

# Programming JS

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# Basic functions

[https://github.com/margittennosaar/JS.REACT25K/blob/main/02\\_week/basic\\_functions.md](https://github.com/margittennosaar/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!
```