

SECTION 6: METHODS AND FUNCTIONS, 2 hours 54 mins, 30 parts

• 7/29 Interactions between Python Functions

- -> **Python notebooks contain multiple functions interacting with each other**
 - -> creating multiple functions to mimick the red ball monte game (a ball under one of three cups) <- so a Python list with two empty strings and then one string with 'o' for the ball
 - -> this is to show multiple functions interacting with each other
- -> **in the .ipynb file**
 - from random import shuffle <- this is importing shuffle
 - example = [1,2,3,4,5,6,7,8,9,10]
 - shuffle(example) <- this stores example as example all randomly shuffled (it's returning a NoneType, the shuffled list has been stored as example
- defining the first function <- **when problem solving, you can define multiple functions at each state of the problem solving process, then combine them for the result, which you interpret etc**
 - def shuffle_list(mylist):
 - shuffle(mylist)
 - return mylist <- so we've defined a function which takes the input list and shuffled it (it returns the same list, shuffle
- -> **then she's defined a second function for the red ball monte game**
 - inside the function
 - guess = ''
 - **while guess not in [,,,]: <- it keeps on asking for a guess, until it's in that list**
 - guess = input("...")
 - -> then return int(guess)
 - -> so this function takes a guess
- -> **then she defines a third function the two functions**
 - -> def check_guess(mylist,guess):
 - if mylist[guess] == 'o':
 - print("Correct")
 - else:
 - print("Wrong")
- -> **then she combines all three functions into a final function**
 - -> **the JN is basically a giant calculator for problem solving -> putting different parts of the problem into different functions makes the problem solving thought process clearer**
 - -> **this allows for more complex problem solving**