

Functional Programming

In JavaScript

What is functional programming?

- A way of abstracting and reducing complexity by looking at problems as a series of operations on data.
- A form of declarative programming
- Requires: first-class functions

Functional Programming is NOT:

- Incompatible with or opposite of OO programming.
- Easy to implement in some languages.
- The best tool for every job.

Functional:

- Abstracts operations
- Adding operations is made easy
- Reuse operations in other operations

OO

- Abstracts things
- Adding things is made easy
- Inherit operations from your parent classes.

Important things in functional programming

- Closures
- Tail call recursion (not available in vanilla JS)
- Callbacks

Functional Programming in JavaScript

- Don't prefer recursion in JS.
- Use functions as arguments and return values of other functions.