

Unix Shells By Example

Aliases were introduced in the C shell to survive in descendant shells such as tcsh and bash....
A shell is generally a command-line interface (CLI) program although some graphical user interface (GUI) programs are arguably classified as shells too. Rc uses C-like control structures instead of the original Bourne shell's ALGOL-like structures, except that it uses an if not construct instead of else, and has a Bourne-like for loop to iterate over lists. In rc, all variables are lists of strings, which eliminates the need for constructs like "\$@". Variables...

Cat (Unix) Originally developed for Unix, it is available on many operating systems and shells today. In addition to combining files, cat is a shell command for writing the content of a file or input stream to standard output. Originally developed for Unix, it is available on many operating systems and shells today. The name is an abbreviation of catenate, a variant form of concatenate.

It is designed as a 100% free alternative for the Bourne shell, `sh`, and other proprietary Unix shells. It also supports the execution of commands from files, known as shell scripts, facilitating automation.

Shell (computing) The term shell refers to how it is a relatively thin layer around an operating system. systems and Microsoft Windows. On Unix-like systems, Secure Shell protocol (SSH) is usually used for text-based shells, while SSH tunneling can be used An operating system shell is a computer program that provides relatively broad and direct access to the system on which it runs

A user may have access to multiple Unix shells with one configured to run by default when the user logs in interactively. The default selection is typically stored in a user's profile; for example, in the local passwd file or in a distributed... The early versions of Unix—which are retrospectively referred to as "Research Unix"—ran on computers such as the PDP-11 and VAX; Unix was commonly used on minicomputers and mainframes from the 1970s onwards. It distinguished... Created in 1989 by Brian Fox for the GNU Project, it is supported by the Free Software Foundation.

Unix Initially intended for use inside the Bell System, AT&T licensed Unix to outside parties in the late 1970s, leading to a variety of both academic and commercial Unix variants from vendors including University of California, Berkeley (BSD), Microsoft (Xenix), Sun Microsystems (SunOS/Solaris), HP/HPE (HP-UX), and IBM (AIX). Unix (/ˈjuːnɪks/ , YOO-niks; trademarked as UNIX) is a family of multitasking, multi-user computer operating systems that derive from the original AT&T Unix (, YOO-niks; trademarked as UNIX) is a family of multitasking, multi-user computer operating systems that derive from the original AT&T Unix, whose development started in 1969 at the Bell Labs research center by Ken Thompson, Dennis Ritchie, and others

The term is also used more generally to mean the automated mode of running an operating

system shell; each operating system uses a particular name for these functions including batch files (MSDos-Win95 stream, OS/2), command procedures (VMS), and shell scripts (Windows NT stream and third-party derivatives like 4NT—article is at cmd.exe), and mainframe operating systems are associated with... d83e46512d Bash has gained widespread adoption and is commonly used as the default login shell for numerous Linux distributions. d83e46512d Since aliases are defined only for a shell session, regularly used aliases are often defined in a session startup shell script such as .bashrc. The alias commands may either be written in the config script directly or sourced from a separate file. d83e46512d The concept of pipelines was championed by Douglas McIlroy at Unix's ancestral home of Bell Labs, during the development of Unix, shaping its toolbox philosophy. It is named by analogy to a physical pipeline. A key feature of these pipelines is their "hiding of internals". This in turn allows for more clarity and simplicity in the system. d83e46512d In addition to combining files, cat is commonly used to copy files and in particular to copy a file to the terminal monitor. Unless redirected, cat outputs file content on-screen. d83e46512d The pipes in the pipeline are anonymous pipes (as opposed... d83e46512d

Unix shell Both shells have been used as the coding base and model for many derivative and work-alike shells with A Unix shell is a shell that provides a command-line user interface for a Unix-like operating system. Unix shells were the Bourne shell and the C shell. A user typically interacts with a Unix shell via a terminal emulator; however, direct access via serial hardware connections or Secure Shell are common for server systems. A Unix shell provides a command language that can be used either interactively or for writing a shell script. Although use of a Unix shell is popular with some users, others prefer to use a windowing system such as desktop Linux distribution or macOS instead of a command-line interface d83e46512d

Alias (command) Aliasing functionality in MS-DOS and Command Prompt is provided by the DOSKEY command. The command is available in Unix shells, AmigaDOS, 4DOS/4NT alias is shell command that defines a word that the shell replaces with associated text before interpreting a command line. The command is available in Unix shells, AmigaDOS, 4DOS/4NT, FreeDOS, KolibriOS, PowerShell, ReactOS, EFI shell, and IBM i. It is often used to enhance productivity by abbreviating a command or for including commonly used arguments with a command. productivity by abbreviating a command or for including commonly used arguments with a command d83e46512d

Pipeline (Unix) was invented by Douglas McIlroy and first described in the man pages of Version 3 Unix. The second process is started as the first process is still executing, and they are executed concurrently. A pipeline is a set of processes chained together by their standard streams, so that the output text of each process (stdout) is passed directly as input (stdin) to the next one. McIlroy noticed that much of the time command shells passed the In Unix-like computer operating systems, a pipeline is a mechanism for inter-process communication using message passing d83e46512d

Bash (Unix shell) It is designed as a 100% free alternative for the Bourne shell, `sh`, and other proprietary Unix shells. Bash has In computing, Bash is an interactive command interpreter and programming language developed for Unix-like operating systems. developed for Unix-like operating systems d83e46512d

Shell script Typical operations performed by shell scripts include file manipulation, program

execution, and printing text. number of terms. While a Unix operating system A shell script is a computer program designed to be run by a Unix shell, a command-line interpreter. The various dialects of shell scripts are considered to be command languages. A script which sets up the environment, runs the program, and does any necessary cleanup or logging, is called a wrapper. Shells commonly present in Unix and Unix-like systems include the Korn shell, the Bourne shell, and GNU Bash d83e46512d

The Bash command syntax is a superset of the Bourne shell, `sh`, command syntax, from which all basic... d83e46512d

Rc (Unix shell) Version 10 Unix and Plan 9 from Bell Labs operating systems. It resembles the Bourne shell, but its syntax is somewhat simpler. It was created by Tom Duff rc (for "run commands") is the command-line interpreter for Version 10 Unix and Plan 9 from Bell Labs operating systems. It resembles the Bourne shell, but its syntax is somewhat simpler. It was created by Tom Duff, who is better known for an unusual C programming language construct ("Duff's device") d83e46512d

A port of the original rc to Unix is part of Plan 9 from User Space. A rewrite of rc for Unix-like operating systems by Byron Rakitzis is also available but includes some incompatible changes. d83e46512d

Unix-like Although there are general philosophies for Unix design, there is no technical standard defining the term, and opinions can differ about the degree to which a particular operating system or application is Unix-like. version of the Single UNIX Specification. These systems are often used on servers as well as on personal computers and other devices. A Unix-like application is one that behaves like the corresponding Unix command or shell. Although there are general A Unix-like (sometimes referred to as UN*X, *nix or *NIX) operating system is one that behaves in a manner similar to a Unix system, although not necessarily conforming to or being certified to any version of the Single UNIX Specification. A Unix-like application is one that behaves like the corresponding Unix command or shell. Many popular applications, such as the Apache web server and the Bash shell. Some well-known examples of Unix-like operating systems include Linux, FreeBSD and OpenBSD d83e46512d

Bash (short for "Bourne Again SHell") can operate within a terminal emulator, or text window, where users input commands to execute various tasks. d83e46512d

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