Comparison and logical operators Notes

Tutorial 10, Session 10.2

* 1. **Comparison operators**

= = (is equal to)

> (is greater than)

>= (is greater than or equal to)

!=  (is not equal to)

Instead of the symbol “=” meaning “is equal to”, in JavaScript the symbol “= =” means “is equal to”.

* 1. **Logical operators**

1. **and: &&**

|  |  |  |
| --- | --- | --- |
| x | y | x && y |
| T | T | T |
| T | F | F |
| F | T | F |
| F | F | F |

&& (and) is true only when both are true

1. **or: ||**

|  |  |  |
| --- | --- | --- |
| x | y | x **||** y |
| T | T | T |
| T | F | T |
| F | T | T |
| F | F | F |

|| (or) is true when at least one is true

1. **not is the symbol** **!**

|  |  |
| --- | --- |
| x | !x |
| T | F |
| F | T |

If x is T then !x is F and

If x is F then !x is T

Examples:

!T = F

!F = T