Data Structures (Python)

→ to organise & store the data

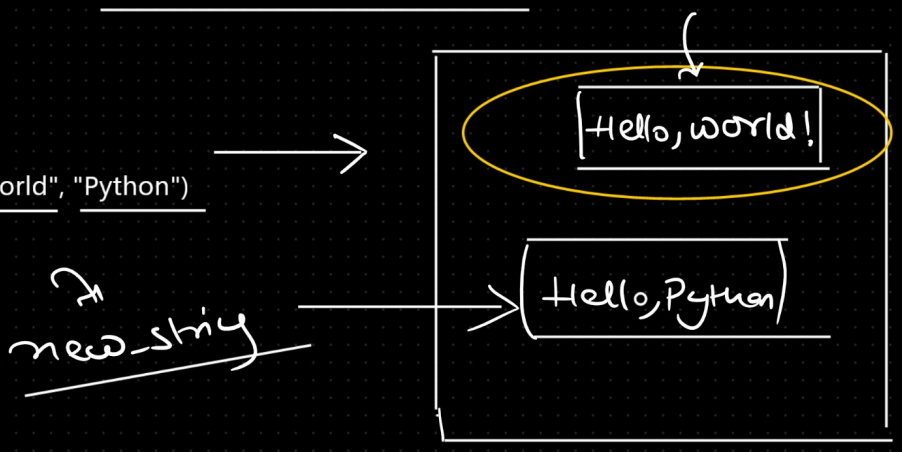
a → 97

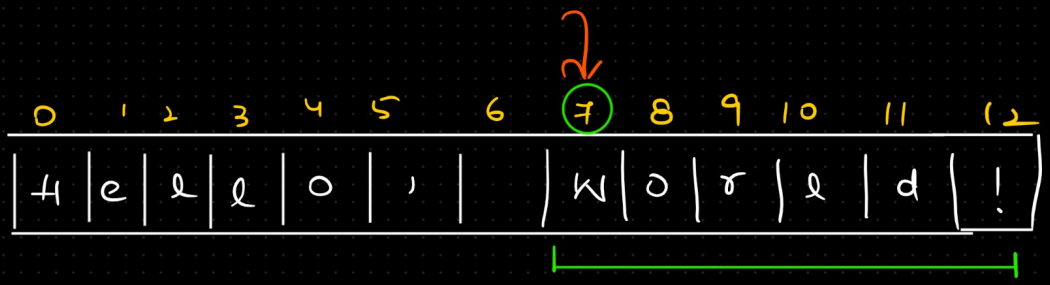
b → 98

original_string

```
original_string = "Hello, world!"

## Replace "world" with "Python"
new_string = original_string.replace("world", "Python")
print(new_string)
```





Heterogeneous data elements

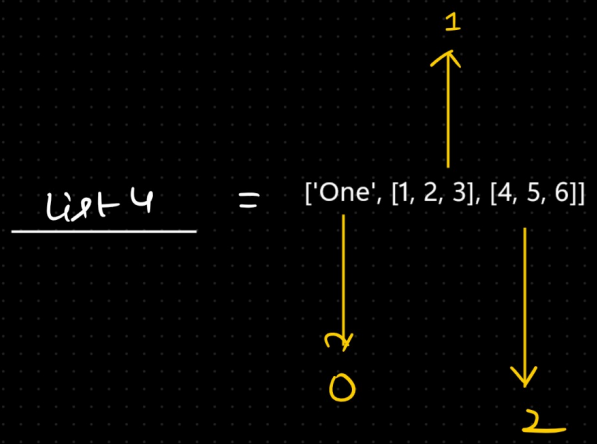
① List → Ordered Collection of items, mutable

② Tuple → ordered collection of items, immutable

③ Sets → Unordered collection of unique items, mutable

④ Dictionaries → unordered

Collection of key-value pair, mutable



list4[1] = [1, 2, 3]
0 1 2

list4[1][1] = 2

by default, left to right

-5 -4 -3 -2 -1

letters = ['a', 'b', 'c', 'd', 'e']
print(letters[-3:-1]) → [c, d]

print(letters[-1:-3]) → end -1

print(letters[-1:-3:-1]) → e d

Step size