# Day 06 Notes

✓ Key  Takeaway	Functions
Learning Date	@June 28, 2025
Module	Module 1: JavaScript Fundamentals
Status	Done
✓ Topic	<b>☑ Day 6:</b> Functions & Arrow Functions
	https://www.youtube.com/watch? v=6UJ9SyHvkJY&list=PLIJrr73KDmRw2Fwwjt6cPC_tk5vcSICCu&index=6

## **Function:**

Parameters: The input that we passed to a function while declaring it.

Arguments: The actual values that replace the declared parameters when invoking or calling a function.

The **rest parameter** in JavaScript, introduced in ES6 (ECMAScript 2015), allows a function to accept an indefinite number of arguments as an array. It is indicated by three dots (...) followed by a parameter name and must be the last parameter in a function definition.

InnerFunction:

## Call back func:

A callback function in JavaScript is a function passed as an argument to another function, which is then invoked inside the outer function to complete some kind of routine or action.

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### Side-Effect:

"When a piece of code affects something outside the function's scope, it causes a side effect."

## ★ What is a Higher-Order Function?

A higher-order function is a function that does at least one of these:

- 1 Takes one or more functions as arguments (callback functions)
- Returns a function as its result

In short: Functions that work with other functions!

#### IIFE:

An IIFE, or Immediately Invoked Function Expression, is a JavaScript design pattern where a function is executed as soon as it is defined. It creates a private scope for variables and functions declared within it, preventing them from polluting the global scope.

```
(function() {
// Code within the IIFE
})();
```

#### IIFE

- Call Stack
- Recursion

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