# W02\_07\_Strings\_and\_Formatted\_Output

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# 1 Strings and Formatted Output

#### 1.0.1 Reminder

```
[1]: s = "abc" # equivalent
s = 'abc' # but not s = 'abc"

[2]: s.startswith("ab")
```

[2]: True

#### 1.0.2 Formatting strings

There are several ways of formatting strings in Python. The resulting strings can be printed to the screen or written to a file, or used for some other purpose – the formatting works the same regardless.

#### 1.0.3 Formatting strings using %

The string interpolation operator % is probably still the most common in the wild.

The % operator is used *twice* in formatting.

```
[3]: for i in range(5):
    if i % 2 == 0: # arithmetic % (mod)
        # %d is a format specifier
        # bare % is string interpolation
        s = "i = %d" % i
        print(s)
```

i = 0i = 2

i = 4

We can use different % format strings to format values of different types:

```
[4]: '17, 3.141593, 3.14: hello'
```

## 1.0.4 Formatting strings using .format()

### 1.0.5 Formatting strings using f-strings

I think modern Python authors prefer f-strings.

```
[6]: for i in range(10):
    if i % 2 == 0:
        s = f"i = {i}" # special syntax f" ... {variable name} ... {or
        expression}"
        print(s)
```

```
i = 0
i = 2
i = 4
i = 6
i = 8
```

# 1.0.6 Further reading

More examples and details, e.g.: https://realpython.com/python-f-strings/