

### Loops

```
for i in range(x):
```

```
for v in list:
```

```
for idx, val in enumerate(iterable, start=0):
```

```
[expression for item in list]
```

```
while true expression:
```

### Conditionals

```
if condition: ... elif condition: ... else: ...
```

```
[a for ... if condition]
```

```
[a if condition else b for ..]
```

```
10 > a > 100
```

```
if (x:=a+b) > c:
```

### Strings

```
f'Variable {x} substitution'
```

### Regular Expressions

```
import re
```

```
re.compile(pattern) returns a regex object
```

```
re.search(pattern, string) Find the first match and return a match object
```

```
re.match(pattern, string) Returns a match object if the beginning of the string matches
```

```
re.split(pattern, string, maxsplit) Split string by occurrences of pattern, complex!
```

```
re.findall(pattern, string) Return all non-overlapping matches as a list of strings
```

```
re.finditer(pattern, string) Returns in iterator yielding match objects over non-overlapping matches
```

```
re.sub(pattern, repl, string, count) Returns a string, replacing the first occurrence of pattern with the repl string
```

### Regular Expressions (cont)

```
re.sub(pattern, repl, string, count) Similar to sub but return a tuple (new_string, number_of_subs_made)
```

### Container Types

```
List [] or [item1, item2] or list(iterable) Ordered
```

```
Tuple () or (item1, item2) or tuple(iterable) Ordered, Immutable
```

```
Dictionary {} or {key: value} or dict(a=1, b=2) No a priori order, unique keys
```

```
Collection / Set set() or {1,2,3} or set(key1, key2) No a priori order, unique keys
```

```
String " or 'item' or str('item') String is also iterable, immutable
```



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