### Functional Programming

Functional Programming is another popular approach to software development. In Functional Programming, code is organized into smaller, basic functions that can be combined to build complex programs.

In this course, you'll learn the core concepts of Functional Programming including pure functions, how to avoid mutations, and how to write cleaner code with methods like .map() and .filter().

Collapse course

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1. [Learn About Functional Programming](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/learn-about-functional-programming)
2. [Understand Functional Programming Terminology](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/understand-functional-programming-terminology)
3. [Understand the Hazards of Using Imperative Code](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/understand-the-hazards-of-using-imperative-code)
4. [Avoid Mutations and Side Effects Using Functional Programming](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/avoid-mutations-and-side-effects-using-functional-programming)
5. [Pass Arguments to Avoid External Dependence in a Function](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/pass-arguments-to-avoid-external-dependence-in-a-function)
6. [Refactor Global Variables Out of Functions](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/refactor-global-variables-out-of-functions)
7. [Use the map Method to Extract Data from an Array](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/use-the-map-method-to-extract-data-from-an-array)
8. [Implement map on a Prototype](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/implement-map-on-a-prototype)
9. [Use the filter Method to Extract Data from an Array](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/use-the-filter-method-to-extract-data-from-an-array)
10. [Implement the filter Method on a Prototype](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/implement-the-filter-method-on-a-prototype)
11. [Return Part of an Array Using the slice Method](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/return-part-of-an-array-using-the-slice-method)
12. [Remove Elements from an Array Using slice Instead of splice](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/remove-elements-from-an-array-using-slice-instead-of-splice)
13. [Combine Two Arrays Using the concat Method](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/combine-two-arrays-using-the-concat-method)
14. [Add Elements to the End of an Array Using concat Instead of push](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/add-elements-to-the-end-of-an-array-using-concat-instead-of-push)
15. [Use the reduce Method to Analyze Data](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/use-the-reduce-method-to-analyze-data)
16. [Use Higher-Order Functions map, filter, or reduce to Solve a Complex Problem](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/use-higher-order-functions-map-filter-or-reduce-to-solve-a-complex-problem)
17. [Sort an Array Alphabetically using the sort Method](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/sort-an-array-alphabetically-using-the-sort-method)
18. [Return a Sorted Array Without Changing the Original Array](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/return-a-sorted-array-without-changing-the-original-array)
19. [Split a String into an Array Using the split Method](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/split-a-string-into-an-array-using-the-split-method)
20. [Combine an Array into a String Using the join Method](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/combine-an-array-into-a-string-using-the-join-method)
21. [Apply Functional Programming to Convert Strings to URL Slugs](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/apply-functional-programming-to-convert-strings-to-url-slugs)
22. [Use the every Method to Check that Every Element in an Array Meets a Criteria](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/use-the-every-method-to-check-that-every-element-in-an-array-meets-a-criteria)
23. [Use the some Method to Check that Any Elements in an Array Meet a Criteria](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/use-the-some-method-to-check-that-any-elements-in-an-array-meet-a-criteria)
24. [Introduction to Currying and Partial Application](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/functional-programming/introduction-to-currying-and-partial-application)

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