

Programming JS

Margit Tennosaar

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/margittenosaar/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.