

Hello World in Python

```
print( " Hello World! ")
```

Python Comments

Example 1

```
#This is a comment
```

Example 2

```
#This is a comment
#written in
#more than just one line
```

Example 3

```
" " " This is a comment
written in
more than just one line " " "
```

Python Variables

```
x = "How old are you ?" #x is of type str
print(x)
>>> How old are you ?
x = 25 #x now is of type int
print(x)
>>> 25
```

Python Data Types

Text Type:	str
Numeric Types:	int, float, complex
Sequence Types:	list, tuple, range
Mapping Type:	dict
Set Types:	set, frozenset
Boolean Type:	bool
Binary Types:	bytes, bytearray, memoryview

Get the data type of a variable "var"

```
type(var)
```

Python Data Types Examples

Example	Data Type
x = " Co lor "	list
x = 1	int
x = 1.2	float
x = 2j	complex
x = ["Bl ue " , " Red " , " Ye l lo w"]	list
x = ("Bl ue", " Red " ,"Ye llo w")	tuple
x = range(8)	range
x={" Age " :25 ,"He igh t":1.72}	dict
x = {"Pi nk", " Red " }	set
x = frozen set ({ "P ink " ,"Re d"})	frozenset
x = True	bool
x = b"Co lor "	bytes
x = bytearray(8)	bytearray
x = memory vie w(b yte s(8))	memoryview
Get the data type of x :	memoryview
<pre>x = " Col or" print(typ e(x)) >>> str</pre>	

Python Casting

Casting is used to specify a type on to a variable and this is done using constructor functions.

Examples

```
x = int(5)      #x = 5
x = int(2.8)    #x = 2
x = float(5)    #x = 5.0
x = float(2.8)  #x = 2.8
```



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 Page 1 of 1.

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