



SCALABILITY RULES

PRINCIPLES FOR SCALING WEB SITES
SECOND EDITION

MARTIN L. ABBOTT MICHAEL T. FISHER

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Scalability Rules 50 Principles For Scaling Web Sites

Michael T Fisher

**Giuseppe Bonocore, Arunee
Singhchawla**



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Scalability Rules Martin L. Abbott, Michael T. Fisher, 2011-05-04 50 Powerful Easy to Use Rules for Supporting Hypergrowth in Any Environment Scalability Rules is the easy to use scalability primer and reference for every architect developer web professional and manager Authors Martin L Abbott and Michael T Fisher have helped scale more than 200 hypergrowth Internet sites through their consulting practice Now drawing on their unsurpassed experience they present 50 clear proven scalability rules and practical guidance for applying them Abbott and Fisher transform scalability from a black art to a set of realistic technology agnostic best practices for supporting hypergrowth in nearly any environment including both frontend and backend systems For architects they offer powerful new insights for creating and evaluating designs For developers they share specific techniques for handling everything from databases to state For managers they provide invaluable help in goal setting decision making and interacting with technical teams Whatever your role you ll find practical risk benefit guidance for setting priorities and getting maximum bang for the buck Simplifying architectures and avoiding over engineering Scaling via cloning replication separating functionality and splitting data sets Scaling out not up Getting more out of databases without compromising scalability Avoiding unnecessary redirects and redundant double checking Using caches and content delivery networks more aggressively without introducing unacceptable complexity Designing for fault tolerance graceful failure and easy rollback Striving for statelessness when you can efficiently handling state when you must Effectively utilizing asynchronous communication Learning quickly from mistakes and much more **Scalability Rules** Martin L. Abbott, Michael T. Fisher, 2016-08-25 Fully updated Fifty Powerful Easy to Use Rules for Supporting Hyper Growth Whether you re taking on a role as a technology leader in a new company or you simply want to make great technology decisions Scalability Rules will be the go to resource on your bookshelf Chad Dickerson CTO Etsy Scalability Rules Second Edition is the easy to use scalability primer and reference for every architect developer network software engineer web professional and manager Authors Martin L Abbott and Michael T Fisher have helped scale hundreds of high growth companies and thousands of systems Drawing on their immense experience they present 50 up to the minute technical best practices for supporting hyper growth practically anywhere Fully updated to reflect new technical trends and experiences this edition is even easier to read understand and apply Abbott and Fisher have also added powerful stories behind the rules actual experiences and case studies from CTOs and technology executives at Etsy NASDAQ Salesforce Shutterstock Chegg Warby Parker Twitter and other scalability pioneers Architects will find powerful technology agnostic insights for creating and evaluating designs Developers will discover specific techniques for handling everything from databases to state Managers will get invaluable help in setting goals making decisions and interacting with technical teams Whatever your role you ll find practical risk benefit guidance for setting priorities translating plans into action and gaining maximum scalability at minimum cost You ll learn how to Simplify architectures and avoid over engineering Design scale into

your solution so you can scale on a just in time basis Make the most of cloning and replication Separate functionality and split data sets Scale out not up Get more out of databases without compromising scalability Eliminate unnecessary redirects and redundant double checking Use caches and CDNs more aggressively without unacceptable complexity Design for fault tolerance graceful failure and easy rollback Emphasize statelessness and efficiently handle state when you must Effectively utilize asynchronous communication Learn from your own mistakes and others high profile failures Prioritize your actions to get the biggest bang for the buck

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Web Scalability for Startup Engineers Artur Ejsmont, 2015-07-03 This invaluable roadmap for startup engineers reveals how to successfully handle web application

scalability challenges to meet increasing product and traffic demands Web Scalability for Startup Engineers shows engineers working at startups and small companies how to plan and implement a comprehensive scalability strategy It presents broad and holistic view of infrastructure and architecture of a scalable web application Successful startups often face the challenge of scalability and the core concepts driving a scalable architecture are language and platform agnostic The book covers scalability of HTTP based systems websites REST APIs SaaS and mobile application backends starting with a high level perspective before taking a deep dive into common challenges and issues This approach builds a holistic view of the problem helping you see the big picture and then introduces different technologies and best practices for solving the problem at hand The book is enriched with the author s real world experience and expert advice saving you precious time and effort by learning from others mistakes and successes Language agnostic approach addresses universally challenging concepts in Web development scalability does not require knowledge of a particular language Fills the gap for engineers in startups and smaller companies who have limited means for getting to the next level in terms of accomplishing scalability Strategies presented help to decrease time to market and increase the efficiency of web applications

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