JavaScript

Conditional Statements

PHP web development 2020/2021

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truthy & falsy

truthy

truthy /expressions that evaluate to true/

```
if (true)
if ({})
if ([])
if (42)
if ("0")
if ("false")
if (new Date())
if (-42)
if (12n)
if (3.14)
if (-3.14)
if (Infinity)
if (-Infinity)
```

resource

falsy

falsy /expressions that evaluate to false/

false /The keyword false/

0 /The number zero/

-0 /The number negative zero/

0n /BigInt, when used as a boolean, follows the same rule as a Number. 0n is *falsy*./

"" /Empty string value/

null /the absence of any value/

undefined /the primitive value/

NaN /not a number/

resource

comparison and logical operators

Comparison operators

Operator	Description	Comparing	Returns
==	equal to	x == 8	false
		x == 5	true
		x == "5"	true
===	equal value and equal type	x === 5	true
		x === "5"	false
!=	not equal	x != 8	true
!==	not equal value or not equal type	x !== 5	false
		x !== "5"	true
		x !== 8	true
>	greater than	x > 8	false
<	less than	x < 8	true
>=	greater than or equal to	x >= 8	false
<=	less than or equal to	x <= 8	true

Logical operators

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Operator	Description	Example
&&	and	(x < 10 && y > 1) is true
||	or	(x == 5 || y == 5) is false
!	not	!(x == y) is true

Ternary operator

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Syntax

```
variablename = (condition) ? value1:value2
```

Example

```
var voteable = (age < 18) ? "Too young":"Old enough";
```

Result

```
17// Too young
25// Old enough
```

Comparing different types


```
2 < 12 //true

2 < "12" //true

2 < "John" //false

2 > "John" //false

2 == "John" //false

"2" < "12" //false

"2" > "12" //true

"2" == "12"//false
```

if/else if/else

if/else if/else

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Syntax

```
if (condition1) {
  //
} else if (condition2) {
  //
} else {
  //
}
```

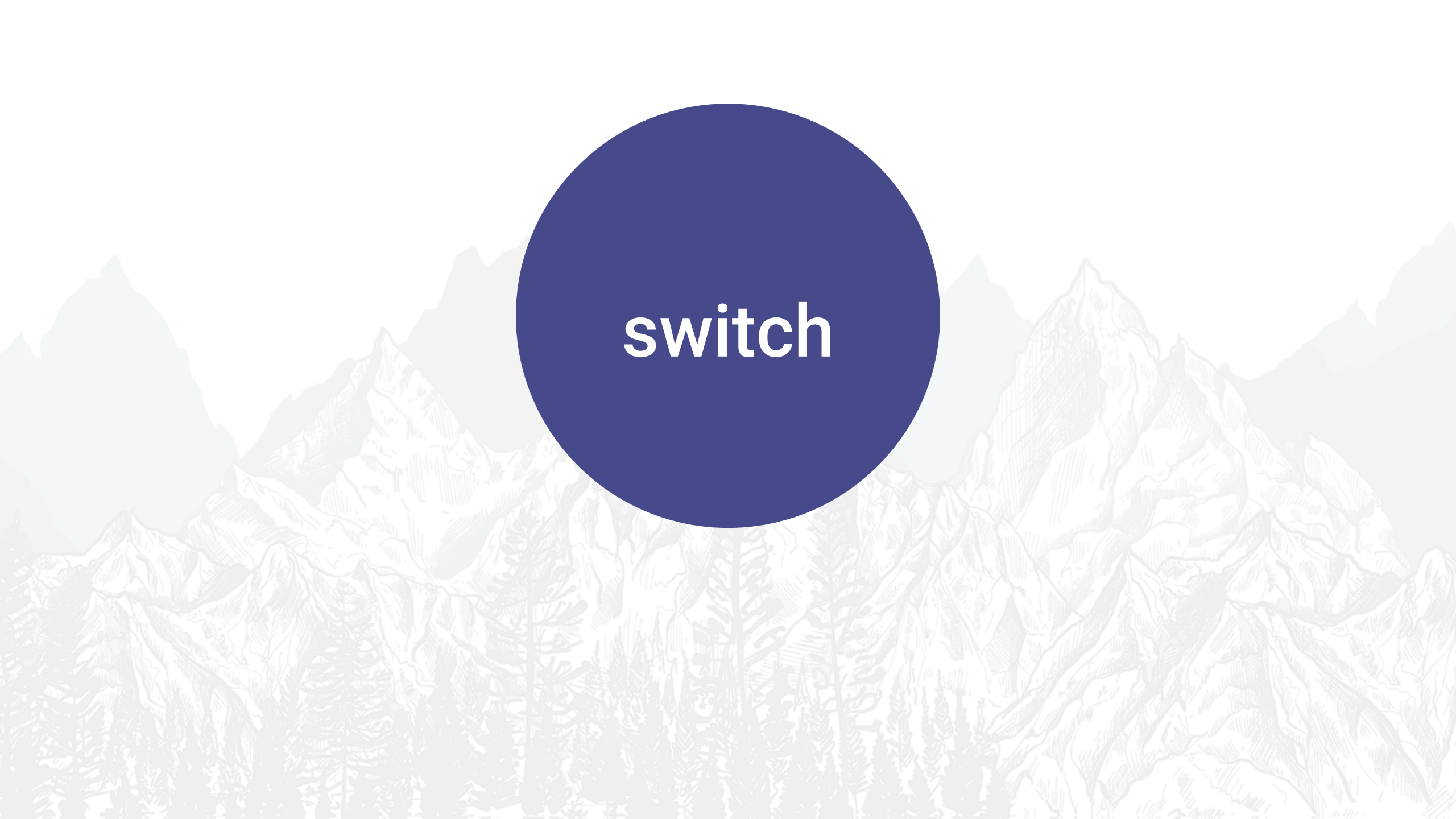
if/else if/else

Example

```
var greeting;

if (time < 10) {
  greeting = "Good morning";
} else if (time < 20) {
  greeting = "Good day";
} else {
  greeting = "Good evening";
}

alert( greeting );
```


switch

switch

Syntax

```
switch(expression) {
  case x:
    // code block
    break;
  case y:
    // code block
    break;
  default:
    // code block
}
```

switch

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Example

The getDay() method returns the weekday as a number between 0 and 6.

(Sunday=0, Monday=1, Tuesday=2 ..)

```
switch (new Date().getDay()) {
  case 0:
    day = "Sunday";
    break;
  case 1:
    day = "Monday";
    break;
  case 2:
     day = "Tuesday";
           break;
  case 3:
    day = "Wednesday";
           break;
  case 4:
    day = "Thursday";
    break;
  case 5:
    day = "Friday";
           break;
  case 6:
    day = "Saturday";
}
```

switch

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Example 2

Switching Details

If multiple cases matches a case value, the **first** case is selected.

If no matching cases are found, the program continues to the **default** label.

If no default label is found, the program continues to the statement(s) **after the switch**.

```
switch (new Date().getDay()) {
  case 6:
    text = "Today is Saturday";
    break;
  case 0:
      text = "Today is Sunday";
      break;
  default:
      text = "Looking forward to the
Weekend";
}
```

switch

Example 3

Strict Comparison

Switch cases use **strict** comparison (===).

The values must be of the same type to match.

A strict comparison can only be true if the operands are of the same type.

In this example there will be no match for x:

more info

```
var x = "0";
switch (x) {
  case 0:
    text = "Off";
        break;
  case 1:
        text = "On";
    break;
  default:
        text = "No value found";
}
```

string properties and methods

String properties and methods

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Properties

length *returns the number of characters in a string*

some JS String Methods

indexOf() method returns the position of the first occurrence of a specified value in a string. Returns -1 if the value to search for never occurs.

replace() method searches a string for a specified value, or a *regular expression*, and returns a new string where the specified values are replaced

slice() Extracts a part of a string and returns a new string

split() Splits a string into an array of substrings

more info

some JS String Methods

substr() Extracts the characters from a string, beginning at a specified start position, and through the specified number of character

trim() Removes whitespace from both ends of a string

toLowerCase() Converts a string to lowercase letters

toUpperCase() Converts a string to uppercase letters

Questions?


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