

HIGHER-ORDER FUNCTIONS

IN JAVASCRIPT

Functions that can take function as an argument or return a function as a value is called a Higher order function.

Taking a function as an argument or returning a function as value is possible because JavaScript consider function as a first class citizen.

You can read more about first class citizen using link in comment...

Let's see example of passing function as an argument..

```
function mathOperation (operation, initial, numbers) {
 let total = initial;
 for (const number of numbers) {
   total = operation(total, number);
 console.log(total);
function sum(n1, n2) {
 return n1 + n2;
function multiply(n1, n2) {
 return n1 * n2;
mathOperation(multiply, 1, [3, 2]); // => 6
```

Purpose of passing function as an argument?

In the example you can see we have used different method - sum, multiply etc. and with use of one function only, so we can reuse that code again for better for maintainability and readability.

Some Already provided Higher order functions

- setTimeout()
- forEach()
- map()
- filter()
- reduce()