Concepts of JavaScript

Introduction

This repository was created with the intention of helping developers master their concepts in JavaScript. It is not a requirement, but a guide for future studies.

Table of Contents

- 1. Data Types
 - a. Primitive
 - b. Non Primitive
- 2. Variable
 - a. Var
 - b. Let
 - c. Const
- 3. Let vs const
- 4. Why let and const are block scope
- 5. Operators
 - a. Arithmetic operator
 - b. Logical operator
 - c. Bitwise Operator
 - d. Comparison Operators
 - e. Operator Precedence
- 6. Statically type & Dynamically type Language
- 7. Loosely typed, weekly Typed, Strongly Typed and Dynamic Typed Language in JS
- 8. Diff bet == & ===
- 9. Execution Context
 - a. Variable Environment
 - b. Thread Execution
 - c. Call Stack
- 10. Function
 - a. Function statement
 - b. Function Declaration
 - c. Function Expression
 - d. Named function
 - e. Arrow Function
 - f. Function Invocation
 - g. High Order Function
 - h. First Class Function
 - i. Function Call
 - j. Function Apply
 - k. Function Bind
 - I. Function toString

- m. Function Closures
- n. Function static method
- 11. Diff bet Parameter and Argument
- 12. Object
- 13. String
 - a. String Methods
 - b. String Search
 - c. String Templates
- 14. Array
 - a. Array Methods
 - b. Array Search
 - c. Array Sort
 - d. Array Iteration
 - e. Array Instance Methods
 - i. Map()
 - ii. Reduce()
 - iii. filter()
- 15. Object
 - a. Object Definition
 - b. Object Properties
 - c. Object Methods
 - d. Object Prototype
- 16. Number
 - a. Number Methods
 - b. Number Properties
- 17. Dates
 - a. Date Format
 - b. Get Method
 - c. Set Method
- 18. Conditional Statement
 - a. If
 - b. Else if
 - c. Switch
 - d. Ternary Operator
 - e. Nested if else
- 19. Loops
 - a. For
 - b. For of
 - c. For in
 - d. While
 - e. Do while
- 20. TypeOf (Type Conversion)
 - a. Number to String
 - b. String to Number
 - c. Dates to Number
 - d. Number to Date
 - e. Boolean to Number
 - f. Number to Boolean

21. Exception Handling

- a. Types of errors
 - i. Syntax Error
 - ii. Runtime Error
 - iii. Logical Error
 - iv. Reference Error
 - v. Type of error
- b. Error
 - i. Try
 - ii. Catch
 - iii. Finally
 - iv. Throw
- 22. Defined vs Not Defined
- 23. Scope
 - a. Local Scope
 - b. Block Scope
 - c. Global Scope
 - d. Function Scope
 - e. Lexical Scope/Environment
 - f. Module Scope
- 24. New Keyword
- 25. This Keyword
- 26. Instance and InstanceOf
- 27. Shadowing
 - a. Illegal Shadowing
- 28. Closure
- 29. Hoisting
- 30. Temporal Dead Zone
- 31. Recusion
- 32. Debugging
 - a. Debugger
- 33. Blocking Main Thread
- 34. Aysnc
 - a. Callbacks
 - b. Asynchronous
 - c. Promises
 - d. Async/Await
 - e. Callback hell
- 35. Classes
 - a. Class Inheritance
 - b. Class Static
- 36. Dom
 - a. Elements
 - b. Methods
 - c. Events
 - d. Event Listener
 - e. Forms
 - f. Css

- g. HTML
- h. Layout tree
- 37. How will you communicate between DOM element and javascript
- 38. Timing Events
 - a. set timeout
 - b. setInterval
- 39. Debouncing
- 40. Throttling
- 41. Curring
- 42. Strict mode
- 43. Local Storage & Session Storage
- 44. AJAX
 - a. Request
 - b. Response
- 45. Jquery
 - a. Jquery Selector
 - b. Jquery HTML
 - c. Jquery DOM
- 46. IIFE (Immediately Invoked Function Expression)
- 47. ES6 Advantages
- 48. Js Engine
- 49. Js Window
- 50. Web API
 - a. Form Validation
 - b. Fetch API
- 51. Typing
 - a. Implicit
 - b. Explivit
 - c. Nominal
 - d. Structing
 - e. Duck
- 52. Cookies
 - a. Cookie Attribute
 - b. Cookie with Multiple Names
 - c. Deleting Cookie