

WHAT ARE PYTHON LISTS?



PYTHON LISTS ARE VERSATILE CONTAINERS THAT CAN HOLD MULTIPLE ITEMS IN A SINGLE VARIABLE. THINK OF THEM AS A COLLECTION OF ITEMS!

HOW TO CREATE A LIST?

LISTS ARE DEFINED BY
SQUARE BRACKETS []
AND CAN INCLUDE
DIFFERENT TYPES OF
ELEMENTS.

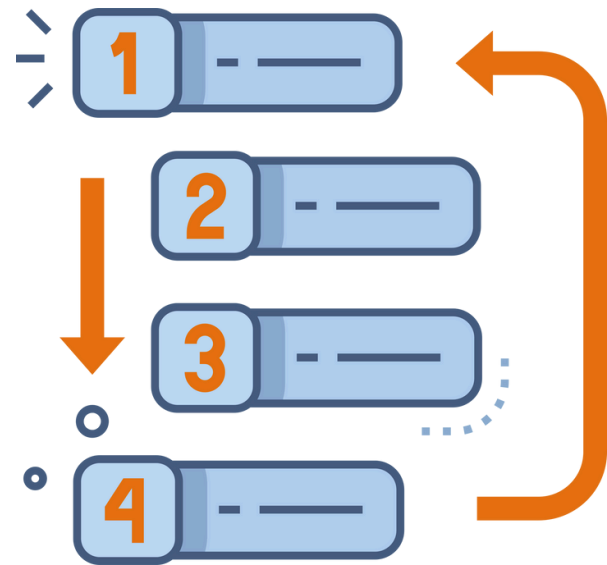


```
MY_LIST = [1, 2, 3, 'APPLE', 'BANANA']
```



ACCESS ELEMENTS

ACCESS ITEMS USING
THEIR INDEX, STARTING
AT 0. USE
`MY_LIST[INDEX]` TO GET
AN ITEM.

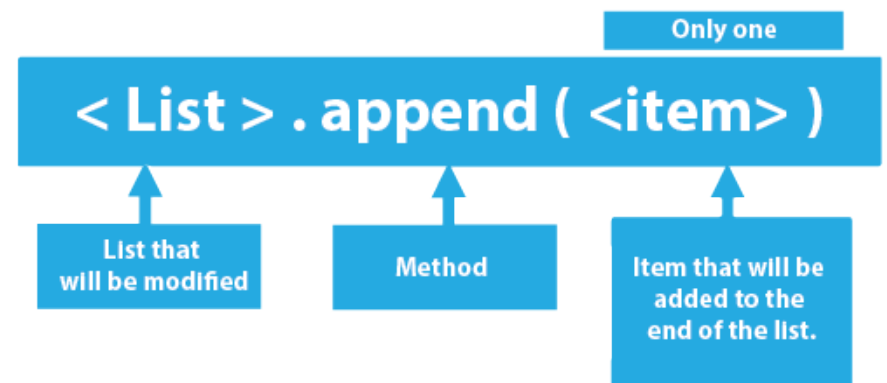


```
FIRST_ITEM = MY_LIST[0] # 1
```



MODIFY LISTS

CHANGE ITEMS USING
THEIR INDEX. ASSIGN A
NEW VALUE TO
MY_LIST[INDEX]



```
MY_LIST[1] = 'ORANGE'
```



LIST METHODS

LISTS COME WITH
BUILT-IN METHODS TO
MAKE YOUR LIFE
EASIER!

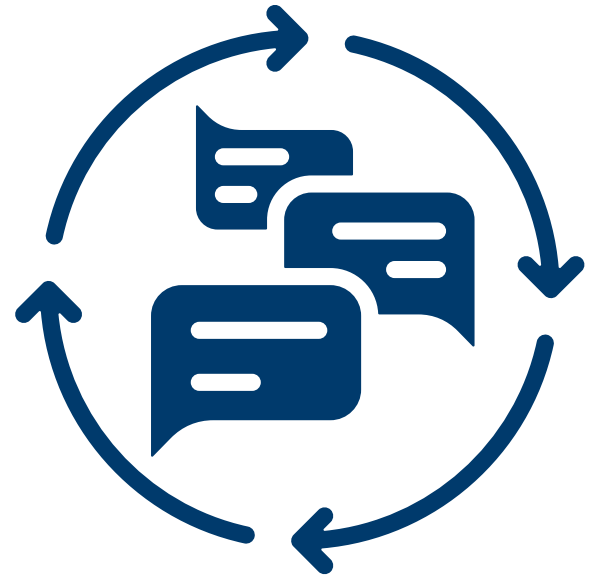


```
MY_LIST.APPEND('GRAPE') # ADDS 'GRAPE' TO THE END  
MY_LIST.REMOVE('APPLE') # REMOVES 'APPLE'
```



LOOP THROUGH LISTS

USE A FOR LOOP TO GO THROUGH EACH ITEM IN THE LIST.

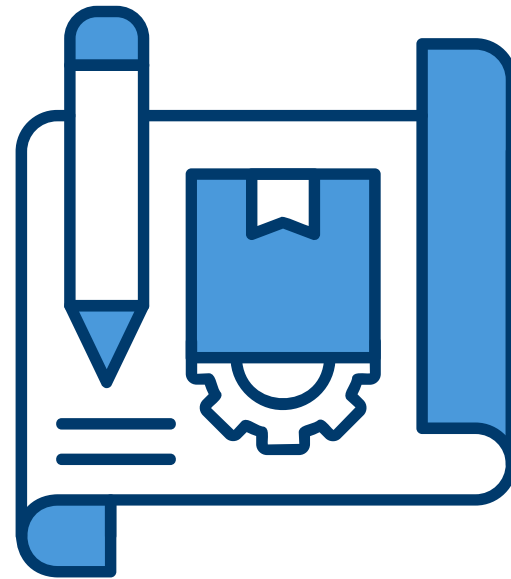


```
FOR ITEM IN MY_LIST:  
    PRINT(ITEM)
```



SLICE LISTS

GET A PORTION OF A LIST USING SLICING.



```
SUB_LIST = MY_LIST[1:4] # GETS ITEMS FROM INDEX 1 TO 3
```



LIST COMPREHENSION

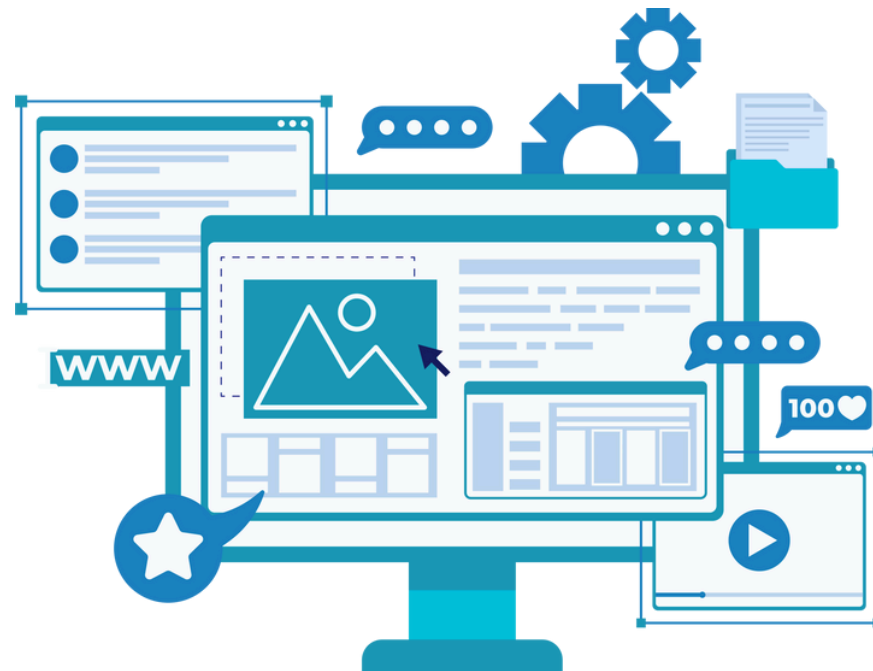
CREATE NEW LISTS
USING CONCISE
SYNTAX.



```
SQUARES = [X**2 FOR X IN RANGE(5)] # [0, 1, 4, 9, 16]
```



WRAPPING UP



LISTS ARE A FUNDAMENTAL PART OF PYTHON PROGRAMMING. PRACTICE USING THEM TO BECOME A PYTHON PRO!



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