FUNCTION IN JAVA-SCRIPT.

Method	Syntax	Use Case
Function Declaration	`function add(a, b) { return a + b; }`	Used when a function needs to be hoisted and called before its definition. Best for reusable utility functions.
Function Expression	`const multiply = function(a, b) { return a * b; };`	Used when functions are assigned to variables, commonly for callbacks or when functions don't need hoisting.
Arrow Function	`const subtract = (a, b) => a - b;`	Used for shorter syntax, especially in callbacks and functional programming. Does not bind `this`.
Immediately Invoked Function Expression (IIFE)	`(function() { console.log("IIFE executed"); })();`	Used to create a private scope and execute the function immediately. Prevents global variable pollution.
Generator Function	`function* generator() { yield 1; yield 2; }`	Used when working with iterators and handling asynchronous operations with `yield`.
Constructor Function	`function Person(name) { this.name = name; }`	Used to create objects with the `new` keyword. Alternative to classes in ES5.
Class Method	`class Car { drive() { console.log("Driving"); } }`	Used inside ES6 classes to define methods within a class blueprint.

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Object Method (Shorthand)	`const obj = { greet() { console.log("Hello"); } };`	Used to define functions inside an object without using the `function` keyword.