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**string
formatting**



.format()

The string on which the method `.format(*args, **kwargs)` is called can contain literal text or replacement fields delimited by braces `{ }`. Each replacement field contains either the numeric index of a positional argument, or the name of a keyword argument. Returns a copy of the string where each replacement field is replaced with the string value of the corresponding argument.

```
print("The sum of 1 + 2 is {}".format(1 + 2))    # space is not allowed in the braces
print("The sum of 1 + 2 is {0}".format(1 + 2))
```

```
The sum of 1 + 2 is 3
The sum of 1 + 2 is 3
```

```
print("{} and {}".format('rock', 'paper', 'scissors'))
print("{}, {} and {}".format('rock', 'paper', 'scissors'))
print("{1}, {0} and {2}".format('rock', 'paper', 'scissors'))
```

```
rock and paper
rock, paper and scissors
paper, rock and scissors
```

f-string

A formatted string literal or **f-string** is a string literal that is prefixed with 'f' or 'F'. These strings may contain replacement fields, which are expressions delimited by curly braces { }

While other string literals always have a constant value, formatted strings are really expressions evaluated at run time.

```
ans = 3
print(f"The sum of 1 + 2 is {ans}")
```

The sum of 1 + 2 is 3

```
quantity, item, price = 24, 'apple', 12
print(f'Price per {item} is ${price/quantity}')
```

Price per apples is \$0.5

```
name = "Sofia"
print(f'Hello {}') # SyntaxError: empty expression not allowed
```

```
File "C:\Users\hotid\AppData\Local\Temp\ipykernel_12792\38216862.py", line 2
    print(f'Hello {}')
            ^
```

SyntaxError: f-string: empty expression not allowed





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