Multithreaded Programs in JavaScript

Web Workers

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   Web Workers Ido Green,2012 Multithreaded programs in JavaScript Cover   **Web Workers** Ido Green,2012-05-24 Web apps would run much better if heavy calculations could be performed in the background rather than compete with the user interface With this book you ll learn how to use Web Workers to run computationally intensive JavaScript code in a thread parallel to the UI Yes multi threaded programing is complicated but Web Workers provide a simple API that helps you be productive without the complex algorithms If you have an intermediate to advanced understanding of JavaScript especially event handling and callbacks you re ready to tackle Web Workers with the tools in this example driven guide Start creating Web Workers and understand what they can and can t do Determine which browser versions support the API Use dedicated Web Workers for tasks that consume a lot of CPU such as data parsing Explore use cases for creating inline Workers such as encapsulating a web app in one page Create a shared Worker to communicate multiple web app instances to the server and other uses Learn best practices for debugging Web Workers Apply Web Workers within the server side Node environment

   JavaScript with Promises Daniel Parker,2015-06 If you re a developer moving to an environments that make heavy use of asynchronous APIs such as Node WinRT or Chrome packaged apps this book how to make use of Promise constructs JavaScript routinely supports asynchronous code setting something up with no expectation of when a response might come back Unfortunately writing code in that style is difficult for humans and Promises are a key set of tools for bridging that gap This book shows you how to use these tools and also demonstrates techniques that enable you to use features like IndexedDB or WebRTC   **Multithreaded JavaScript** Thomas Hunter,Bryan English,2021 Traditionally JavaScript has been a single threaded language Nearly all online forum posts books online documentation and libraries refer to the language as single threaded Thanks to recent advancements in the language such as the Atomics and SharedArrayBuffers objects and Web Workers in the browser JavaScript is now a multi threaded language These features will go down as being the biggest paradigm shift for the world s most popular programming language Multithreaded JavaScript explores the various features that JavaScript runtimes have at their disposal for implementing multithreaded programming providing both practical real world examples as well as reference material Learn what multithreaded programming is and how you can benefit from it Understand the differences between a web worker a service worker and a worker thread Know when and when not to use threads in an application Orchestrate communication between threads by leveraging the Atomics object Build high performance applications using the knowledge you gain from this book Benchmark performance to learn if you ll benefit from multithreading   **Multithreaded Javascript** Thomas Hunter II,Bryan English,2021-09-22 Traditionally JavaScript has been a single threaded language Nearly all online forum posts books online documentation and libraries refer to the language as single threaded Thanks to recent advancements in the language such as the Atomics and SharedArrayBuffers objects and Web Workers in the browser JavaScript is now a multi threaded language These features will go down as being the biggest

paradigm shift for the world s most popular programming language Multithreaded JavaScript explores the various features that JavaScript runtimes have at their disposal for implementing multithreaded programming providing both practical real world examples as well as reference material Learn what multithreaded programming is and how you can benefit from it Understand the differences between a web worker a service worker and a worker thread Know when and when not to use threads in an application Orchestrate communication between threads by leveraging the Atomics object Build high performance applications using the knowledge you gain from this book Benchmark performance to learn if you ll benefit from multithreading   *Multithreaded JavaScript* Thomas Hunter (II),Bryan English (Software engineer),2021 Explores the various features that JavaScript runtimes have at their disposal for implementing multithreaded programming using a spectrum of API reference material and high level programming patterns Learn what multithreaded programming is and how you can benefit from it understand the differences between a dedicated worker a shared worker and a service worker identify when and when not to use threads in an application orchestrate communication between threads by leveraging the Atomics object understand both the gains and pitfalls of using shared memory and benchmark performance to learn when you ll benefit from multiple threads From publisher description

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