Indie's Clan

Full JavaScript

- Introduction to JavaScript
 - What is JavaScript
 - Versions of JavaScript
 - How to run JavaScript (Browser vs Node)
 - Variable Declarations and Definition
 - Hoisting
 - Variable Naming Rules
 - Variable Scopes (Block, Function, Global)
- Expressions and Operators
 - Assignment Operators
 - Comparison Operators
 - Arithmetic Operators
 - Bitwise Operators
 - Logical Operators
 - BigInt Operators
 - String Operators
 - Conditional Operators
 - Comma Operators
 - Unary Operators
 - Relational Operators
- Data Types in JavaScript
 - Primitive Data Types

- String
- Number
- BigInt
- Symbol
- Boolean
- undefined
- null

Reference Data Type

- Objects
- Functions
- Arrays
- Dates
- Collections
- typeof operator

Functions

- Function Definition and Function calling
- Function Parameters
 - Default Parameters
 - Rest Parameters
 - Spread Parameters
- Function Arguments
- Arrow Functions
- IIFE (Immediate Invoked Function Expression)
- Argument Object
- Function Scope and Function (Call)Stack
 - Recursion
 - Lexical Scoping

- Closures
- Built-in Functions

Objects in JavaScript

- Object Prototype
- Object prototypal Inheritance
- Built in Objects

• Type Conversion

- Type Casting vs Type Coercion
- Explicit Type casting vs Implicit Type casting

Data Structures

- Keyed Collections
 - Map vs Weak Map
 - Set vs Weak Set
- Indexed Collections
 - Arrays vs Typed Arrays
- Structured Data
 - JSON

• Value Comparison Operators

• == vs === vs Object.is

Loops and Iterations

- for statement
 - for..in statement
 - for..of statement
- while statement
- do..while statement
- Break / Continue
 - Labelled Statement

- Control Flow
 - Conditional Statement
 - if..else
 - switch statement
 - Exception Handling
 - throw statement
 - try/catch/finally statement
 - Utilizing Error Objects
- Strict Mode
- (this) keyword
 - in a method
 - in a function
 - using it alone
 - in event handlers
 - in arrow functions
 - Function Borrowing
 - Explicit Binding
 - call
 - apply
 - bind
 - Asynchronous JavaScript
 - Event Loop
 - Callbacks
 - Callback Hell
 - Promises
 - async/await
 - setTimeout

- setInterval
- Classes
- Iterators and Generators
- Modules in JavaScript
 - CommonJs
 - EcmaScript Modules
- Memory Management in JavaScript
 - Memory Lifecycle and Memory Leaks
 - Garbage Collection
- Where to go next (IMO)