

Programming JS

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Basic functions

https://github.com/margitennoscar/JS_REACT25K/blob/main/02_week/basic_functions.md

Functions

- Reusable blocks of code.
- Used to perform a specific task.

```
function sum(x, y) {  
  return x + y;  
}
```

Calling functions

- Call a function by its name with parentheses.
- Pass arguments inside the parentheses.

```
function sum(x, y) {  
  return x + y;  
}
```

```
sum(3, 4);  
console.log(sum(3, 4)); // 7
```

Return keyword

- Use return to send a value back to the caller.
- Exits the function when return is executed.

```
function multiply(a, b) {  
  return a * b;  
  console.log("This will not run.");  
}  
  
console.log(multiply(2, 3)); // 6
```

Arrow functions

```
// Standard function  
const sum = (a, b) => {  
  return a + b;  
};
```

```
// Implicit return  
const add = (a, b) => a + b;
```

```
const isEven = (num) => num % 2 === 0;
```

- Arrow functions can return a value without the return keyword.
- Only for single-line expressions.

Default parameters

- Provide default values for parameters if none are passed.

```
function greet(name = "Guest") {  
  return `Hello, ${name}!`;  
}
```

```
console.log(greet()); // Hello, Guest!
```

Combining functions

```
const trimText = str => str.trim();  
const toLowerCase = str => str.toLowerCase();  
  
function cleanText(str) {  
  return toLowerCase(trimText(str));  
}  
console.log(cleanText("  JavaScript!  ")); // javascript!
```