

Python

{ Data Types

Data Types

&Integer – whole number

&Float – decimal number

&Boolean – True/False (1/0)

&String – one or more characters

Basic (Primitive)

&Date

&Time

Data types

&Integer – 4, 5, 6, 99, 2004

&Float – 2.75, 0.00010, 33.3333

&Boolean – 0,1

&String (plain text) – ‘a’, ‘pizza’, ‘once upon a time....’

Using the print statement:

```
print (string)
```

```
print(integer)
```

```
print (boolean)
```

```
print(str(float))
```

Why use data types?

↳ Determines the value stored in the variable – examples:

- Age is a whole number.
- Money is a decimal.
- On/Off electrical switch is either true or false.
- Birthday is a date
- Appointment can be both a date and time

Why use data types?

- ⌘ Determines the operations that can be performed on that variable
- ⌘ String operations
- ⌘ Math operation on integer and float
- ⌘ Boolean operations: AND, OR, NOT
- ⌘ Check out your **Python Standard Library** for documented operations on data types

Try This – FOR Loop & diff Data types

```
for x in range (5):  
    print(x)
```

Integer

```
name = "Violet"  
for char in name:  
    print(char)
```

String

```
a_list = ["Manny", "Moe", "Jack"]  
for name in a_list:  
    print(name)
```

List of Strings

```
'a' in 'banana'
```

boolean operator 'in'