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# Python Variables

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### **Variables**

Variables are containers for storing data values.

## **Creating Variables**

Python has no command for declaring a variable.

A variable is created the moment you first assign a value to it.

#### Example

x = 5y = "John"



Python Sets **Python Dictionaries** Python If...Else Python While Loops Python For Loops

```
print(x)
print(y)
Try it Yourself »
```

Variables do not need to be declared with any particular type, and can even change type after they have been set.

```
Example
 x = 4  # x is of type int
 x = "Sally" # x is now of type str
 print(x)
 Try it Yourself »
```

## Casting

If you want to specify the data type of a variable, this can be done with casting.

```
Example
 x = str(3) # x will be '3'
 y = int(3) # y will be 3
 z = float(3) \# z will be 3.0
 Try it Yourself »
```

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**CODE GAME** 

## Get the Type

You can get the data type of a variable with the type () function.

#### Example

```
x = 5
y = "John"
print(type(x))
print(type(y))
```

Try it Yourself »

You will learn more about <u>data types</u> and <u>casting</u> later in this tutorial.

## Single or Double Quotes?

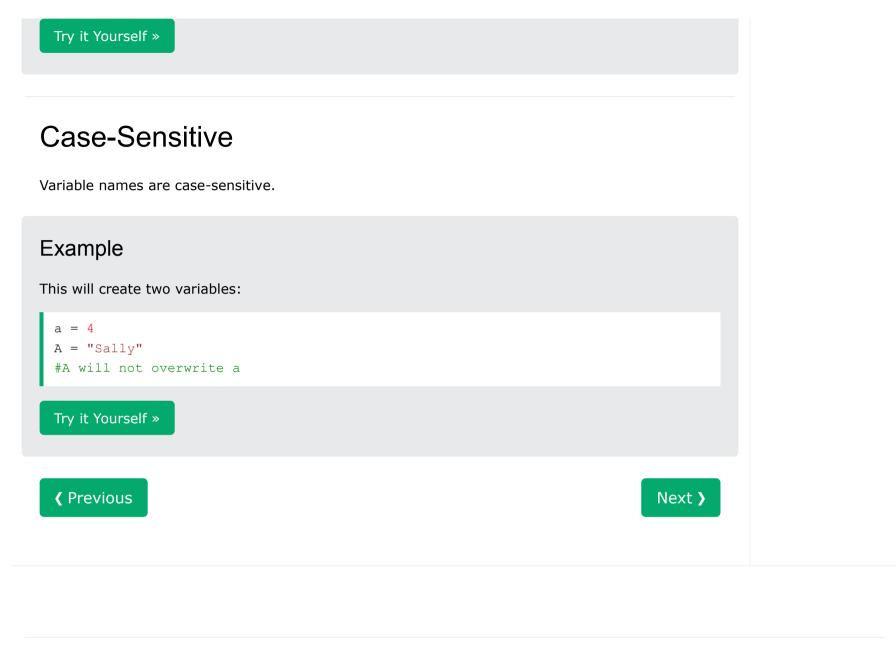
String variables can be declared either by using single or double quotes:

## Example

```
x = "John"
# is the same as
x = 'John'
```



**Play Game** 



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