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Mastering Regular Expressions

**This book breaks down the
C++ STL, teaching you how
to extract its gems and
apply them to your**

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type, product type and sum
type. In Detail Modern C++
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2011. The latest update, C++17, has just been ratified and several implementations are on the way. This book is your guide to the C++ standard library, including the

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very latest C++17
features. The book starts
by exploring the C++
Standard Template Library
in depth. You will learn
the key differences
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polymorphism and generic programming, the foundation of the STL. You will also learn how to use the various algorithms and containers in the STL to suit your programming

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needs. The next module delves into the tools of modern C++. Here you will learn about algebraic types such as `std::optional`, vocabulary types such as

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`std::function`, smart pointers, and synchronization primitives such as `std::atomic` and `std::mutex`. In the final module, you will learn about C++'s support for

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include APIs for high-
performance I/O
operations, regular
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The new APIs let you work
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multiplex nonblocking
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tools like grep and egrep Use regular expressions in programming languages like JavaScript, Java, PHP, Python, Microsoft .NET, and C#, as well as in DBMSs including MySQL and Oracle Work with phone numbers, postal codes, social

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security numbers, IP addresses,
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Popular Applications and Languages

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PowerShell version 3 and later
About the Authors Don Jones,
Jeffery Hicks, and Richard
Siddaway are Microsoft MVPs,
trainers, and administrators.
Collectively, they've authored nearly
three dozen books on PowerShell

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and Windows administration. Table
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Working with objects The

PowerShell pipeline Formatting

PART 2 POWERSHELL

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Remoting Background jobs and

scheduling Working with credentials

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Regular expressions Working with
HTML and XML data PSDrives and
PSProviders Variables, arrays, hash
tables, and script blocks PowerShell
security Advanced PowerShell
syntax PART 3 POWERSHELL
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Basic scripts and functions Creating
objects for output Scope PowerShell
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scripts and functions Script modules
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internationalization Writing help
Error handling techniques
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Functions that work like cmdlets
Tips and tricks for creating reports
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POWERSHELL Working with the
Component Object Model (COM)
Working with .NET Framework
objects Accessing databases Proxy
functions Building a GUI WMI and
CIM Working with the web Desired
State Configuration

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This book introduces the various parts of the construction of a regular expression pattern, explains what they mean, and walks you through working examples showing how they work and why they do what they do. By working through the

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examples, you will build your understanding of how to make regular expressions do what you want them to do and avoid creating regular expressions that don't meet your intentions. Beginning chapters introduce regular expressions and

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show you a method you can use to break down a text manipulation problem into component parts so that you can make an intelligent choice about constructing a regular expression pattern that matches what you want it to match and avoids

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matching unwanted text. To solve more complex problems, you should set out a problem definition and progressively refine it to express it in English in a way that corresponds to a regular expression pattern that does what you want it to do. The

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second part of the book devotes a chapter to each of several technologies available on the Windows platform. You are shown how to use each tool or language with regular expressions (for example, how to do a lookahead in

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Perl or create a named variable in C#). Regular expressions can be useful in applications such as Microsoft Word, OpenOffice.org Writer, Microsoft Excel, and Microsoft Access. A chapter is devoted to each. In addition, tools

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such as the little-known Windows findstr utility and the commercial PowerGrep tool each have a chapter showing how they can be used to solve text manipulation tasks that span multiple files. The use of regular expressions in the MySQL

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and Microsoft SQL Server databases are also demonstrated. Several programming languages have a chapter describing the metacharacters available for use in those languages together with demonstrations of how the objects

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or classes of that language can be used with regular expressions. The languages covered are VBScript, Javascript, Visual Basic .NET, C#, PHP, Java, and Perl. XML is used increasingly to store textual data. The W3C XML Schema definition

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language can use regular expressions to automatically validate data in an XML document. W3C XML Schema has a chapter demonstrating how regular expressions can be used with the `xs:pattern` element. Chapters 1

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through 10 describe the component parts of regular expression patterns and show you what they do and how they can be used with a variety of text manipulation tools and languages. You should work through these chapters in order and

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build up your understanding of regular expressions. The book then devotes a chapter to each of several text manipulation tools and programming languages. These chapters assume knowledge from Chapters 1 through 10, but you can

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dip into the tool-specific and language-specific chapters in any order you want.

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Data is at the center of many

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challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores,

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stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the

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pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to

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*and control structures,
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