# **Python List Slicing Cheatsheet**

## Collection of List slicing patterns for Python

Index (from left)	0	1	2	3	4	5	6	7	8
Index (from right)	-9	-8	-7	-6	-5	-4	-3	-2	-1
list	А	В	С	D	E	F	G	Н	1
Slice (from left)	1	2	3	4	5	6	7	8	
Slice (from right)	-8	-7	-6	-5	-4	-3	-2	-1	

# **Notations:**

# Example

```
list= ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I']
```

### Simple

#### Double

```
list[-12:1] >> ['A']
list[-12:3] >> ['A', 'B', 'C']
list[-12:-3] >> ['A', 'B', 'C', 'D', 'E', 'F']
list[1:-8] >> []
list[1:-11] >> []
list[1:-6] >> ['B', 'C']
list[2:6] >> ['C', 'D', 'E', 'F']
```

### Double with step

```
list[2:7:4] >> ['C', 'G']
list[2:7:5] >> ['C']
list[2:7:2] >> ['C', 'E', 'G']
list[1:8:2] >> ['B', 'D', 'F', 'H']
list[-7:8:2] >> ['C', 'E', 'G']
```

#### More variations

```
list[-1::] >> ['I']
list[-3::] >> ['G', 'H', 'I']
list[3::] >> ['D', 'E', 'F', 'G', 'H', 'I']
list[::-1] >> ['I', 'H', 'G', 'F', 'E', 'D', 'C',
    'B', 'A']
list[::-4] >> ['I', 'E', 'A']
list[::4] >> ['A', 'E', 'I']
list[::-2] >> ['I', 'G', 'E', 'C', 'A']
list[::2] >> ['A', 'C', 'E', 'G', 'I']
```

#### Even more variations

```
list[-7::2] >> ['C', 'E', 'G', 'I']
list[-7::3] >> ['C', 'F', 'I']
list[1::-1] >> ['B', 'A']
```

```
list[1::-2] >> ['B']
list[1::-7] >> ['B']
list[6::-3] >> ['G', 'D', 'A']
```

If you have any more patterns, ideas or suggestions, please share.

You can fork/start this at <a href="https://github.com/ostwalprasad/PythonListSlicingCheatsheet">https://github.com/ostwalprasad/PythonListSlicingCheatsheet</a>

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