

JavaScript

Understanding How the Language Works

JavaScript

Logical Operators

- Boolean Values: True / False
- Operator: combines two values to make a third value
- Logical Operator: combines two booleans to make another boolean

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Logical Operators

Operator Examples

- Numeric
 - ▶ $3 + 2 = 5$
 - ▶ $3 - 2 = 1$
- String
 - ▶ "Hello" + "World" = "Hello World"
- Boolean
 - ▶ True or False = True
 - ▶ True and False = False

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Logical Operators

Boolean Logic

- AND
 - ▶ Symbol: &
 - ▶ Both values must be true
 - ▶ True & True = True
 - ▶ True & False = False

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Logical Operators

Boolean Logic

- **AND** (Both values must be true)
 - ▶ Symbol: `&`
- **OR**
 - ▶ Symbol: `|`
 - ▶ Either value can be true
 - ▶ `True | True = True`
 - ▶ `True | False = True`
 - ▶ `False | False = False`

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Logical Operators

Boolean Logic

- **AND** (Both values must be true)
 - ▶ Symbol: &
- **OR** (Either value can be true)
 - ▶ Symbol: |
- **NOT**
 - ▶ Symbol: !
 - ▶ Reverses value to its opposite
 - ▶ !False = True