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Pierian-Data added image link to all notebooks



 1 contributor

387 lines (387 sloc) | 7.34 KB





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Comparison Operators

In this lecture we will be learning about Comparison Operators in Python. These operators will allow us to compare variables and output a Boolean value (True or False).

If you have any sort of background in Math, these operators should be very straight forward.

First we'll present a table of the comparison operators and then work through some examples:

Table of Comparison Operators

In the table below, $a=3$ and $b=4$.

Operator	Description	Example
<code>==</code>	If the values of two operands are equal, then the condition becomes true.	$(a == b)$ is not true.
<code>!=</code>	If values of two operands are not equal, then condition becomes true.	$(a != b)$ is true
<code>></code>	If the value of left operand is greater than the value of right operand, then condition becomes true.	$(a > b)$ is not true.
<code><</code>	If the value of left operand is less than the value of right operand, then condition becomes true.	$(a < b)$ is true.
<code>>=</code>	If the value of left operand is greater than or equal to the value of right operand, then condition becomes true.	$(a >= b)$ is not true.
<code><=</code>	If the value of left operand is less than or equal to the value of right operand, then condition becomes true.	$(a <= b)$ is true.

Let's now work through quick examples of each of these.

Equal

In [1]: `> == >`

```
< == <
```

Out[1]: True

In [2]: `1 == 0`

Out[2]: False

Note that `==` is a *comparison* operator, while `=` is an *assignment* operator.

Not Equal

In [3]: `2 != 1`

Out[3]: True

In [4]: `2 != 2`

Out[4]: False

Greater Than

In [5]: `2 > 1`

Out[5]: True

In [6]: `2 > 4`

Out[6]: False

Less Than

In [7]: `2 < 4`

Out[7]: True

In [8]: `2 < 1`

Out[8]: False

Greater Than or Equal to

In [9]: `2 >= 2`

Out[9]: True

In [10]: `2 >= 1`

True

Out[10]:

Less than or Equal to

In [11]: `2 <= 2`

Out[11]: True

In [12]: `2 <= 4`

Out[12]: True