Boolean data type

Booleans have only two values – true and false

Booleans have three **logical operators** - ! (not), && (and), and || (or)

## Not operator

The opposite value of a given input.

!true = false

!false = true

## And operator

Results in true if all the values in a given input is true.

Otherwise, false.

true && true = true

true && false = false

false && true = false

false && false = false

## Or operator

Results in true if at least one value in a given input is true.

false || false || false || true = true

true || true = true

false || false = false

!, &&, || is the order of precedence

! – most important

&& - second most important

|| - least important

# De Morgan’s Law

!(A && B) = !A || !B

!(A || B) = !A && !B

|| goes to && and vice versa.