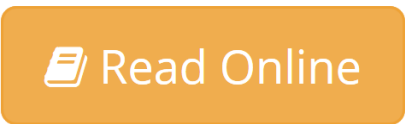


# Learning JavaScript Data Structures and Algorithms - Second Edition

By *Loiane Groner*



**Learning JavaScript Data Structures and Algorithms - Second Edition** By Loiane Groner

## Key Features

- 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.

## Book Description

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.

## 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

## About the Author

**Loiane Groner** has over 10 years of experience in developing enterprise applications. She has worked at multinational companies, such as IBM, and nowadays she works as Software Development Manager at a financial institution, where she manages overseas solutions. Her areas of expertise include Java, Sencha technologies (Ext JS), and hybrid mobile development with PhoneGap and Ionic.

She is passionate about technology, and she has dedicated herself to spreading knowledge in the software development community through her blog <http://loiane.com>, as guest speaker in IT conferences, and also as guest professor in university extension courses.

While at university, she worked as teacher's assistant for 2 years for the Algorithms, Data Structures, and Computing Theory classes. She represented her university at the ACM International Collegiate Programming Contest – Brazilian Finals (South America Regionals) and also worked as Student Delegate of SBC (Brazilian Computing Society). She won a merit award in her Senior year for being one of top three students with better GPAs in the Computer Science department and has also graduated with honors.

Loiane is also the author of the books Ext JS 4 First Look, Mastering Ext JS, Mastering Ext JS - Second Edition, Sencha Architect App Development, Learning JavaScript Data Structures and Algorithms, and JavaScript Regular Expression, all of them published by Packt Publishing.

If you want to keep in touch, you can find Loiane on Facebook (<https://www.facebook.com/loianegroner>), Twitter (@loiane), and also on Github (<https://github.com/loiane>).

## Table of Contents

1. JavaScript—A Quick Overview
2. Arrays
3. Stacks
4. Queues
5. Linked Lists
6. Sets
7. Dictionaries and Hashes
8. Trees
9. Graphs
10. Sorting and Searching Algorithms
11. Patterns of Algorithm
12. Algorithm Complexity

 [Download Learning JavaScript Data Structures and Algorithms ...pdf](#)

 [Read Online Learning JavaScript Data Structures and Algorith ...pdf](#)

# Learning JavaScript Data Structures and Algorithms - Second Edition

By Loiane Groner

**Learning JavaScript Data Structures and Algorithms - Second Edition** By Loiane Groner

## Key Features

- 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.

## Book Description

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.

## 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

## About the Author

**Loiane Groner** has over 10 years of experience in developing enterprise applications. She has worked at multinational companies, such as IBM, and nowadays she works as Software Development Manager at a financial institution, where she manages overseas solutions. Her areas of expertise include Java, Sencha technologies (Ext JS), and hybrid mobile development with PhoneGap and Ionic.

She is passionate about technology, and she has dedicated herself to spreading knowledge in the software development community through her blog <http://loiane.com>, as guest speaker in IT conferences, and also as guest professor in university extension courses.

While at university, she worked as teacher's assistant for 2 years for the Algorithms, Data Structures, and Computing Theory classes. She represented her university at the ACM International Collegiate Programming Contest – Brazilian Finals (South America Regionals) and also worked as Student Delegate of SBC (Brazilian Computing Society). She won a merit award in her Senior year for being one of top three students with better GPAs in the Computer Science department and has also graduated with honors.

Loiane is also the author of the books Ext JS 4 First Look, Mastering Ext JS, Mastering Ext JS - Second Edition, Sencha Architect App Development, Learning JavaScript Data Structures and Algorithms, and JavaScript Regular Expression, all of them published by Packt Publishing.

If you want to keep in touch, you can find Loiane on Facebook (<https://www.facebook.com/loianegroner>), Twitter (@loiane), and also on Github (<https://github.com/loiane>).

## Table of Contents

1. JavaScript—A Quick Overview
2. Arrays
3. Stacks
4. Queues
5. Linked Lists
6. Sets
7. Dictionaries and Hashes
8. Trees
9. Graphs
10. Sorting and Searching Algorithms
11. Patterns of Algorithm
12. Algorithm Complexity

## Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner Bibliography

- Sales Rank: #99364 in eBooks
- Published on: 2016-06-23
- Released on: 2016-06-23
- Format: Kindle eBook

 [Download Learning JavaScript Data Structures and Algorithms ...pdf](#)

 [Read Online Learning JavaScript Data Structures and Algorithm ...pdf](#)

## Download and Read Free Online Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner

---

### Editorial Review

#### About the Author

Loiane Groner Loiane Groner has over 10 years of experience in developing enterprise applications. She has worked at multinational companies, such as IBM, and nowadays she works as Software Development Manager at a financial institution, where she manages overseas solutions. Her areas of expertise include Java, Sencha technologies (Ext JS), and hybrid mobile development with PhoneGap and Ionic. She is passionate about technology, and she has dedicated herself to spreading knowledge in the software development community through her blog <http://loiane.com>, as guest speaker in IT conferences, and also as guest professor in university extension courses. While at university, she worked as teacher's assistant for 2 years for the Algorithms, Data Structures, and Computing Theory classes. She represented her university at the ACM International Collegiate Programming Contest – Brazilian Finals (South America Regionals) and also worked as Student Delegate of SBC (Brazilian Computing Society). She won a merit award in her Senior year for being one of top three students with better GPAs in the Computer Science department and has also graduated with honors. Loiane is also the author of the books Ext JS 4 First Look, Mastering Ext JS, Mastering Ext JS - Second Edition, Sencha Architect App Development, Learning JavaScript Data Structures and Algorithms, and JavaScript Regular Expression, all of them published by Packt Publishing. If you want to keep in touch, you can find Loiane on Facebook (<https://www.facebook.com/loianegroner>), Twitter (@loiane), and also on Github (<https://github.com/loiane>).

### Users Review

#### From reader reviews:

##### Kim Duncan:

In this 21st hundred years, people become competitive in each and every way. By being competitive today, people have do something to make these survives, being in the middle of often the crowded place and notice by surrounding. One thing that often many people have underestimated it for a while is reading. Yep, by reading a guide your ability to survive enhance then having chance to stay than other is high. In your case who want to start reading a new book, we give you this kind of Learning JavaScript Data Structures and Algorithms - Second Edition book as starter and daily reading reserve. Why, because this book is more than just a book.

##### Julia Hale:

People live in this new moment of lifestyle always try and and must have the time or they will get lots of stress from both everyday life and work. So , when we ask do people have spare time, we will say absolutely sure. People is human not just a robot. Then we consult again, what kind of activity are there when the spare time coming to you actually of course your answer will unlimited right. Then do you ever try this one, reading books. It can be your alternative in spending your spare time, the particular book you have read is Learning JavaScript Data Structures and Algorithms - Second Edition.

### **Ruby Sprankle:**

Are you kind of hectic person, only have 10 or perhaps 15 minute in your moment to upgrading your mind talent or thinking skill actually analytical thinking? Then you are having problem with the book when compared with can satisfy your small amount of time to read it because all this time you only find e-book that need more time to be go through. Learning JavaScript Data Structures and Algorithms - Second Edition can be your answer because it can be read by you actually who have those short extra time problems.

### **Jacob Gray:**

This Learning JavaScript Data Structures and Algorithms - Second Edition is brand-new way for you who has attention to look for some information mainly because it relief your hunger details. Getting deeper you into it getting knowledge more you know or you who still having tiny amount of digest in reading this Learning JavaScript Data Structures and Algorithms - Second Edition can be the light food for yourself because the information inside this book is easy to get by anyone. These books produce itself in the form which can be reachable by anyone, sure I mean in the e-book application form. People who think that in guide form make them feel drowsy even dizzy this e-book is the answer. So there is no in reading a book especially this one. You can find actually looking for. It should be here for you actually. So , don't miss the idea! Just read this e-book sort for your better life as well as knowledge.

**Download and Read Online Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner**  
**#B6QZM4W5J3D**

## **Read Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner for online ebook**

Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner books to read online.

### **Online Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner ebook PDF download**

#### **Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner Doc**

**Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner Mobipocket**

**Learning JavaScript Data Structures and Algorithms - Second Edition By Loiane Groner EPub**