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Python Cheat Sheet Part-1

ALL about the LIST

—@the_programming_girl

© LISTS

A list stores a series of items in a particular order. Lists allows you to store sets of information in one place, whether you have just a few items or millions of items.

Use square brackets to define a list, and use commas to seperate individual item in list.

making a list.

```
abc = ['Val', 'Cal', 'Bal']
```

© Accessing element.

Item accessed according to their position called index. The index of first item is 0.

Getting first element

```
first = abc[0]
```

Getting the second element

```
Sfirst = abc[1]
```

Getting the last element.

```
last = abc[-1]
```

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Modifying Individual items.

You do this by reffering to the index of the items you want to modify

Changing element.

```
users[0] = "Calsi"
Users[-2] = "Nansi"
```

Adding element

You can insert an element wherever you want.

Adding an element at the end of List

```
abc.append("amy")
```

Inserting element in a particular position

```
abc.insert(0, 'joe')
```

Removing elements-

you can remove elements by their position in a List or by the value of items

Deleting an item by its position.

```
del abc[-1]
```

removing an item by its value.

```
abc.remove("mia")
```

Pop the last element from list

```
abc.pop()
```

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Pop the first item in list.

```
abc.pop(0)
```

List length.

len() function returns the number of items in list.

find the length.

```
numba = len(abc)
```

@ Sorting the list.

sort() method changes the order of the list permanently. the sorted() function return a copy of list.

Sort a list.

```
abc.sort()
```

Sorting list in reverse

```
abc.sort(reverse=True)
```

Sorting a list temporally.

```
Sorted(abc)
```

Reversing an order.

```
abc.reverse().
```

@ Tuples:-

A tuple is like list except you cant change the value in the tuple. ones it defined.

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Defining a tuple.

```
abc = (200,300)
```

Overwriting a tupple

```
abc = (200,300)
abc = (400,300)   ---- overwriting
```

Slicing

You can work on any part of the list called slice.

—@the_programming-gist

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