

Python String Formatting

To make sure a string will display as expected, we can format the result with the `format()` method.

String format()

The `format()` method allows you to format selected parts of a string.

Sometimes there are parts of a text that you do not control, maybe they come from a database, or user input?

To control such values, add placeholders (curly brackets `{}`) in the text, and run the values through the `format()` method:

Add a placeholder where you want to display the price:

```
price = 49
txt = "The price is {} dollars"
print(txt.format(price))
```

Output: The price is 49 dollars

You can add parameters inside the curly brackets to specify how to convert the value:

Format the price to be displayed as a number with two decimals:

```
txt = "The price is {:.2f} dollars"
```

Output: The price is 49.00 dollars

Multiple Values

If you want to use more values, just add more values to the `format()` method:

```
print(txt.format(price, itemno, count))
```

And add more placeholders:

```
quantity = 3
itemno = 567
price = 49
myorder = "I want {} pieces of item number {} for {:.2f} dollars."
print(myorder.format(quantity, itemno, price))
```

Output: I want 3 pieces of item number 567 for 49.00 dollars.

Index Numbers

You can use index numbers (a number inside the curly brackets `{0}`) to be sure the values are placed in the correct placeholders:

```
quantity = 3
itemno = 567
price = 49
myorder = "I want {0} pieces of item number {1} for {2:.2f} dollars."
print(myorder.format(quantity, itemno, price))
```

Output: I want 3 pieces of item number 567 for 49.00 dollars.

Also, if you want to refer to the same value more than once, use the index number:

```
age = 36
name = "John"
txt = "His name is {1}. {1} is {0} years old."
print(txt.format(age, name))
```

Output: His name is John. John is 36 years old.

Named Indexes

You can also use named indexes by entering a name inside the curly brackets `{carname}`, but then you must use names when you pass the parameter values as

```
txt.format(carname = "Ford"):
```

```
myorder = "I have a {carname}, it is a {model}."
print(myorder.format(carname = "Ford", model = "Mustang"))
```

Output: I have a Ford, it is a Mustang.