

GETTING STARTED

- What is JavaScript
- Install a JavaScript Code Editor
- Meet the Console Tab of Devtools
- JavaScript Hello World

JAVASCRIPT FUNDAMENTALS

- Syntax
- Variables
- Data Types
- Number
- Numeric Separator
- Octal and Binary Literals
- Boolean
- String
- Object
- Primitive vs. Reference Values
- Array

JAVASCRIPT OPERATORS

- Arithmetic Operators
- Remainder Operator
- Assignment Operators
- Unary Operators
- Comparison Operators
- Logical Operators
- Logical Assignment Operators
- Nullish Coalescing Operator
- Exponentiation Operator

CONTROL FLOW

- if
- if else
- if else if
- Ternary Operator (:?)
- switch case
- while
- do while
- for
- break
- continue
- Comma Operator

JAVASCRIPT FUNCTIONS

- Functions
- Functions are First-Class Citizens
- Anonymous Functions
- Understanding Pass-By-Value in JavaScript
- Recursive Functions
- Default Parameters

JAVASCRIPT OBJECTS

- Object Methods
- Constructor Functions
- Prototype
- Constructor/Prototype Pattern
- Prototypal Inheritance
- this
- globalThis
- Object Properties
- for...in Loop
- Enumerable Properties
- Own Properties
- Object.values()
- Object.entries()
- Object.is()
- Factory Functions
- Object Destructuring
- Optional Chaining Operator
- Object Literal Syntax Extensions

CLASSES

- Class
- Getters & Setters
- Class Expressions
- Computed Properties
- Inheritance
- new.target
- Static Methods
- Static Properties
- Private Fields
- Private Methods
- instanceof Operator

ADVANCED FUNCTIONS

- Function Type
- The call() Method
- The apply() method
- The bind() Method
- Closures
- Immediately Invoked Function Expression (IIFE)

- Returning Multiple Values
- Arrow Functions
- Arrow Functions: Do & Don't
- Rest Parameters
- Callback

PROMISES & ASYNC/AWAIT

- Promises
- Promise Chaining
- Promise.all()
- Promise.race()
- Promise.any()
- Promise.allSettled()
- Promise.prototype.finally()
- Promise Error Handling
- async/await

JAVASCRIPT MODULES

- Modules
- Dynamic Import
- Top-level Await Modules

JAVASCRIPT ERROR HANDLING

- try...catch
- try...catch...finally
- Throw an Exception
- Optional catch Binding

JAVASCRIPT RUNTIME

- Execution Context
- Call Stack
- Event Loop
- Hoisting
- Variable Scopes

NEW ES6 SYNTAX

- JavaScript let
- var vs. let
- JavaScript const
- Template Literals
- Object Literal Syntax Extensions
- Default Parameters
- Rest Parameters

- Spread Operator
- Destructuring
- for...of Loop
- Octal and Binary Literals

ES6 MODULE & CLASS

- Class
- Getters & Setters
- Class Expressions
- Computed Properties
- Inheritance
- new.target

ES6 ARROW FUNCTIONS

- Arrow Functions
- When Not To Use Arrow Functions

ITERATORS & GENERATORS

- Iterators
- Generators
- yield Keyword

PROMISES

- Promises
- Promise Chaining
- Promise.all()
- Promise.race()
- Promise Error Handling

ES6 COLLECTIONS

- Set
- Map

ARRAY EXTENSIONS

- Array.of()
- Array.from()
- Array find()
- Array findIndex()

OBJECT EXTENSIONS

- Object.assign()
- Object.is()

STRING EXTENSIONS

- String startsWith()
- String endsWith()
- String includes()

PROXY & REFLECTION

- Proxy
- Reflection

MANGING ATTRIBUTES

- HTML Attributes & DOM Properties
- Set Value of an Attribute
- Get Value of an Attribute
- Remove an Attribute from Elements
- Check if an Element has an Attribute

STYLING

- Get or Set Inline Style
- Get the Computed Style
- Get CSS Classes
- Manipulate CSS Classes
- Get Element's Width and Height

HANDLING EVENTS

- Introduction to Events
- Event Handling
- Page Load Events
- The onload Event
- The DOMContentLoaded Event
- The unload Event
- The beforeunload Event
- Mouse Events
- Keyboard Events
- Scroll Events
- Scroll an Element Into View
- Focus Events
- The haschange Event
- Event Delegation
- Simulate Events

- Custom Events

SCRIPTING FORMS

- Form: submit & reset
- Checkbox
- Radio Button
- Select Box
- Add & Remove Options
- Remove Items from Select Element Conditionally

Node.js Tutorial

- Node.js Tutorial
- Install Node.js Windows
- Install Node.js Linux
- Node.js First Example
- Node.js Console
- Node.js REPL
- Node.js NPM
- Node.js CL Options
- Node.js Globals
- Node.js OS
- Node.js Timer
- Node.js Errors
- Node.js DNS
- Node.js Net
- Node.js Crypto
- Node.js TLS/SSL
- Node.js Debugger
- Node.js Process
- Node.js Child Process
- Node.js Buffers

- Node.js Streams
- Node.js File System
- Node.js Path
- Node.js StringDecoder
- Node.js Query String
- Node.js ZLIB
- Node.js Assertion
- Node.js V8
- Node.js Callbacks
- Node.js Events
- Node.js Punycode
- Node.js TTY
- Node.js Web Modules

Node.js MySQL

- MySQL Create Connection
- MySQL Create Database
- MySQL Create Table
- MySQL Insert Record
- MySQL Delete Record
- MySQL Select Record
- MySQL Select Unique
- MySQL Drop Table

Node.js MongoDB

- Create Connection
- Create Database
- Create Collection
- MongoDB Insert
- MongoDB Select
- MongoDB Query
- MongoDB Sorting

- MongoDB Remove

Difference

- Node.js vs AngularJS
- Node.js vs Python
- Node.js vs PHP
- Node.js vs Java

Node.js Express

- Express.js Tutorial
- What is Express.js
- Install Express.js
- Express.js Request
- Express.js Response
- Express.js Get
- Express.js Post
- Express.js Routing
- Express.js Cookies
- Express.js File Upload
- Express.js Middleware
- Express.js Scaffolding
- Express.js Template

MongoDB

- MongoDB - Overview
 - MongoDB - Advantages
 - MongoDB - Environment
 - MongoDB - Data Modeling
 - MongoDB - Create Database
 - MongoDB - Drop Database
 - MongoDB - Create Collection
 - MongoDB - Drop Collection
 - MongoDB - Data Types
 - MongoDB - Insert Document
 - MongoDB - Query Document
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- MongoDB - Update Document
 - MongoDB - Delete Document
 - MongoDB - Projection
 - MongoDB - Limiting Records
 - MongoDB - Sorting Records
 - MongoDB - Indexing
 - MongoDB - Aggregation
 - MongoDB - Replication
 - MongoDB - Sharding
 - MongoDB - Create Backup
 - MongoDB - Deployment
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Advanced MongoDB

- MongoDB - Relationships
 - MongoDB - Database References
 - MongoDB - Covered Queries
 - MongoDB - Analyzing Queries
 - MongoDB - Atomic Operations
 - MongoDB - Advanced Indexing
 - MongoDB - Indexing Limitations
 - MongoDB - ObjectId
 - MongoDB - Map Reduce
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REACT

- ReactJS Tutorial
- React Introduction
- React Version
- React Installation
- create-react-app
- React Features
- Pros & Cons
- ReactJS vs AngularJS
- ReactJS vs ReactNative
- React vs Vue
- React JSX
- React Components

- React State
- React Props
- React Props Validation

- React State vs Props
- React Constructor
- React Component API
- Component Life Cycle
- React Forms
- Controlled vs Uncontrolled
- React Events
- Conditional Rendering
- React Lists
- React Keys
- React Refs
- React Fragments
- React Router
- React CSS
- React Animation

- React Bootstrap
- React Map
- React Table
- Higher-Order Components
- React Code Splitting
- React Context
- React Hooks
- React Flux Concept
- React Flux Vs MVC
- React Redux
- React Redux Example
- React Portals
- React Error Boundaries