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PhantomJS Cookbook



Synopsis

Over 70 recipes to help boost the productivity of your applications using real-world testing with PhantomJS

About This Book Learn the fundamentals of working with the headless PhantomJS browser Create unit and functional test suites backed by PhantomJS Integrate PhantomJS into development and testing workflows for efficient unit testing

Who This Book Is For This book is intended for web development professionals who want to integrate PhantomJS into their development and testing workflows. If you are a web developer looking to run automated unit tests while you work, or perhaps you are a QA engineer looking for a fast test automation utility, then this book is perfect for you. Some prior knowledge of JavaScript would be helpful.

What You Will Learn

- Develop your own PhantomJS core modules
- Learn sophisticated strategies for interacting with web page contents and how to capture those interactions
- Create a front-end continuous integration (CI) strategy with PhantomJS
- Perform unit testing with frameworks such as Jasmine, Mocha, and QUnit
- Implement functional and end-to-end testing with PhantomJS using tools such as Selenium, Capybara, and CasperJS
- Automate performance analysis with libraries such as Confess.js and YSlow
- Automate the generation of images and PDFs of your web content

In Detail Beginning with the basics of PhantomJS, this book will dive into its core modules and guide you through how to solve real-world testing problems. This book explores a variety of test automation tasks, including executing JavaScript unit tests with the Jasmine, QUnit, and Mocha frameworks; functional tests with tools such as Selenium, Capybara, and CasperJS; performance analysis with tools such as YSlow; and much more.

If you are a web developer looking to run automated unit tests while you work, or perhaps you are a QA engineer looking for a fast test automation utility, then this book is perfect for you. Some prior knowledge of JavaScript would be helpful.

Book Information

Paperback: 276 pages

Publisher: Packt Publishing - ebooks Account (July 2, 2014)

Language: English

ISBN-10: 178398192X

ISBN-13: 978-1783981922

Product Dimensions: 7.5 x 0.7 x 9.2 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars [See all reviews](#) (5 customer reviews)

Best Sellers Rank: #809,133 in Books (See Top 100 in Books) #271 in [Books > Computers &](#)

Technology > History & Culture > History #299 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Testing #609 in Books > Computers & Technology > Programming > Web Programming > JavaScript

Customer Reviews

I read one of the booksâ™ recipes Automating performance analysis with YSlow and PhantomJS on the Packt website, and was thrilled when given the opportunity to review it. The first three chapters of this book explain how to get Phantom installed, use its core modules and begin working with webpages. The next four chapters cover specific use cases: unit, functional and performance testing and generating screenshots and documents. The final chapter describes how to setup Jenkins (the continuous integration server) to run your PhantomJS code. A couple of things stood out in this book: This book is not designed to be read straight through from cover to cover â€” like I did. Each of the recipes is designed to be self-contained (though this does lead to several paragraphs being repeated in most recipes â€” how to start the books demo site and run the example script). Making it easy to cherry pick the recipes that fit your needs and ignore those that donâ™t (i.e., the unit testing chapter contains recipes for running QUnit, Mocha and Jasmine tests â€” I doubt anyone is using all of these). The author clearly understands Phantom, both its strengths and weaknesses, at a very deep level. Several times he pointed out functions that lack documentation or where the documentation is incorrect. This type of information can save countless hours of debugging and frustration. Likewise, he clearly states where the use of an additional library (i.e., Casper) can make things simpler. When the reader may be left questioning how or why to use a specific recipe (i.e., Preventing CSS from downloading) he provides a clear and simple use case (to view the site when styles are disabled). The book makes the most of its cross references and external links.

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