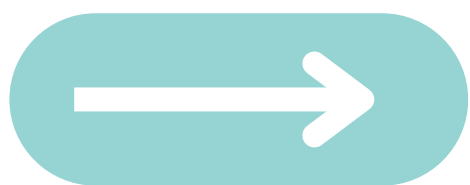




WHAT ARE PYTHON VARIABLES



What Are Variables?

Variables are containers for storing data values.

They allow you to reuse information throughout your code.

In Python, you don't need to specify the type of data—it's determined automatically.

Why Are Variables Important?

Variables make your code reusable and readable.

Instead of writing the same value multiple times, you can assign it to a variable.

This saves time and avoids errors when you need to update your code.

How to Name Variables

Choose meaningful names that describe the data.

Avoid starting with numbers or using spaces.

Stick to lowercase for consistency.

Good naming helps others (and your future self) understand your code!

Assigning Multiple Values

Python lets you assign values to multiple variables in one line:

Example

```
x, y, z = "Orange", "Banana", "Cherry"  
print(x)  
print(y)  
print(z)
```

You can also assign the same value to multiple variables:

Example

```
x = y = z = "Orange"  
print(x)  
print(y)  
print(z)
```

This is useful for managing similar data.

Global and Local Variables

Local variables are created inside a function and used only there.

Global variables are defined outside functions and can be used anywhere in the code.

Example (Global Variable):

Example

Create a variable outside of a function, and use it inside the function

```
x = "awesome"

def myfunc():
    print("Python is " + x)

myfunc()
```

Why Python Variables Are Flexible

Python variables can change type as needed.

Example

```
x = 4          # x is of type int
x = "Sally"    # x is now of type str
print(x)
```

This makes Python simple and adaptable for all kinds of tasks.

Want to Learn More?

This was just a quick overview of Python variables.

Explore more about Python variables, naming rules, multiple assignments, and global variables in detail at

www.w3schools.com