

Research Material Assignment

Your task is to generate two sentences and two pictures which will be your group's research materials to replicate Experiment 1 and Experiment 2 of the Knowlton et. al. paper.

Please make sure to upload your two pictures and two sentences in one pdf, to the main course blackboard. Although this is a group assignment, each student must submit the pdf separately. This assignment is due Friday, Nov. 4th, by 5PM.

Category parameters:

1. The two sub-categories chosen must be sub-categories of the following larger categories: *animals*, *fruits*, or *vegetables*. Both sub-categories must belong to the *same larger category*. (e.g. dogs and cats for *animals*; apples and oranges for *fruit*, carrots and peas for *vegetables*).
2. The objects you'll depict must be clearly definable and must *not require specialized knowledge to differentiate* the two (e.g. **not** cheetahs and leopards, **not** crows and ravens, **not** blackberries and huckleberries).
3. The names of the sub-categories must be *one word only* (e.g. whales and dolphins, **not** blue whales and sperm whales).
4. If the objects you'll depict differ primarily or only in color, they must be *colorblind friendly* (e.g. avoid combining red/green/brown/orange).
 - a. Use high contrast color differences.
 - b. The combination of blue and orange is colorblind friendly!

Sentence parameters:

1. Your sentences should conform to the following schema:

Most: Most of the Xs are Ys.

More: More of the Xs are Ys.

Where 'X' is filled in with the name of the larger category of your objects (either 'animals', 'fruits', or 'vegetables'), and 'Y' is filled in with the name of the sub-category that has more objects depicted (e.g. 'whales', 'mangoes'). *So: if your sub-categories were cats and dogs, and you had more cats depicted, the sentences would read: "Most of the animals are cats" and "More of the animals are cats."*

Image parameters:

1. In both images, one set of objects must be *more numerous* than the other set of objects.
Acceptable ratios of the less numerous objects to the more numerous are outlined below.
2. The *same number* of both sets of objects should be present in both images (e.g. if one image has 4 eggplants and 6 onions, the other should also have 4 eggplants and 6 onions).
3. One image should have the objects *intermixed*, in the other the objects should be *separated* by type.
4. Your image need not have a specific ratio or dimension, but it must be *at least 500x500 pixels*.
5. Your image must not be hand-drawn.

Ratio parameters (for the objects in the pictures)

1. The ratio must be chosen from the following:
 - A. 3:4
 - B. 4:5
 - C. 5:6