Programming

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JavaScript ES6

- Variables (var, let, const)

  - var: function-scoped

  - let and const: block-scoped

- Data Types

  - Primitive data types: string, number, boolean, null, undefined, symbol

  - Reference types: arrays, functions

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Functions

- Function Declarations

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

- Function Expression

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

- Arrow Function

```
const greet = (name) => {
        `Hello, ${name}!`;
}
```

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Basic Coding Concepts

- Control structures: `if, else, else if, switch`

- Loops: `for, while, forEach`

- Arrays method: `map(), filter(), reduce()`

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Class

- Define class

```
class Person {
      constructor(name) {
            this.name = name;
            }
      greet() {
            console.log(`Hello, I'm ${this.name}`);
      }
}
```

- Define class

```
class Student extends Person{
            constructor(name, major) {
                  super(name);
                  this.major = major;
            }
            greet() {
                  console.log(`Hello, I'm ${this.name}, and I study ${this.major}`);
            }
}
```

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