Group Member: Tong Li, Wenjie Shao, Shixuan Song

Our project aims to build an extension to the Rogers & McClelland work as described in the first assignment. We plan to replace the word representations of the items in the original dataset by a collection of images belonging to that category (e.g. canary, pine). Since these categories are not rare, we plan to collect these images through image search. Moreover, we plan to train another model for question answering on the same facts provided by R&M by replacing the categorical representations with natural language. To do this, we plan to do a permutation of all the items, relations, and corresponding attributes and label the statement as 'Yes' if it is in the original fact statements and 'No' otherwise. Finally, we would like to combine the visual item with the question answering model to investigate the dynamics of differentiation and also degradation by incorporating noise.