

Shell Scripting made Easy!

Complete guide for understanding basic shell scripting syntaxes

ubuntu@ip-172-31-47-91: ~/s

```
#!/bin/bash
```

```
# declare a associative array
```

```
declare -A colours
```

```
# add key value pairs
```

```
colours['apple']=red
```

```
colours['banana']=yellow
```

```
colours['orange']=orange
```

```
colours['guava']=green
```

```
colours['cherry']=red
```

```
echo "Size of dict: ${#colours[@]}"
```

```
echo "Color of apple: ${colours['apple']}"
```

```
echo "All dict keys: ${!colours[@]}"
```

```
echo "All dict values: ${colours[@]}"
```

```
# Delete cherry key
```

```
unset colours['cherry']
```

```
echo "New dict: ${colours[@]}"
```

```
# Iterate over keys
```

```
for key in ${!colours[@]}
```

```
do
```

```
    echo $key
```

```
done
```

Unix Scripting Guide

Mendel Cooper



Unix Scripting Guide:

Linux Command Line and Shell Scripting Bible Richard Blum, 2008-04-30 There s a lot to be said for going back to basics Not only does this Bible give you a quick refresher on the structure of open source Linux software it also shows you how to bypass the hefty graphical user interface on Linux systems and start interacting the fast and efficient way with command lines and automated scripts You ll learn how to manage files on the filesystem start and stop programs use databases even do Web programming without a GUI with this one stop resource

Bash Quick Start Guide Tom Ryder, 2018-09-28 Learn how to write shell script effectively with Bash to quickly and easily write powerful scripts to manage processes automate tasks and to redirect and filter program input and output in useful and novel ways Key FeaturesDemystify the Bash command lineWrite shell scripts safely and effectivelySpeed up and automate your daily workBook Description Bash and shell script programming is central to using Linux but it has many peculiar properties that are hard to understand and unfamiliar to many programmers with a lot of misleading and even risky information online Bash Quick Start Guide tackles these problems head on and shows you the best practices of shell script programming This book teaches effective shell script programming with Bash and is ideal for people who may have used its command line but never really learned it in depth This book will show you how even simple programming constructs in the shell can speed up and automate any kind of daily command line work For people who need to use the command line regularly in their daily work this book provides practical advice for using the command line shell beyond merely typing or copy pasting commands into the shell Readers will learn techniques suitable for automating processes and controlling processes on both servers and workstations whether for single command lines or long and complex scripts The book even includes information on configuring your own shell environment to suit your workflow and provides a running start for interpreting Bash scripts written by others What you will learnUnderstand where the Bash shell fits in the system administration and programming worldsUse the interactive Bash command line effectivelyGet to grips with the structure of a Bash command lineMaster pattern matching and transforming text with BashFilter and redirect program input and outputWrite shell scripts safely and effectivelyWho this book is for People who use the command line on Unix and Linux servers already but don t write primarily in Bash This book is ideal for people who ve been using a scripting language such as Python JavaScript or PHP and would like to understand and use Bash more effectively

Shell Scripting Tutorial Steve Parker, 2014-05-17 A Bourne Shell Programming Scripting Tutorial for learning about using the Unix shell Learn Linux Unix shell scripting by example along with the theory We ll have you mastering Unix shell scripting in no time This thorough yet practical tutorial with examples throughout has been written with extensive feedback from literally hundreds of students and professionals in the field both with and without a Unix or Linux background From the author of the Wiley book Shell Scripting Expert Recipes for Bash Linux and more and of How to Build a LAMP Server this is his best read and most popular work to date

Advanced Bash Scripting Guide - Volume 1 Mendel

Cooper,2019-11-09 Summary This comprehensive and authoritative book about bash programming is a must have book for any Linux Unix professionals It is both a tutorial and a reference on shell scripting with Bash It assumes no previous knowledge of scripting or programming but progresses rapidly toward an intermediate advanced level of instruction all the while sneaking in little nuggets of UNIX wisdom and lore It serves as a textbook a manual for self study and as a reference and source of knowledge on shell scripting techniques The exercises and heavily commented examples invite active reader participation under the premise that the only way to really learn scripting is to write scripts This book is suitable for classroom use as a general introduction to programming concepts Notes this book has been split into Volume 1 and Volume 2 Volume 1 contains all content except appendices <https://www.amazon.com/dp/170640039X> Volume 2 contains all appendices <https://www.amazon.com/dp/1707048916> Table of Contents of Volume 1 Part 1 Introduction 1 Shell Programming 2 Starting Off With a Sha Bang Part 2 Basics 3 Special Characters 4 Introduction to Variables and Parameters 5 Quoting 6 Exit and Exit Status 7 Tests 8 Operations and Related Topics Part 3 Beyond the Basics 9 Another Look at Variables 10 Manipulating Variables 11 Loops and Branches 12 Command Substitution 13 Arithmetic Expansion 14 Recess Time Part 4 Commands 15 Internal Commands and Builtins 16 External Filters Programs and Commands 17 System and Administrative Commands Part 5 Advanced Topics 18 Regular Expressions 19 Here Documents 20 I O Redirection 21 Subshells 22 Restricted Shells 23 Process Substitution 24 Functions 25 Aliases 26 List Constructs 27 Arrays 28 Indirect References 29 dev and proc 30 Network Programming 31 Of Zeros and Nulls 32 Debugging 33 Options 34 Gotchas 35 Scripting With Style 36 Miscellany 37 Bash versions 2 3 and 4 38 Endnotes 38 1 Author s Note 38 2 About the Author 38 3 Where to Go For Help 38 4 Tools Used to Produce This Book 38 5 Credits 38 6 Disclaimer Bibliography **Advanced Bash Scripting Guide -**

Volume 2 Mendel Cooper,2019-11-09 Summary This comprehensive and authoritative book about bash programming is a must have book for any Linux Unix professionals It is both a tutorial and a reference on shell scripting with Bash It assumes no previous knowledge of scripting or programming but progresses rapidly toward an intermediate advanced level of instruction all the while sneaking in little nuggets of UNIX wisdom and lore It serves as a textbook a manual for self study and as a reference and source of knowledge on shell scripting techniques The exercises and heavily commented examples invite active reader participation under the premise that the only way to really learn scripting is to write scripts This book is suitable for classroom use as a general introduction to programming concepts Notes this book has been split into Volume 1 and Volume 2 Volume 1 contains all content except appendices <https://www.amazon.com/dp/170640039X> Volume 2 contains all appendices <https://www.amazon.com/dp/1707048916> Table of Contents of Volume 2 A Contributed Scripts B Reference Cards C A Sed and Awk Micro Primer C 1 Sed C 2 Awk D Parsing and Managing Pathnames E Exit Codes With Special Meanings F A Detailed Introduction to I O and I O Redirection G Command Line Options G 1 Standard Command Line Options G 2 Bash Command Line Options H Important Files I Important System Directories J An Introduction to

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logical flows with conditionals and loops and creating modular scripts with functions The text integrates topics such as file and directory management text processing automation with cron and best practices for debugging and security The structured approach enables readers to gain both conceptual understanding and hands on proficiency supported by practical examples that emphasize clarity and real world application This book is designed for students administrators engineers and enthusiasts seeking to master the core skills required for shell scripting in Linux Readers will develop the capability to write robust reusable and secure scripts automate routine or complex tasks and effectively process data in their daily workflow Whether used as an introduction or as a reference this guide offers clear and practical instruction to help readers confidently leverage the power of the Linux shell

[AppleScript Automation Guide](#) Richard Johnson, 2025-05-29 AppleScript Automation Guide The AppleScript Automation Guide is an authoritative and comprehensive resource for professionals and power users seeking to master macOS automation through AppleScript Beginning with a meticulous exploration of AppleScript s architecture language evolution and integral role in the macOS ecosystem the guide builds a strong understanding of scripting fundamentals object models flow control mechanisms and robust error handling Readers are expertly guided through both the foundational constructs and the nuanced behaviors of the AppleScript language ensuring a clear pathway from novice curiosity to advanced competency Advancing beyond the basics the guide delves deep into practical and sophisticated automation patterns It covers the creation of reusable script libraries advanced data structuring and orchestration of complex workflows across multiple applications including third party creative tools and macOS productivity suites Special attention is given to scripting difficult or non standard applications event driven design and constructing resilient automation pipelines for system administration security and enterprise scale deployment Real world scenarios are illuminated through extensive case studies demonstrating automation success in creative industries IT DevOps and beyond The book also embraces the rich interoperability of AppleScript with the Unix shell external languages such as Python and JavaScript for Automation and integration with core automation tools like Automator Services and Shortcuts Comprehensive chapters on testing debugging optimization and enterprise deployment provide readers with the strategies required for secure scalable and maintainable automation solutions With its forward looking perspective on emerging trends and its commitment to community driven innovation the AppleScript Automation Guide is an essential companion for any professional intent on harnessing the full power of automation on the Apple platform

[Windows NT Scripting Administrator's Guide](#) William R. Stanek, 1999 In this concise professional reference expert author Stanek introduces readers to Scripting Host the new automation feature and shows how to put it to work with the VBScript or JScript scripting languages In addition Stanek thoroughly explains how to use the older Windows NT shell command language to automate tasks not yet possible with Windows Scripting Host

[AppleScript: The Definitive Guide](#) Matt Neuburg, 2006-01-04 Mac users everywhere even those who know nothing about programming are discovering the value of the latest version of

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The Official Samba-3 HOWTO and Reference Guide John H. Terpstra, Jelmer R. Vernooij, 2004 A guide to the features of Samba 3 provides step by step installation instructions on integrating Samba into a Windows or UNIX environment

[Unix Shell Scripting Interview Questions, Answers, and Explanations](#) Terry Sanchez-Clark, 2007-01-01 Fluency with a UNIX Shell is mandatory for working within the UNIX operating system Keeping current however can be a challenge With the UNIX Shell Scripting Interview Guide you will be sure to be current Using this book to prepare for a job interview or brush up on a scripting programming language will aid any programmer in acquiring new and applicable skills and knowledge This book contains a complete reference of common scripting errors performance tuning examples and common applications More than just UNIX documentation and open source rhetoric this guide explains UNIX Shell Scripting from the perspective of the advanced programmer and administrator so you can be sure to come to any interview prepared Key topics include Graphical user interfaces for UNIX Advanced features of Bash Bourne and Korn Common errors and troubleshooting System monitoring and maintenance Modern command line shells

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