

What is Python?

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

It is used for:

- web development (server-side),
 - software development,
 - mathematics,
 - system scripting.
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What can Python do?

- Python can be used on a server to create web applications.
 - Python can be used alongside software to create workflows.
 - Python can connect to database systems. It can also read and modify files.
 - Python can be used to handle big data and perform complex mathematics.
 - Python can be used for rapid prototyping, or for production-ready software development.
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Why Python?

- Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).
 - Python has a simple syntax similar to the English language.
 - Python has syntax that allows developers to write programs with fewer lines than some other - programming languages.
 - Python runs on an interpreter system, meaning that code can be executed as soon as it is written. This means that prototyping can be very quick.
 - Python can be treated in a procedural way, an object-oriented way or a functional way.
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Creating a Comment

- Comments starts with a #, and Python will ignore them:

```
In [3]: #This is a comment  
print("Hello, World!")
```

Hello, World!

A comment does not have to be text that explains the code,

it can also be used to prevent Python from executing code:

```
In [5]: #print("Hello, World!")  
print("Cheers, Mate!")
```

Cheers, Mate!

Multiline Comments

Python does not really have a syntax for multiline comments.

To add a multiline comment you could insert a # for each line:

```
In [6]: #This is a comment  
#written in  
#more than just one line  
print("Hello, World!")
```

Hello, World!

Or, not quite as intended, you can use a multiline string.

Since Python will ignore string literals that are not assigned to a variable, you can add a multiline string (triple quotes) in your code, and place your comment inside it:

```
In [7]: """  
This is a comment  
written in  
more than just one line  
"""  
print("Hello, World!")
```

Hello, World!