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■ 2021 JavaScript developer roadmap

■ Thread ■



1/6

START

1

JS FUNDAMENTALS: EXECUTION CONTEXTS

- 1.1 Global execution context.
- 1.2 Function execution context.
- 1.3 Execution context stack.
- 1.4 Execution context phases:
Creation and execution phase.
- 1.5 Creation and Hoisting.
- 1.6 Scope, scope chain and lexical environment.

2

JS FUNDAMENTALS: OPERATORS

- 2.1 Comparison Operators: loose equality and strict equality. Learn difference between both.
- 2.2 Logical Operators: Logical and (&&), Logical or (||), Logical not (!).
- 2.3 Learn short circuit evaluation.
- 2.4 Learn string operators: how to concatenate a string.
- 2.5 Conditional (ternary) operator.

2/6

3

CONTROL FLOW & ERROR HANDLING

- 3.1 Block statement.
- 3.2 Conditional statement.
- 3.3 Learn what are considered falsy values?
- 3.4 Switch statements.
- 3.5 Exception handling statement.
- 3.6 Exception types, throw statement, try and catch + finally.

4

OBJECT & FUNCTIONS: PART 1

- 4.1 Difference between function statement and function expression.
- 4.2 What is an IIFE and practical uses. Why the code inside one is considered "safe code".
- 4.3 Nested functions and closures.
- 4.4 Learn practical closures.

3/6

5

OBJECT & FUNCTIONS: PART 2

- 5.1 Asynchronous operations with callback functions.
- 5.2 Difference between call(), apply() and bind().
- 5.3 Learn how primitive values are assigned by value and reference.
- 5.4 Learn object literals, properties and methods, optional chaining.
- 5.5 How the **this** keyword works alone, inside a function, inside a method, inside a function within a method.

6

ARRAYS

- 6.1 Learn array declaration, how to get a value by index, how to get array's length.
- 6.2 Learn array helper methods: forEach, map, filter, find, every, some, reduce, sort, concat, findIndex, reverse, includes, pop, shift, unshift.

4/6

7

ES6: PART 1

- 7.1 Const and Let.
- 7.2 Block scoped variables and functions with let.
- 7.3 Arrow functions. Learn lexical **this** inside arrow functions.
- 7.4 How to set default parameter values in a function.
- 7.5 Learn Extended parameter handling: Rest parameter and Spread operator.

8

ES6: PART 2

- 8.1 Template literals: string interpolation.
- 8.2 Destructuring assignment: Object and Array matching with default values.
- 8.3 Enhanced object properties: property shorthand, computed property names, method properties.
- 8.4 Async flow control: Promises and async/await.
- 8.5 Class: definition, inheritance, base class access, getter/setter, static members.

5/6

9

INHERITANCE AND THE PROTOTYPE CHAIN

- 9.1 How does the prototype property works.
- 9.2 How to use the prototype property.
- 9.3 How to inherit methods and properties.
- 9.4 Different ways to create objects and the resulting prototype chain.

10

JAVASCRIPT MODULES

- 10.1 How to export and import modules.
- 10.2 Difference between default and names exports.
- 10.3 How to rename imports and exports.
- 10.4 How to import and export classes.
- 10.5 Dynamic module loading.
- 10.6 Top level await.

6/6

Did you find it useful?
Let me know in the comments

