JS

Functional programming with JavaScript

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What is Functional Programming?

Functional programming is not a new concept, but in the past few years, it has seen a sharp growth in usage and general interest.

Functions are **self contained** modules of code that accomplish a specific task. Functions usually **take in** data, process it, and **return** a result. Once a function is written, it can be used over and over and over again.

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Pure Functions

Pure functions are one of the most important concepts in functional programming and they are functions that, given a specific input, will always return the same output.

```
// pure function
const greeting = (person) => `How are you ${person}`;
greeting("Bob") // "How are you Bob"
```

with same input result will always be same

```
// not pure
let count = 0;

const increaseCount = (value) => count += value;
increaseCount(1);
increaseCount(1);
```

returns different value with same input

High-Order Functions

A high-order function is a function that receives another **function as a parameter** or returns a **function as a return value**.

```
const persons = [
  {firstname : "Malcom", lastname : "Reynolds"},
  {firstname : "Kaylee", lastname : "Fyre"},
  {firstname : "Jayne", lastname : "Cobb"}
];
persons.map((item) => [item.firstname, item.lastname].join(" "));
```

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Composition

Composition can also be expressed as **combination**—it's a process of combining **multiple functions** in a hierarchy to produce a new function or perform a computation.

```
const stichName = (name) => name.split(' ').join('_');
const lowerName = (name) => name.toLowerCase();
console.log(lowerName(stichName('Bob Gaj'))); // bob_gaj
```

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Immutability

Immutability is a concept where you **can't change the object** once it's created. When you want to change something or add you should **create a new object**.

```
const dog = {
  breed: 'poodle',
};

const newDog = Object.assign({}, dog, {
  breed: 'dobermann'
});
```

```
const dog = {
  breed: 'poodle',
};

const newDog = dog;
newDog.breed = 'dobermann';
```

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