | 3 | 3 | 166 |
| 167 | 167 | 167 | 167 | 167 | 167 | 167 | 3 | 3 | 167 |
| 168 | 168 | 168 | 168 | 168 | 168 | 168 | 3 | 3 | 168 |
| 169 | 169 | 169 | 169 | 169 | 169 | 169 | 3 | 3 | 169 |
| 170 | 170 | 170 | 170 | 170 | 170 | 170 | 3 | 3 | 170 |
| 171 | 171 | 171 | 171 | 171 | 171 | 171 | 3 | 3 | 171 |
| 172 | 172 | 172 | 172 | 172 | 172 | 172 | 3 | 3 | 172 |
| 173 | 173 | 173 | 173 | 173 | 173 | 173 | 3 | 3 | 173 |
| 174 | 174 | 174 | 174 | 174 | 174 | 174 | 3 | 3 | 174 |
| 175 | 175 | 175 | 175 | 175 | 175 | 175 | 3 | 3 | 175 |
| 176 | 176 | 176 | 176 | 176 | 176 | 176 | 3 | 3 | 176 |
| 177 | 177 | 177 | 177 | 177 | 177 | 177 | 3 | 3 | 177 |
| 178 | 178 | 178 | 178 | 178 | 178 | 178 | 3 | 3 | 178 |
| 179 | 179 | 179 | 179 | 179 | 179 | 179 | 3 | 3 | 179 |
| 180 | 180 | 180 | 180 | 180 | 180 | 180 | 3 | 3 | 180 |
| 181 | 181 | 181 | 181 | 181 | 181 | 181 | 3 | 3 | 181 |
| 182 | 182 | 182 | 182 | 182 | 182 | 182 | 3 | 3 | 182 |
| 183 | 183 | 183 | 183 | 183 | 183 | 183 | 3 | 3 | 183 |
| 184 | 184 | 184 | 184 | 184 | 184 | 184 | 3 | 3 | 184 |
| 185 | 185 | 185 | 185 | 185 | 185 | 185 | 3 | 3 | 185 |
| 186 | 186 | 186 | 186 | 186 | 186 | 186 | 3 | 3 | 186 |
| 187 | 187 | 187 | 187 | 187 | 187 | 187 | 3 | 3 | 187 |
| 188 | 188 | 188 | 188 | 188 | 188 | 188 | 3 | 3 | 188 |
| 189 | 189 | 189 | 189 | 189 | 189 | 189 | 3 | 3 | 189 |
| 190 | 190 | 190 | 190 | 190 | 190 | 190 | 3 | 3 | 190 |
| 191 | 191 | 191 | 191 | 191 | 191 | 191 | 3 | 3 | 191 |
| 192 | 192 | 192 | 192 | 192 | 192 | 192 | 3 | 3 | 192 |
| 193 | 193 | 193 | 193 | 193 | 193 | 193 | 3 | 3 | 193 |
| 194 | 194 | 194 | 194 | 194 | 194 | 194 | 3 | 3 | 194 |
| 195 | 195 | 195 | 195 | 195 | 195 | 195 | 3 | 3 | 195 |
| 196 | 196 | 196 | 196 | 196 | 196 | 196 | 3 | 3 | 196 |
| 197 | 197 | 197 | 197 | 197 | 197 | 197 | 3 | 3 | 197 |
| 198 | 198 | 198 | 198 | 198 | 198 | 198 | 3 | 3 | 198 |
| 199 | 199 | 199 | 199 | 199 | 199 | 199 | 3 | 3 | 199 |
| 200 | 200 | 200 | 200 | 200 | 200 | 200 | 3 | 3 | 200 |