



# Python Strings

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## Strings

Strings in python are surrounded by either single quotation marks, or double quotation marks.

'hello' is the same as "hello" .

You can display a string literal with the `print()` function:

### Example

```
print("Hello")  
print('Hello')
```

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## Assign String to a Variable

Assigning a string to a variable is done with the variable name followed by an equal sign and the string:

## Example

```
a = "Hello"  
print(a)
```

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## Multiline Strings

You can assign a multiline string to a variable by using three quotes:

### Example

You can use three double quotes:

```
a = """Lorem ipsum dolor sit amet,  
consectetur adipiscing elit,  
sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua."""  
print(a)
```

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Or three single quotes:

### Example

```
a = '''Lorem ipsum dolor sit amet,  
consectetur adipiscing elit,  
sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua.'''  
print(a)
```

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**Note:** in the result, the line breaks are inserted at the same position as in the code.

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## Strings are Arrays

Like many other popular programming languages, strings in Python are arrays of bytes representing unicode characters.

However, Python does not have a character data type, a single character is simply a string with a length of 1.

Square brackets can be used to access elements of the string.

### Example

Get the character at position 1 (remember that the first character has the position 0):

```
a = "Hello, World!"  
print(a[1])
```

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## Looping Through a String

Since strings are arrays, we can loop through the characters in a string, with a `for` loop.

## Example

Loop through the letters in the word "banana":

```
for x in "banana":  
    print(x)
```

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Learn more about For Loops in our [Python For Loops](#) chapter.

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## String Length

To get the length of a string, use the `len()` function.

## Example

The `len()` function returns the length of a string:

```
a = "Hello, World!"  
print(len(a))
```

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## Check String

To check if a certain phrase or character is present in a string, we can use the keyword `in`.

## Example

Check if "free" is present in the following text:

```
txt = "The best things in life are free!"  
print("free" in txt)
```

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Use it in an `if` statement:

## Example

Print only if "free" is present:

```
txt = "The best things in life are free!"  
if "free" in txt:  
    print("Yes, 'free' is present.")
```

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Learn more about If statements in our [Python If...Else](#) chapter.

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## Check if NOT

To check if a certain phrase or character is NOT present in a string, we can use the keyword `not in`.

## Example

Check if "expensive" is NOT present in the following text:

```
txt = "The best things in life are free!"  
print("expensive" not in txt)
```

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Use it in an `if` statement:

## Example

print only if "expensive" is NOT present:

```
txt = "The best things in life are free!"  
if "expensive" not in txt:  
    print("No, 'expensive' is NOT present.")
```

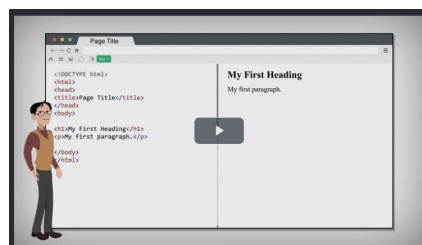
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