# Learning JavaScript Data Structures and Algorithms

Third Edition

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Packt>

# **Learning Javascript Data Structures And Algorithms**

**Loiane Groner** 

#### **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 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 Learning JavaScript Data Structures and Algorithms - Third Edition Loiane Groner, 2018 Create classic bootcamp 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 Easv <u>Learning Data Structures & Algorithms Javascript Yang Hu, 2019-05-27 Understand data structures and the associated</u> 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 Algorithm2 Select Sorting Algorithm3 Insert Sorting Algorithm4 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 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 Tree 14 1 Construct a binary search tree 14 2 Binary search tree In order traversal 14 3 Binary search tree Pre order traversal 14 4 Binary search tree Post order traversal 14 5 Binary search tree Maximum and minimum 14 6 Binary search tree Delete Node15 Binary Heap Sorting16 Hash Table17 Graph 17 1 Undirected Graph and Depth Frst Search 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 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

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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 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 **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 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 Algorithms IavaScript 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 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

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