Lecture 1b Basic Python : Boolean Truth Values

Boolean data type is named after the mathematician George Boole.

The Boolean data type has only two values:

True and False

Do Not Write true, false, "True" or "False" !!!

Comparison Operators

Operator	Meaning
==	Equal to
! =	Not equal to
<	Less than
>	Greater than
<=	Less than or equal to
>=	Greater than or equal to

The Difference Between The == And = Operators

Operator	Meaning
==	(equal to): asks whether two values are the same as each other.
	(assignment): puts the value on the right into the variables on the left. eg. distance = 5

Boolean Operators

Operator	Meaning
and	The and operator evaluates an expression to be True if both the two Boolean values are True.
or	The or operator evaluates an expression to be True if either of the two Boolean values is True.
not	The not operator simply evaluates to the opposite of the Boolean value. eg. not True is False

The and Operator's Truth Table

Expression	Evaluates to	u must
True and True	True	It must be
True and False	False	False
False and True	False	once you
False and False	False	see a False!

The or Operator's Truth Table

Expression	Evaluates to
True or True	True
True or False	True
False or True	True
False or False	False

It must be True once you see a True!

The not Operator's Truth Table

Expression	Evaluates to
not True	False
not False	True True

What is not not True?

More about Boolean Truth Value

In Python 3.x True and False will always be equal to 1 and 0

Anything that is not 0 or not empty will also be evaluated as True