

Variables

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Python

Variable, what are they?

Variables hold values for us to use!

In math, $\mathbf{x = 3}$ for the equation $\mathbf{x + 5 = y}$

We use \mathbf{x} as the value $\mathbf{3}$ to solve for \mathbf{y} . Making $\mathbf{y = 8}$.

We use variables similarly in Python!

Variables in Python

Variables are relaxed in Python.

We **don't define** what **type** of variable we are using like Java or C++ does.


C++

```
char symbol = '*';
```

Variable
name

Python

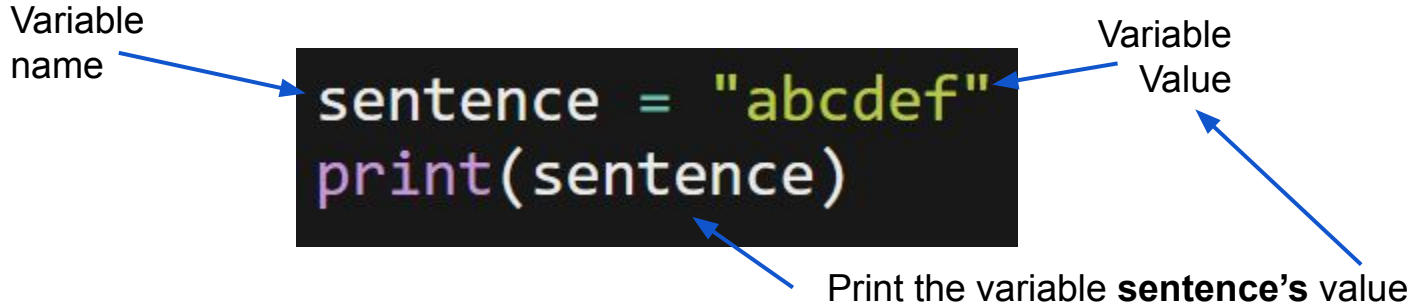
Variable
Value

```
symbol = "*"

```

As mentioned above, Python **does not define variable type**, but it's hidden :)

Using our variables

Similar to Java and C++, we can print out our variable's value.



This prints out `abcdef`

Variables and Concatenation

We can concatenate our variable with another String.

```
sentence = "abcdef"  
print(sentence + "ghijkl")
```

Has value = **abcdef** **ghijkl** is added on!

This prints out **abcdefghijkl**

Lab: Variables

1. Use 3 Strings and 5 print statements
2. Print out the first 5 lines of your favorite song
 - a. Alternate between using variables and not

Example:

<u>Variable</u>	<i>Is this the real life?</i>
<u>Print</u>	<i>Is this just fantasy?</i>
<u>Variable + Print</u>	<i>Caught in a landside,</i>
<u>Variable</u>	<i>No escape from reality</i>