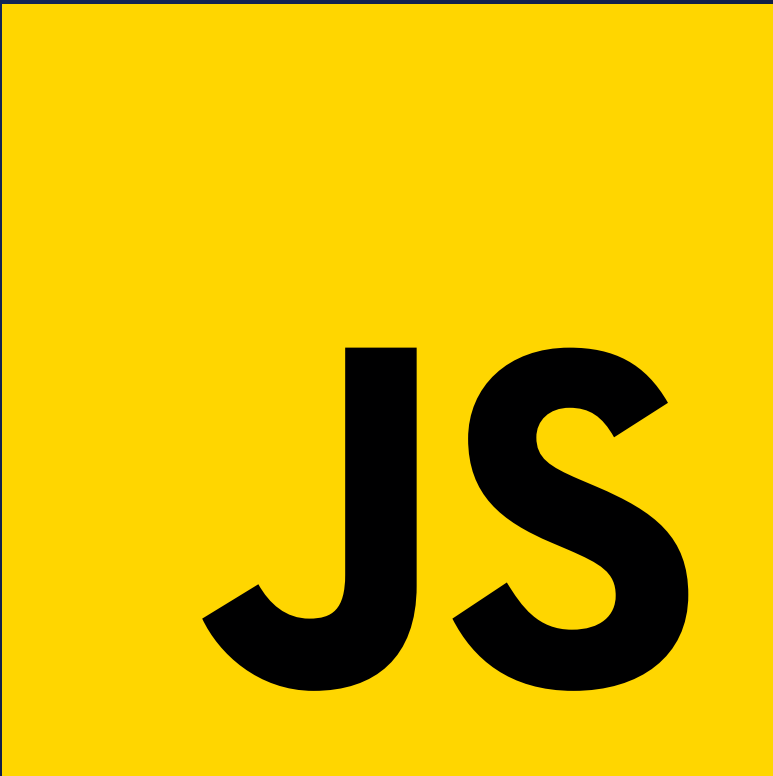


Types Of Functions

6 Ways



JS



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JS **Functions** | 6 Ways

- Named Functions
- Anonymous Functions
- Arrow Functions
- Immediately Invoked Functions

Expressions (IIFE):

- High Order Functions
- Constructor Functions



Named Functions

Locacy / Traditional way



```
function myFunction() {  
  console.log("CodeBustler");  
}  
  
myFunction();
```



Anonymous Functions

Anonymous Functions | without name used as function expression or arguments.

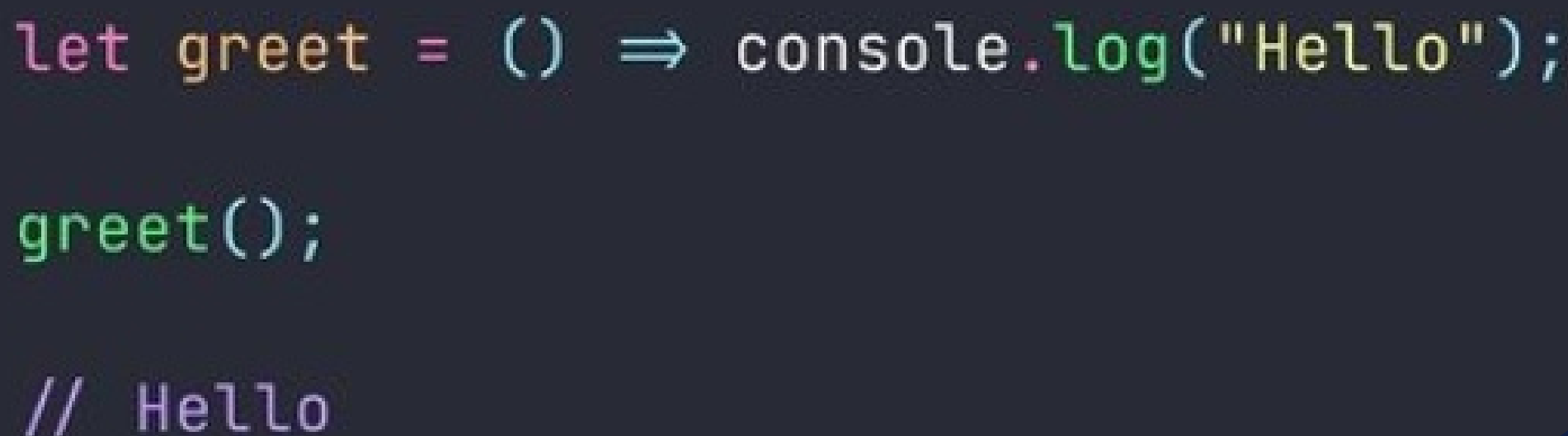


```
let greet = function (name) {  
  console.log(`Hello ${name}`);  
};  
  
greet("Sai");  
  
// Hello Sai
```



Arrow Functions

Arrow Functions Introduced in ES6,
Shorter Syntax & one-lined functions

A code editor window with a dark theme. The title bar shows three colored circles (red, yellow, green) and a tab labeled 'function.js' with a 'JS' icon. The code inside is:

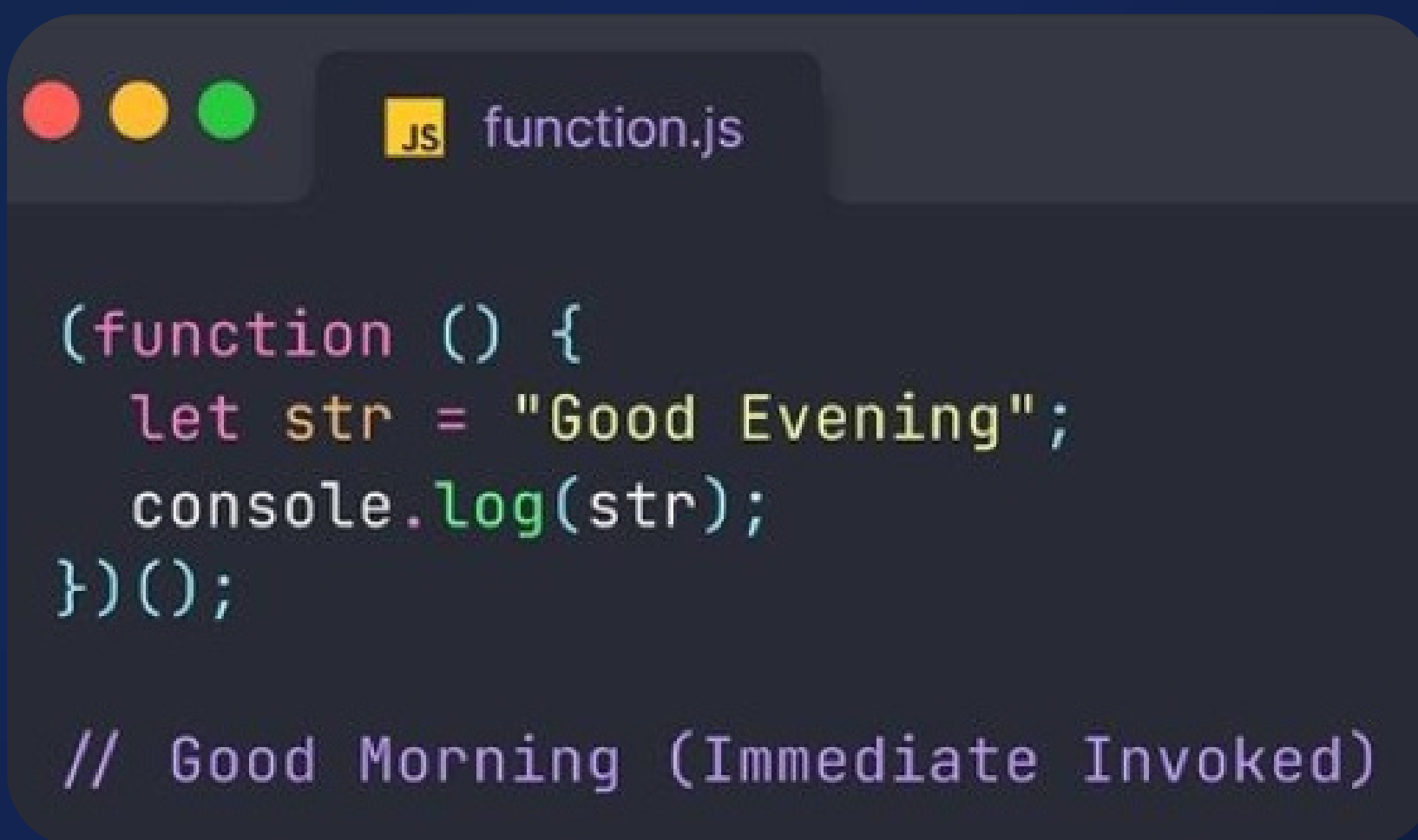
```
let greet = () => console.log("Hello");  
  
greet();  
  
// Hello
```

```
let greet = () => console.log("Hello");  
  
greet();  
  
// Hello
```



IIFE Functions

Immediately Invoked Function Expressions (IIFE) Executed immediately after their creation used to create private scopes and avoid polluting the global namespace.



```
(function () {  
    let str = "Good Evening";  
    console.log(str);  
})();  
  
// Good Morning (Immediate Invoked)
```



High Order Functions

Functions that take one or more functions as arguments or return a function.

eg: `map()`, `filter()`, `reduce()`

```
let ary = [10, 20, 23];
```

```
let newArray = ary.map((element) => element + 10);  
console.log(newArray);
```

```
// [20, 30, 33]
```



Constructor Functions

Used as blueprints for creating objects with similar properties and methods they are invoked using the new keyword to create instances of objects

```
function Person(name, place) {  
  this.name = name;  
  this.place = place;  
}  
  
let user1 = new Person("CodeBustler", "India");  
  
console.log(`Hello everyone this is ${user1.name},  
            and i am from ${user1.place}`);  
  
// Hello everyone this is CodeBustler, and i am from India
```

