

## JavaScript Comparison Operators – Notes

### What are Comparison Operators?

- Used to **compare two values**.
  - Return **true** or **false** based on the condition.
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### Common Operators

#### 1. Greater Than (>) / Less Than (<)

Example:

```
let age = 20;  
console.log(age > 18); // true
```

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- Used to check if one value is larger/smaller than another.

#### 2. Greater Than or Equal To (>=) / Less Than or Equal To (<=)

Example:

```
let age = 18;  
console.log(age >= 18); // true
```

- - Checks if a value is greater/less **or equal**.
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### Equality Operators

#### 1. Double Equals (==)

- Compares **values only**.

Performs type conversion if needed.

```
console.log(10 == "10"); // true (only values are compared)
```

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## 2. Triple Equals (===)

Compares **values AND types** (strict equality).

```
console.log(10 === "10"); // false (number vs string)
console.log(10 === 10);   // true
```

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## Not Equal Operators

### 1. Not Equal (!=)

Checks if values are different.

```
console.log(5 != 10); // true
console.log(5 != 5);  // false
```

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### 2. Strict Not Equal (!==)

Checks if values OR types are different.

```
console.log(5 !== "5"); // true (type mismatch)
console.log(5 !== 5);   // false
```

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## Key Points

- `==` → compares **values only**.
- `===` → compares **values + type** (strict).
- `!=` → checks if **values are not equal**.
- `!==` → checks if **values or type are not equal**.
- `<`, `>`, `<=`, `>=` → used for **numerical comparisons**.