# Introduction to Lists

# Python lists



An ordered sequence of multiple values

*list_of_odd_numbers = []*

# Python lists



An ordered sequence of multiple values

List items can be of any data type

```
list_of_odd_numbers = [1, 3, 5, 7]
```

# Python lists



An ordered sequence of multiple values

List items can be of any data type

```
list_of_strings = [“Two”, “Four”, “Six”, “Eight”]
```

# Python lists



An ordered sequence of multiple values

List items can be of any data type

... including lists! (and other composite data types)

All composite data types can store values of any data type, including composite data types

```
list_of_different_types = ["Two", 1000, 27.0, [1, 2, 3]]
```

# List index



An ordered sequence of multiple values

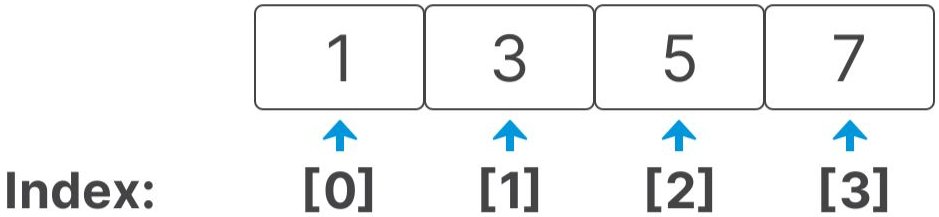
List items have specific order and numeric index

Similar to JavaScript arrays

Index depends on order within list

First item has index 0, second item has index 1, ...

*list_of_odd_numbers = [1, 3, 5, 7]*



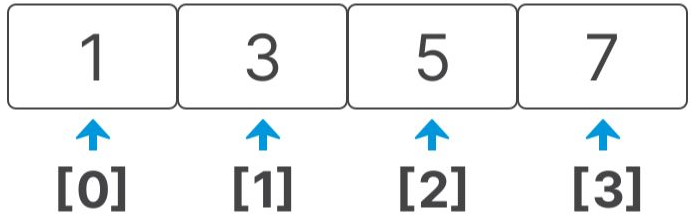
# List index



You can access list items using bracket notation:

Append to the list the index number inside square brackets

*list_of_odd_numbers = [1, 3, 5, 7]*




*print(list_of_odd_numbers[1])*

*Result: The number 3 is printed*

# Lists recap



An ordered sequence of multiple values

List items can be of any data type,
including lists and other composite data types

List items have specific order and numeric index starting at 0

List items can be accessed using bracket notation, e.g.
**my_list[0]**

Mutable, and can contain duplicate values