

# Shell Scripting made Easy!

Complete guide for understanding basic  
shell scripting syntaxes

```
ubuntu@ip-172-31-47-91: ~/$  
#!/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 Shell Programming Language

**Peipei Pang**



## Unix Shell Programming Language:

**Classic Shell Scripting** Arnold Robbins, Nelson H. F. Beebe, 2005-05-16 An useful skill for Unix users and system administrators shell scripts let you easily crunch data and automate repetitive tasks offering a way to quickly harness the full power of any Unix system his book provides the tips tricks and organized knowledge needed to create excellent scripts as well as warnings of traps *The UNIX Shell Programming Language* Rod Manis, Marc H. Meyer, 1986-01-01

**Learning the Bash Shell** Cameron Newham, Bill Rosenblatt, 2005-03-29 O Reilly's bestselling book on Linux's bash shell is at it again Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes Indeed this third edition serves as the most valuable guide yet to the bash shell As any good programmer knows the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system In other words it's what lets you communicate with the computer via the keyboard and display Mastering the bash shell might sound fairly simple but it isn't In truth there are many complexities that need careful explanation which is just what Learning the bash Shell provides If you are new to shell programming the book provides an excellent introduction covering everything from the most basic to the most advanced features And if you've been writing shell scripts for years it offers a great way to find out what the new shell offers Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier With this book programmers will learn How to install bash as your login shell The basics of interactive shell use including UNIX file and directory structures standard I/O and background jobs Command line editing history substitution and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming flow control structures command line options and typed variables Process handling from job control to processes coroutines and subshells Debugging techniques such as trace and verbose modes Techniques for implementing system wide shell customization and features related to system security

**Beginning Shell Scripting** Eric Foster-Johnson, John C. Welch, Micah Anderson, 2005-04-01 Covering all major platforms Linux Unix Mac OS X and Windows this guide shows programmers and power users how to customize an operating system automate commands and simplify administration tasks using shell scripts Offers complete shell scripting instructions robust code examples and full scripts for OS customization Covers shells as a user interface basic scripting techniques script editing and debugging graphing data and simplifying administrative tasks In addition to Unix and Linux scripting the book covers the latest Windows scripting techniques and offers a complete tutorial on Mac OS X scripting including detailed coverage of mobile file systems legacy applications Mac text editors video captures and the Mac OS X Open Scripting Architecture

**Pro Bash Programming** Chris Johnson, 2009-10-19 The bash shell is a complete programming language not merely a glue to combine external Linux commands By taking full advantage of shell internals shell programs can perform as snappily as utilities written in C or other compiled languages And you will see how

without assuming Unix lore you can write professional bash 4.0 programs through standard programming techniques

**Complete bash coverage** Teaches bash as a programming language Helps you master bash 4.0 features

**A Practical Guide to Linux Commands, Editors, and Shell Programming** Mark G. Sobell, Matthew Helmke, 2017-11-20 The Most Useful Tutorial and Reference with Hundreds of High Quality Examples for Every Popular Linux Distribution First Sobell taught people how to use Linux now he teaches you the power of Linux A must have book for anyone who wants to take Linux to the next level Jon maddog Hall Executive Director Linux International Discover the Power of Linux Covers macOS too Learn from hundreds of realistic high quality examples and become a true command line guru Covers MariaDB DNF and Python 3 300 page reference section covers 102 utilities including macOS commands For use with all popular versions of Linux including Ubuntu TM Fedora TM openSUSE TM Red Hat Debian Mageia Mint Arch CentOS and macOS Linux is today's dominant Internet server platform System administrators and Web developers need deep Linux fluency including expert knowledge of shells and the command line This is the only guide with everything you need to achieve that level of Linux mastery Renowned Linux expert Mark Sobell has brought together comprehensive insightful guidance on the tools sysadmins developers and power users need most and has created an outstanding day to day reference updated with assistance from new coauthor Matthew Helmke This title is 100 percent distribution and release agnostic Packed with hundreds of high quality realistic examples it presents Linux from the ground up the clearest explanations and most useful information about everything from filesystems to shells editors to utilities and programming tools to regular expressions Use a Mac You'll find coverage of the macOS command line including macOS only tools and utilities that other Linux UNIX titles ignore A Practical Guide to Linux Commands Editors and Shell Programming Fourth Edition is the only guide to deliver A MariaDB chapter to get you started with this ubiquitous relational database management system RDBMS A masterful introduction to Python for system administrators and power users In depth coverage of the bash and tcsh shells including a complete discussion of environment inheritance and process locality plus coverage of basic and advanced shell programming Practical explanations of core utilities from aspell to xargs including printf and sshfs curlftpfs PLUS macOS specific utilities from ditto to SetFile Expert guidance on automating remote backups using rsync Dozens of system security tips including step by step walkthroughs of implementing secure communications using ssh and scp Tips and tricks for customizing the shell including step values sequence expressions the eval builtin and implicit command line continuation High productivity editing techniques using vim and emacs A comprehensive 300 plus page command reference section covering 102 utilities including find grep sort and tar Instructions for updating systems using apt get and dnf And much more including coverage of BitTorrent gawk sed find sort bzip2 and regular expressions

**Programming Language Pragmatics** Michael Scott, 2009-03-23 Programming Language Pragmatics Third Edition is the most comprehensive programming language book available today Taking the perspective that language design and implementation are tightly interconnected and that neither

can be fully understood in isolation this critically acclaimed and bestselling book has been thoroughly updated to cover the most recent developments in programming language design including Java 6 and 7 C 0X C 3 0 F Fortran 2003 and 2008 Ada 2005 and Scheme R6RS A new chapter on run time program management covers virtual machines managed code just in time and dynamic compilation reflection binary translation and rewriting mobile code sandboxing and debugging and program analysis tools Over 800 numbered examples are provided to help the reader quickly cross reference and access content This text is designed for undergraduate Computer Science students programmers and systems and software engineers Classic programming foundations text now updated to familiarize students with the languages they are most likely to encounter in the workforce including including Java 7 C C 3 0 F Fortran 2008 Ada 2005 Scheme R6RS and Perl 6 New and expanded coverage of concurrency and run time systems ensures students and professionals understand the most important advances driving software today Includes over 800 numbered examples to help the reader quickly cross reference and access content

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**Mastering Unix Shell Scripting** Randal K. Michael, 2008-06-03 UNIX expert Randal K Michael guides you through every detail of writing shell scripts to automate specific tasks Each chapter begins with a typical everyday UNIX challenge then shows you how to take basic syntax and turn it into a shell scripting solution Covering Bash Bourne and Korn shell scripting this updated edition provides complete shell scripts plus detailed descriptions of each part UNIX programmers and system administrators can tailor these to build tools that monitor for specific system events and situations building solid UNIX shell scripting skills to solve real world system administration problems

**Shell Programming in Unix, Linux and OS X** Stephen G. Kochan, Patrick Wood, 2016-08-30 Shell Programming in Unix Linux and OS X is a thoroughly updated revision of Kochan and Wood's classic Unix Shell Programming tutorial Following the methodology of the original text the book focuses on the POSIX standard shell and teaches you how to develop programs in this useful programming environment taking full advantage of the underlying power of Unix and Unix like operating systems After a quick review of Unix utilities the book's authors take you step by step through the process of building shell scripts debugging them and understanding how they work within the shell's environment All major features of the shell are covered and the large number of practical examples make it easy for you to build shell scripts for your particular applications The book also describes the major features of the Korn and Bash shells Learn how to Take advantage of the many utilities provided in the Unix system Write powerful shell scripts Use the shell's built in decision making and looping constructs Use the shell's powerful quoting mechanisms Make the most of the shell's built in history and command editing capabilities Use regular expressions with Unix commands Take advantage of the special features of the Korn and Bash shells Identify the major differences between versions of the shell language Customize the way your Unix system responds to you Set up your shell environment Make use of functions Debug scripts Contents at a Glance 1 A Quick Review of the Basics 2 What Is the Shell 3 Tools of the Trade 4 And Away We Go 5 Can I Quote You on That 6 Passing Arguments 7 Decisions Decisions 8 Round and Round She Goes 9 Reading and Printing Data 10 Your Environment 11 More on Parameters 12 Loose Ends 13 Rolo Revisited 14 Interactive and Nonstandard Shell Features A Shell Summary B For More Information

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overcome many common mistakes that cause scripts to fail This book is perfect for all beginning Linux and Unix system administrators who want to be in full control of their systems and really get to grips with Bash programming [bash Cookbook](#) Carl Albing,JP Vossen,Cameron Newham,2007-05-24 The key to mastering any Unix system especially Linux and Mac OS X is a thorough knowledge of shell scripting Scripting is a way to harness and customize the power of any Unix system and it s an essential skill for any Unix users including system administrators and professional OS X developers But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards bash Cookbook teaches shell scripting the way Unix masters practice the craft It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell the bash shell and cygwin or other popular Unix emulation packages Packed full of useful scripts along with examples that explain how to create better scripts this new cookbook gives professionals and power users everything they need to automate routine tasks and enable them to truly manage their systems rather than have their systems manage them *Web Programming Languages Sourcebook* Gordon McComb,Marty Bower,Mark Robinson,1997-05-05 CD ROM includes library of customizable scripts and programs and a collection of utilities **Pro Bash Programming, Second Edition** Chris Johnson,Jayant Varma,2015-06-19 Pro Bash Programming teaches you how to effectively utilize the Bash shell in your programming The Bash shell is a complete programming language not merely a glue to combine external Linux commands By taking full advantage of Shell internals Shell programs can perform as snappily as utilities written in C or other compiled languages And you will see how without assuming Unix lore you can write professional Bash 4.3 programs through standard programming techniques This second edition has updated for Bash 4.3 and many scripts have been rewritten to make them more idiomatically Bash taking better advantage of features specific to Bash It is easy to read understand and will teach you how to get to grips with Bash programming without drowning you in pages and pages of syntax Using this book you will be able to use the shell efficiently make scripts run faster using expansion and external commands and understand how to overcome many common mistakes that cause scripts to fail This book is perfect for all beginning Linux and Unix system administrators who want to be in full control of their systems and really get to grips with Bash programming **Learning the Korn Shell** Bill Rosenblatt,Arnold Robbins,2002 As a bonus Learning the Korn Shell develops one extended programming example a shell script debugger written in the shell itself It s one of the few programs of its type that we know of it s an elegant and practical tool that you ll want to use when developing your own shell programs *KornShell Programming Tutorial* Barry Rosenberg,1991 A tutorial designed for anyone needing to create simple Kornshell scripts system administrators programmers at various levels and UNIX users Rosenberg has given us a book that is 85% examples oriented This unique format allows readers to learn Kornshell Script programming in the shortest amount of time *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 Features**

Demystify the Bash command line

Write shell scripts safely and effectively

Speed up and automate your daily work

**Book 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 learn

Understand where the Bash shell fits in the system administration and programming worlds

Use the interactive Bash command line effectively

Get to grips with the structure of a Bash command line

Master pattern matching and transforming text with Bash

Filter and redirect program input and output

Write shell scripts safely and effectively

Who 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* Steve Parker, 2011-08-17

A compendium of shell scripting recipes that can immediately be used adjusted and applied

The shell is the primary way of communicating with the Unix and Linux systems providing a direct way to program by automating simple to intermediate tasks

With this book Linux expert Steve Parker shares a collection of shell scripting recipes that can be used as is or easily modified for a variety of environments or situations

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Shares a collection of helpful shell scripting recipes that can immediately be used for various of real world challenges

Features recipes for system tools shell features and systems administration

Provides a host of plug and play recipes for to immediately apply and easily modify so the wheel doesn't have to be reinvented with each challenge faced

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Provides readers with end to end shell

scripts that can be used to automate repetitive tasks and solve real world system administration problems Targets the specific command structure for four popular UNIX systems Solaris Linux AIX and HP UX Illustrates dozens of example tasks presenting the proper command syntax and analyzing the performance gain or loss using various control structure techniques Web site includes all the shell scripts used in the book

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