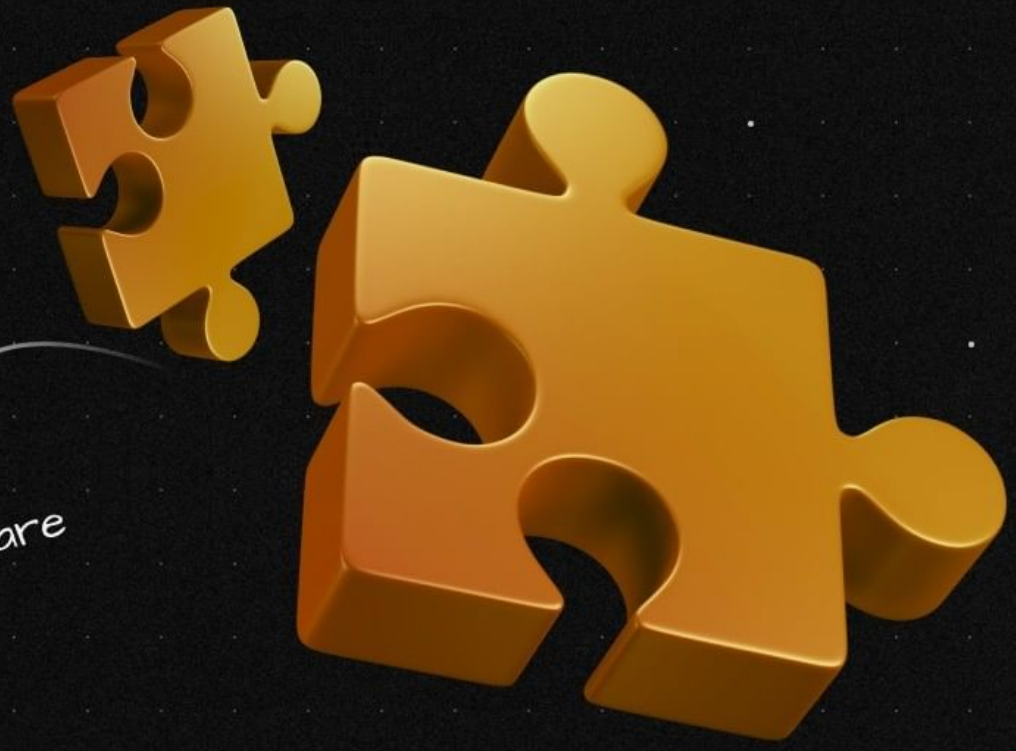
JS

Functional programming for 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 functoin is written, it can be used over and over again.

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Pure Functions

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

Pure

```
const greeting = (person) => 'How are you ${person}';
greeting("Bob") // "How are you Bob"
// with same input result is always same
```

Not pure

```
let count = 0;

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

// returns different value with same input
```

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Higher-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: "Frye"},
  {firstname : "Jayne", lastname: "Cobb"},
];

persons.map((item) => [item.firstname, item.lastname].join(" "));
```

function as parameter

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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 functoin 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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