

Loiane Groner

# Learning JavaScript Data Structures and Algorithms

**Third Edition**

Write complex and powerful JavaScript code using the latest ECMAScript



**Packt**

# Learning Javascript Data Structures And Algorithms

**B Lingard**



## **Learning Javascript Data Structures And Algorithms:**

**Learning JavaScript Data Structures and Algorithms** Loiane Groner, 2014-10-27 If you are a JavaScript developer or someone who has basic knowledge of JavaScript and want to explore its optimum ability this fast paced book is definitely for you Programming logic is the only thing you need to know to start having fun with algorithms

**Learning JavaScript Data Structures and Algorithms** Loiane Groner, 2016-06-23 Hone your skills by learning classic data structures and algorithms in JavaScript About This Book Understand common data structures and the associated algorithms as well as the context in which they are used Master existing JavaScript data structures such as array set and map and learn how to implement new ones such as stacks linked lists trees and graphs All concepts are explained in an easy way followed by examples Who This Book Is For If you are a student of Computer Science or are at the start of your technology career and want to explore JavaScript s optimum ability this book is for you You need a basic knowledge of JavaScript and programming logic to start having fun with algorithms What You Will Learn Declare initialize add and remove items from arrays stacks and queues Get the knack of using algorithms such as DFS Depth first Search and BFS Breadth First Search for the most complex data structures Harness the power of creating linked lists doubly linked lists and circular linked lists Store unique elements with hash tables dictionaries and sets Use binary trees and binary search trees Sort data structures using a range of algorithms such as bubble sort insertion sort and quick sort In Detail This book begins by covering basics of the JavaScript language and introducing ECMAScript 7 before gradually moving on to the current implementations of ECMAScript 6 You will gain an in depth knowledge of how hash tables and set data structure functions as well as how trees and hash maps can be used to search files in a HD or represent a database This book is an accessible route deeper into JavaScript Graphs being one of the most complex data structures you ll encounter we ll also give you a better understanding of why and how graphs are largely used in GPS navigation systems in social networks Toward the end of the book you ll discover how all the theories presented by this book can be applied in real world solutions while working on your own computer networks and Facebook searches Style and approach This book gets straight to the point providing you with examples of how a data structure or algorithm can be used and giving you real world applications of the algorithm in JavaScript With real world use cases associated with each data structure the book explains which data structure should be used to achieve the desired results in the real world

**Learning JavaScript Data Structures and Algorithms - Third Edition** Loiane Groner, 2018 Create classic data structures and algorithms such as depth first search and breadth first search learn recursion as well as create and use a heap data structure using JavaScript About This Book Implement common data structures and the associated algorithms along with the context in which they are used Master existing JavaScript data structures such as arrays sets and maps and learn how to implement new ones such as stacks linked lists trees and graphs in ES 8 Develop abstract data types to make JavaScript a more flexible and powerful programming language Who This Book Is For If you re a JavaScript developer who wants to dive

deep into JavaScript and write complex programs using JavaScript data structures and algorithms this book is for you

**What You Will Learn**

- Declare initialize add and remove items from arrays stacks and queues
- Create and use linked lists doubly linked lists and circular linked lists
- Store unique elements with hash tables dictionaries and sets
- Explore the use of binary trees and binary search trees
- Sort data structures using algorithms such as bubble sort selection sort insertion sort merge sort and quick sort
- Search elements in data structures using sequential sort and binary search

**In Detail**

A data structure is a particular way of organizing data in a computer to utilize resources efficiently Data structures and algorithms are the base of every solution to any programming problem With this book you will learn to write complex and powerful code using the latest ES 2017 features

**Learning JavaScript Data Structures and Algorithms** begins by covering the basics of JavaScript and introduces you to ECMAScript 2017 before gradually moving on to the most important data structures such as arrays queues stacks and linked lists You will gain in depth knowledge of how hash tables and set data structures function as well as how trees and hash maps can be used to search files in an HD or represent a database This book serves as a route to take you deeper into JavaScript You ll also get a greater understanding of why and how graphs one of the most complex data structures are largely used in GPS navigation systems in social networks

Toward the end of the book you ll discover how all the theories presented in this book can be applied to solve real world problems while working on your own computer networks and Facebook searches

**Style and approach** Easy to follow guide which will cover the most used data s

*Easy Learning Data Structures & Algorithms Javascript* Yang Hu,2019-05-27

Understand data structures and the associated algorithms as well as the context in which they are used Master existing JavaScript data structures such as array set and map and learn how to implement new ones such as stacks linked lists trees and graphs All concepts are explained in an easy way followed by examples You will gain an in depth knowledge of how hash tables and set data structure functions as well as how trees and hash maps

This book is an accessible route deeper into JavaScript

Graphs being one of the most complex data structures you ll encounter

- 1 Bubble Sorting Algorithm
- 2 Select Sorting Algorithm
- 3 Insert Sorting Algorithm
- 4 Dichotomy Binary Search
- 5 Unidirectional Linked List
- 5 1 Create and Initialization
- 5 2 Add Node
- 5 3 Insert Node
- 5 4 Delete Node
- 6 Doubly Linked List
- 6 1 Create and Initialization
- 6 2 Add Node
- 6 3 Insert Node
- 6 4 Delete Node
- 7 One way Circular LinkedList
- 7 1 Initialization and Traversal
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- 7 3 Delete Node
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- 8 1 Initialization and Traversal
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- 8 3 Delete Node
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- 12 Two way Merge Algorithm
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- 14 2 Binary search tree In order traversal
- 14 3 Binary search tree Pre order traversal
- 14 4 Binary search tree Post order traversal
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- 14 6 Binary search tree Delete Node
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- 17 2 Undirected Graph and Breadth First Search
- 17 3 Directed Graph and Depth Frst Search
- 17 4 Directed Graph and Breadth First Search
- 17 5 Directed Graph Topological Sorting

*Learning JavaScript Data Structures and Algorithms - Second*

*Edition* Loiane Groner,2016-06-23 Get to grips with the fundamentals of JavaScript and explore classic data structures and algorithms with this guide Using real world use cases associated with each data structure the book will help you to understand the context in which each is used *JavaScript Data Structures and Algorithms* Sammie Bae,2019-01-23 Explore data structures and algorithm concepts and their relation to everyday JavaScript development A basic understanding of these ideas is essential to any JavaScript developer wishing to analyze and build great software solutions You ll discover how to implement data structures such as hash tables linked lists stacks queues trees and graphs You ll also learn how a URL shortener such as bit ly is developed and what is happening to the data as a PDF is uploaded to a webpage This book covers the practical applications of data structures and algorithms to encryption searching sorting and pattern matching It is crucial for JavaScript developers to understand how data structures work and how to design algorithms This book and the accompanying code provide that essential foundation for doing so With JavaScript Data Structures and Algorithms you can start developing your knowledge and applying it to your JavaScript projects today What You ll Learn Review core data structure fundamentals arrays linked lists trees heaps graphs and hash table Review core algorithm fundamentals search sort recursion breadth depth first search dynamic programming bitwise operators Examine how the core data structure and algorithms knowledge fits into context of JavaScript explained using prototypical inheritance and native JavaScript objects data types Take a high level look at commonly used design patterns in JavaScript Who This Book Is For Existing web developers and software engineers seeking to develop or revisit their fundamental data structures knowledge beginners and students studying JavaScript independently or via a course or coding bootcamp *Learning JavaScript Data Structures and Algorithms* Rodrigo Silveira,2015 Learning JavaScript Data Structures and Algorithms will show you how to organize your code with the most appropriate data structures available to get the job done fast and in a logical way that is easy to maintain refactor and test By using effective data structures you can take advantage of advanced algorithms thus making your web applications more powerful and scalable You will learn about common software engineering data structures such as linked lists trees and graphs and get to know how to implement them in JavaScript You ll also master ways to use them in various types of algorithms You will begin by finding out how to build on native JavaScript constructs and create collections such as maps queues stacks sets graphs and other data structures You will then discover how to develop analyze and improve algorithms to search deep trees lists and other complex collections as well as sorting containers of data This practical course will guide you through a web application development cycle using a structured and disciplined approach focusing on accuracy and efficiency as you build quality software Resource description page **Easy Learning Data Structures and Algorithms JavaScript (2 Edition)** yang hu,2021-05-26 Algorithms and data structures are much more than abstract concepts Mastering them enables you to write code that runs faster and more efficiently which is particularly important for developing software It can provide a complete solution that acts like reusable code In this book you will learn how to use

various data structures while developing in the ES6 JavaScript language as well as how to implement some of the most common algorithms used with such data structures You will get to know arrays lists linkedlist together with real world examples of your application Then you will learn how to create and use stacks and queues In the following part of the book the more complex data structures will be introduced namely Trees and graphs together with some algorithms for searching the shortest path in a graph This book is rich in examples with beautiful pictures and texts and step by step explains the data structure and algorithms in a way that is easy to understand

**Learning JavaScript Data Structures and Algorithms** Loiane Groner,2018-04-30 A data structure is a particular way of organizing data in a computer to utilize resources efficiently Data structures and algorithms are the base of every solution to any programming problem With this book you will learn to write complex and powerful code using the latest ES 8 features

**Algorithms JavaScript** Yang Hu,2020-07-19 This book is rich in examples with beautiful pictures and texts and explains the data structure and algorithms in a way that is easy to understand It is designed to help programmers better use the energy of algorithms in daily projects 1 Classic reference book in the field of algorithms reflects the core knowledge system of algorithms2 Comprehensive content Comprehensive discussion of sorting linked list search hash graph and tree algorithms and data structures covering the algorithms commonly used by every programmer3 The new JavaScript implementation code using a modular programming style gives the actual code of the algorithm Simple is the beginning of wisdom From the essence of practice this book to briefly explain the concept and vividly cultivate programming interest you will learn it easy fast and well

*Graphic Javascript Algorithms* Yang Hu,2020-03-23 JavaScript structures and algorithm concepts and their relation JavaScript developer wishing to analyze and build great software solutions You ll discover how to implement data structures such as hash tables linked lists stacks queues trees and graphs This book covers the practical applications of data structures and algorithms to encryption searching and sorting It is crucial for JavaScript developers to understand how data structures work and how to design algorithms This book and the Graphic provide that essential foundation for doing With JavaScript Data Structures and Algorithms

**Web Development from Beginner to Paid Professional, 3** Bolakale Aremu,2023-12-13 This book is volume 3 of Web Development from Beginner to Paid Professional In this volume you ll learn JavaScript Algorithms and Data Structures You ll learn the fundamentals of JavaScript variables arrays objects loops and functions

*LEARNING JAVASCRIPT DATA STRUCTURES AND ALGORITHMS* LOIANE. GRONER,2024

[Hands-On Data Structures and Algorithms with JavaScript](#) Kashyap Mukkamala,2018-01-30 Data structures and algorithms are the fundamental building blocks of computer programming They are critical to any problem provide a complete solution and act like reusable code Using appropriate data structures and having a good understanding of algorithm analysis are key in JavaScript to solving crises and ensuring your application is

**Easy Learning Data Structures & Algorithms ES6+Javascript** Yang Hu,2019-05-29 Understand data structures and the associated algorithms as well as the context in which they are used Master existing JavaScript data

structures such as array set and map and learn how to implement new ones such as stacks linked lists trees and graphs All concepts are explained in an easy way followed by examples You will gain an in depth knowledge of how hash tables and set data structure functions as well as how trees and hash maps This book is an accessible route deeper into JavaScript Graphs being one of the most complex data structures you ll encounter ECMAScript 6 ES6 This book provides a highly practical look at ES6 This book takes a user friendly approach to covering ES6 Javascript data structures 1 Bubble Sorting Algorithm2 Select Sorting Algorithm3 Insert Sorting Algorithm4 Dichotomy Binary Search5 Unidirectional Linked List5 1 Create and Initialization5 2 Add Node5 3 Insert Node5 4 Delete Node6 Doubly Linked List6 1 Create and Initialization6 2 Add Node6 3 Insert Node6 4 Delete Node7 One way Circular LinkedList7 1 Initialization and Traversal7 2 Insert Node7 3 Delete Node8 Two way Circular LinkedList8 1 Initialization and Traversal8 2 Insert Node8 3 Delete Node9 Queue10 Stack11 Recursive Algorithm12 Two way Merge Algorithm13 Quick Sort Algorithm14 Binary Search Tree14 1 Construct a binary search tree14 2 Binary search tree In order traversal14 3 Binary search tree Pre order traversal14 4 Binary search tree Post order traversal14 5 Binary search tree Maximum and minimum14 6 Binary search tree Delete Node15 Binary Heap Sorting16 Hash Table17 Graph17 1 Undirected Graph and Depth Frst Search17 2 Undirected Graph and Breadth First Search17 3 Directed Graph and Depth Frst Search17 4 Directed Graph and Breadth First Search17 5 Directed Graph Topological Sorting

*Absolute Beginner's Guide to Algorithms* Kirupa Chinnathambi,2023-12-08 A hands on easy to comprehend guide that is perfect for anyone who needs to understand algorithms With the explosive growth in the amount of data and the diversity of computing applications efficient algorithms are needed now more than ever Programming languages come and go but the core of programming algorithms and data structures remains the same *Absolute Beginner s Guide to Algorithms* is the fastest way to learn algorithms and data structures Using helpful diagrams and fully annotated code samples in Javascript you will start with the basics and gradually go deeper and broader into all the techniques you need to organize your data Start fast with data structures basics arrays stacks queues trees heaps and more Walk through popular search sort and graph algorithms Understand Big O notation and why some algorithms are fast and why others are slow Balance theory with practice by playing with the fully functional JavaScript implementations of all covered data structures and algorithms

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What You ll Learn JavaScript Fundamentals for Data Structures Understand the essential JavaScript concepts needed for implementing data structures including ES6 features Core Data Structures Learn to implement and use arrays linked lists stacks queues and hash tables to manage data efficiently Advanced Data Structures Explore binary trees heaps graphs and tries for solving complex problems Algorithmic Applications Understand how algorithms like searching sorting and traversal work with different data structures Big O Notation Master Big O analysis to measure and optimize the performance of your algorithms Custom Data Structures Build and extend your own data structures tailored to specific use cases Recursive Programming Learn the power of recursion in implementing and manipulating data structures like trees and graphs Memory Management Explore how JavaScript handles memory and garbage collection to write efficient code Real World Use Cases Discover how data structures are applied in web development gaming databases and machine learning Debugging and Optimization Gain strategies for identifying bottlenecks and optimizing your code for maximum performance Testing and Validation Use testing frameworks to ensure the accuracy and reliability of your data structures and algorithms Data Structures for Asynchronous Programming Leverage JavaScript s event loop and asynchronous capabilities for managing data efficiently in real time applications

Who Is This Book For Whether you re a JavaScript beginner looking to deepen your knowledge or an experienced developer aiming to refine your skills this book provides a structured and approachable way to master data structures By the end of the guide you ll have a solid foundation for tackling real world problems and writing clean efficient and scalable JavaScript code Transform your coding skills today with Mastering Data Structures in JavaScript A Practical Guide to Efficient Data Management in JavaScript your go to resource for mastering data structures in JavaScript development

[JavaScript Regular Expressions](#) Loiane Groner, Gabriel Manricks, 2015-05-28 This book is ideal for JavaScript developers and programmers who work with any type of user entry data and want sharpen their skills to become experts

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