

Write Great Code

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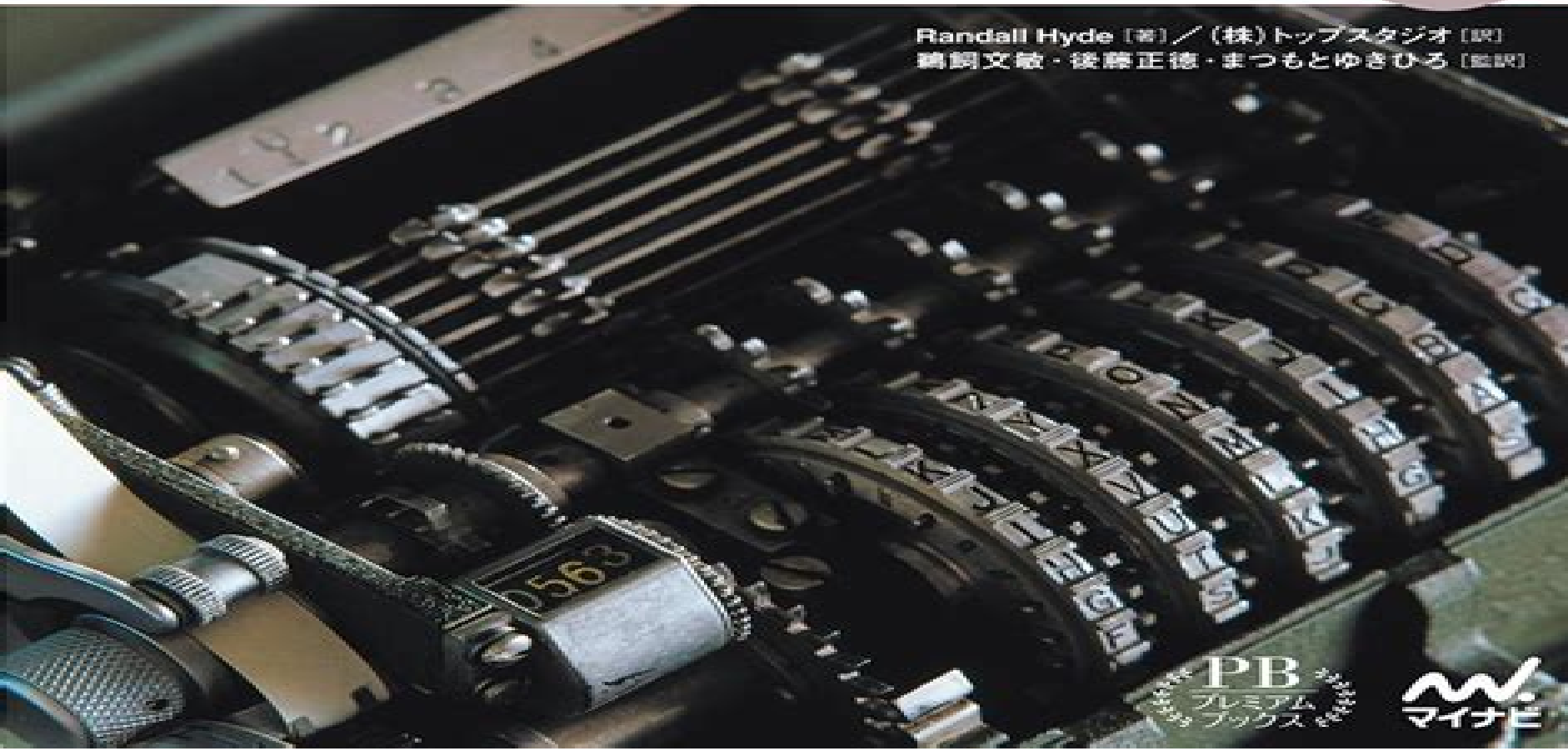
Vol.1 — Understanding the Machine

Vol.

1

ハードウェアを知り、ソフトウェアを書く

Randall Hyde [著] / (株) トップスタジオ [訳]
鶴岡文敏・後藤正徳・まつもとゆきひろ [監訳]



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Write Great Code Vol 1 Write Great Code Vol 1

Dana Ferguson



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Write Great Code, Vol. 1 Randall Hyde, 2004 Provides information on how computer systems operate how compilers work and writing source code *Write Great Code, Volume 1, 2nd Edition* Randall Hyde, 2020-07-31 Understanding the Machine the first volume in the landmark Write Great Code series by Randall Hyde explains the underlying mechanics of how a computer works This the first volume in Randall Hyde s Write Great Code series dives into machine organization without the extra overhead of learning assembly language programming Written for high level language programmers Understanding the Machine fills in the low level details of machine organization that are often left out of computer science and engineering courses Learn How the machine represents numbers strings and high level data structures so you ll know the inherent cost of using them How to organize your data so the machine can access it efficiently How the CPU operates so you can write code that works the way the machine does How I O devices operate so you can maximize your application s performance when accessing those devices How to best use the memory hierarchy to produce the fastest possible programs Great code is efficient code But before you can write truly efficient code you must understand how computer systems execute programs and how abstractions in programming languages map to the machine s low level hardware After all compilers don t write the best machine code programmers do This book gives you the foundation upon which all great software is built NEW IN THIS EDITION COVERAGE OF Programming languages like Swift and Java Code generation on modern 64 bit CPUs ARM processors on mobile phones and tablets Newer peripheral devices Larger memory systems and large scale SSDs *Write Great Code, Vol. 2* Randall Hyde, 2004 Provides information on how computer systems operate how compilers work and writing source code *Write Great Code, Volume 1, 2nd Edition* Randall Hyde, 2020-08-04 Understanding the Machine the first volume in the landmark Write Great Code series by Randall Hyde explains the underlying mechanics of how a computer works This the first volume in Randall Hyde s Write Great Code series dives into machine organization without the extra overhead of learning assembly language programming Written for high level language programmers Understanding the Machine fills in the low level details of machine organization that are often left out of computer science and engineering courses Learn How the machine represents numbers strings and high level data structures so you ll know the inherent cost of using them How to organize your data so the machine can access it efficiently How the CPU operates so you can write code that works the way the machine does How I O devices operate so you can maximize your application s performance when accessing those devices How to best use the memory hierarchy to produce the fastest possible programs Great code is efficient code But before you can write truly efficient code you must understand how computer systems execute programs and how abstractions in programming languages map to the machine s low level hardware After all compilers don t write the best machine code programmers do This book gives you the foundation upon which all great software is built NEW IN THIS EDITION COVERAGE OF Programming languages like Swift and Java Code generation on modern 64 bit CPUs ARM

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