

# Logical Expressions in R: Takeaways

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## Syntax

### RELATIONAL OPERATORS

- Less than: `5 < 5`
- Greater than: `5 > 5`
- Less than or equal to: `5 <= 5`
- Greater than or equal to: `5 >= 5`
- Equal to: `5 == 5`
- Not equal to: `5 != 5`

### LOGICAL OPERATORS

- Logical NOT: `!TRUE`
- Logical AND: `TRUE && FALSE`
- Logical OR: `TRUE || FALSE`

## Concepts

- Logical operations:

#### NOT

`!TRUE` yields `FALSE`  
`!FALSE` yields `TRUE`

#### AND

`TRUE && TRUE` yields `TRUE`  
`TRUE && FALSE` yields `FALSE`  
`FALSE && TRUE` yields `FALSE`  
`FALSE && FALSE` yields `FALSE`

#### OR

`TRUE || TRUE` yields `TRUE`  
`TRUE || FALSE` yields `TRUE`  
`FALSE || TRUE` yields `TRUE`  
`FALSE || FALSE` yields `FALSE`

## Resources

- [Relational operators in R](#)
- [Logical operators in R](#)