

Programming JS

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Sum up last week

Data types – primitive // number, string, boolean, undefined, null, (symbol)

JS syntax // case sensitive, hypens not allowed, semicolon

Operators

- Arithmetic // + - * ** / % ++ --
- Assignment // = += -= *= /= %= **=
- Comparison // == === != !== < > <= >= ?
- Type // typeof()

`prompt()`, `alert()`, `confirm()`

Numbers

https://github.com/margittennosaar/JS.REACT25K/blob/main/01_week/numbers.md

Numbers

- Converting numbers to strings and Convert strings to numbers
- NaN
- parseInt() and parseFloat()
- toFixed()
- Math object

Common Math methods

`Math.round(x)` - Returns the value of x rounded to its nearest integer.

`Math.ceil(x)` - Returns the smallest integer greater than or equal to x.

`Math.floor(x)` - Returns the largest integer less than or equal to x.

`Math.abs(x)` - Returns the absolute value of x.

`Math.sqrt(x)` - Returns the square root of x.

`Math.pow(x, y)` - Returns the value of x to the power of y.

`Math.min(...values)` - Returns the lowest-valued number passed into it.

`Math.max(...values)` - Returns the highest-valued number passed into it.

`Math.random` - Returns a pseudo-random number between 0 and 1.

Strings

https://github.com/margittennosaar/JS.REACT25K/blob/main/02_week/strings.md

Strings

Strings are used to store text.

- Single quotes: 'Hello'
- Double quotes: "World"
- Backticks (**Template Literals**): `Hello, World!`

```
let single = 'Single quoted';
let double = "Double quoted";
let template = `Template literal`;

let language = 'JavaScript';
`I am learning ${language}`; // "I am learning JavaScript";
```

String methods

.length // Returns the number of characters in a string.

.toUpperCase() // Converts to uppercase.

.toLowerCase() // Converts to lowercase.

.substring(start, end) // Extracting parts of strings

.slice(start, end) // Extracting parts of strings

.trim() // Removes extra spaces.

.includes(word) // Checking and searching

.startsWith(word) // Checking and searching

.endsWith(word) // Checking and searching

.split(separator) //Divides a string into an array of substrings.

.replace(old, new) // Changes part of the string.

.replaceAll(old, new) // Changes all parts of the string.