

Lists

Declare a list: enclose items in square brackets

```
fruitlist = ['apple', 'orange', 'banana']
```

Access list item: enclose index in square brackets

```
item = fruitlist[0]
```

Insert an item – specify index to insert item at

```
fruitlist.insert(1, 'grape')
```

0	1	2
apple	orange	banana

This inserts grape at index[1] and shifts items after insert point to the right

0	1	2	3
apple	grape	orange	banana

Append an item

```
fruitlist.append('blueberry')
```

0	1	2	3	4
apple	grape	orange	banana	blueberry

Remove an item by value

```
fruitlist.remove('banana')
```

0	1	2	3
apple	grape	orange	blueberry

Remove item at specified index

```
fruitlist.pop(1)
```

Dictionaries

Declare using curly braces

```
capitalCities = {'UK': 'London',  
                 'Australia': 'Canberra',  
                 'USA': 'Washington DC',  
                 'Spain': 'Madrid'}
```

Access list item: enclose key in square brackets

```
USCapital = capitalCities ['USA']
```

Insert an item

```
capitalCities.update( {'France': 'Paris'} )
```

Update an item – specify key of item to change

```
capitalCities.update( {'Spain': 'Unknown'} )
```

Remove item – specify key of item to remove

```
capitalCities.pop('Spain')
```