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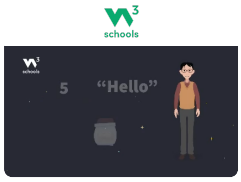

Python Strings

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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

Get your own Python Server

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

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string:

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Example

```
print("It's alright")
print("He is called 'Johnny'")
print('He is called "Johnny"')
```

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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)
```

Try it Yourself »

Multiline Strings

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

Example

You can use three double quotes:

```
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 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.

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

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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)
```

Try it Yourself »

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:
```

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Learn more about If statements in our Python If...Else chapter.

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)
```

Try it Yourself »

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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What will be the result of the following code:

```
x = 'Welcome'
print(x[3])
```

- Wel
- c
- Welcome Welcome Welcome

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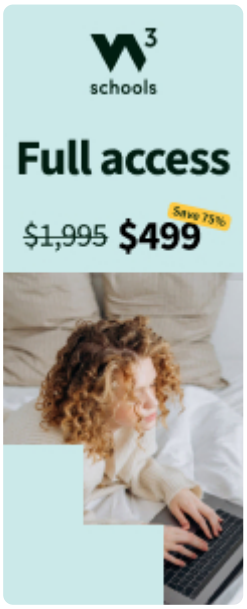

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