

# 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

**Andrew Mallett**



## **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

**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 **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 [Mastering Linux Shell Scripting](#) Andrew Mallett,2015-12-24 Master the complexities of Bash shell scripting and unlock the power of shell for your enterprise About This Book Identify the high level steps such as verifying user input using command lines and conditional statements in creating and executing simple shell scripts Create and edit dynamic shell scripts to manage complex and repetitive tasks Learn about scripting in Perl and programming in Python as a BASH scripting alternative with this practical step by step guide Who This Book Is For Mastering Linux Shell Scripting has been written for Linux administrators who want to automate tasks in their daily lives saving time and effort You ll need to have command line experience and be familiar with the tasks that you need to automate What You Will Learn Use the type command to identify the order of command evaluation Create interactive scripts that prompt for user input Foster menu structures for operators with little command line experience Develop scripts that dynamically edit web configuration files to produce a new virtual host Write scripts that use AWK to search and reports on log files Draft effective scripts using functions as building blocks reducing maintenance and build time Make informed choices by comparing different script languages such as Perl and Python with BASH In Detail Shell scripting is a quick method to prototype a complex application or a problem by automating tasks when working on Linux based systems Using both simple one line commands and command sequences complex problems can be solved with ease from text processing to backing up sysadmin tools In this book you ll discover everything you need to know to master shell scripting and make informed choices about the elements you employ Get to grips with the fundamentals of creating and running a script in normal mode and in debug mode Learn about various conditional statements code snippets and realize the power of repetition and loops in your shell script Implement functions and edit files using the Stream Editor script in Perl program in Python as well as complete coverage of other scripting languages to ensure you can choose the best tool for your project Style and approach The book will capture your attention and keep you engaged with the simplicity and clarity of each explanation Every step is accompanied with screen captures so you can cross check the results before moving on [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](#) Chris Johnson,Jayant Varma,2015-06-15 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

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**Lessons in Scientific Computing** Norbert Schorghofer,2018-09-25 Taking an interdisciplinary approach this new book provides a modern introduction to scientific computing exploring numerical methods computer technology and their interconnections which are treated with the goal of facilitating scientific research across all disciplines Each chapter provides an insightful lesson and viewpoints from several subject areas are often compounded within a single chapter Written with an eye on usefulness longevity and breadth *Lessons in Scientific Computing* will serve as a one stop shop for students taking a unified course in scientific computing or seeking a single cohesive text spanning multiple courses Features Provides a unique combination of numerical analysis computer programming and computer hardware in a single text Includes essential topics such as numerical methods approximation theory parallel computing algorithms and examples of computational discoveries in science Not wedded to a specific programming language

*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

**Computerworld** ,1985-11-18 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

**Programming Languages** Terrence W. Pratt,Marvin V. Zelkowitz,2001 This describes programming language design by means of the underlying software and hardware architecture that is required for execution of programs written in those languages

**Mastering Unix Shell Scripting** Randal K. Michael,2003-04-21 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

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 The book covers shell programming with a focus on Linux and the Bash shell it provides credible real world relevance as well as providing the flexible tools to get started immediately

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