# NESTED LISTS



Lists stored as elements of another list are known as **nested lists**

```
list_of_lists = [['a', 'b', 'c'],
                 ['d', 'e', 'f'],
                 ['g', 'h', 'i']]
list_of_lists
```

```
[['a', 'b', 'c'], ['d', 'e', 'f'], ['g', 'h', 'i']]
```

```
# grab the second element (a list)
list_of_lists[1]
```

```
['d', 'e', 'f']
```

*Referencing a single index value will return an entire nested list*

```
# grab the second element of the second element
list_of_lists[1][1]
```

```
'e'
```

*Adding a second index value will return individual elements from nested lists*

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List **methods** & **functions** still work with nested lists

```
list_of_lists = [['a', 'b', 'c'],
                 ['d', 'e', 'f'],
                 ['g', 'h', 'i']]
list_of_lists
```

```
[['a', 'b', 'c'], ['d', 'e', 'f'], ['g', 'h', 'i']]
```

```
list_of_lists[1].append('k')
list_of_lists
```

*'k' is being added as the last element to the second list*

```
[['a', 'b', 'c'], ['d', 'e', 'f', 'k'], ['g', 'h', 'i']]
```

```
list_of_lists[2].count('h')
```

*'h' appears once in the third list*

```
1
```