

Mutating a value vs. rebinding a variable:

To mutate a value is to modify the object value that is in memory and assign it a new memory address. Rebinding a variable is to change the value of a variable to be some other value. One is changing the value itself and the other is changing the value of a variable. A good example of mutating a value is a list `food = ["fries", "chicken", "steak"]`. If we do `food.append("noodles")`, we append noodles to the list `food` and by doing so, it changes the list `food` in memory. An example of rebinding a variable would be, if there are the lists `food = ["fries", "chicken", "steak"]` and `drink = ["water", "soda", "lemonade"]`, if we did `food[] = drink`, we are merely changing the name of the drink list to `food` (rebinding a variable).

This could trip someone up because if 2 objects were referencing the same value, if one of those objects were to change the value, the other object would also be affected because they both reference the same object value.