

# The GNU Awk User's Guide

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## General Introduction

This file documents `awk`, a program that you can use to select particular records in a file and perform operations upon them.

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This is Edition 4.1 of *GAWK: Effective AWK Programming: A User's Guide for GNU Awk*, for the 4.1.2 (or later) version of the GNU implementation of AWK.

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# Awk User Guide

**Norman Earl Smith**



## Awk User Guide:

GAWK Arnold Robbins,1998      GAWK Arnold Robbins,2003      **Effective AWK Programming** Arnold Robbins,1996

**Effective awk Programming** Arnold Robbins,2015-03-03 When processing text files the awk language is ideal for handling data extraction reporting and data reformatting jobs This practical guide serves as both a reference and tutorial for POSIX standard awk and for the GNU implementation called gawk This book is useful for novices and awk experts alike In this thoroughly revised edition author and gawk lead developer Arnold Robbins describes the awk language and gawk program in detail shows you how to use awk and gawk for problem solving and then dives into specific features of gawk System administrators programmers webmasters and other power users will find everything they need to know about awk and gawk You will learn how to Format text and use regular expressions in awk and gawk Process data using awk s operators and built in functions Manage data relationships using associative arrays Define your own functions Think in awk with two full chapters of sample functions and programs Take advantage of gawk s many advanced features Debug awk programs with the gawk built in debugger Extend gawk by writing new functions in C or C This book is published under the terms of the GNU Free Documentation License You have the freedom to copy and modify this GNU manual Royalties from the sales of this book go to the Free Software Foundation and to the author      **Effective Awk Programming** Arnold Robbins,2001-05-23 Effective AWK Programming covers every aspect of the AWK 3 0 3 and 3 0 4 language It offers up to date coverage of the POSIX standard for AWK and distinguishes standard AWK features from GNU AWK specific features The author sheds light on dark corners of the language devotes two chapters to example programs and includes a summary of how the AWK language evolved      **The GNU Awk User's Guide** Arnold D. Robbins,1996-01-01      Effective Awk Programming Arnold Robbins,2001-05-23 Effective awk Programming 3rd Edition focuses entirely onawk exploring it in the greatest depth of the three awk titles we carry It s an excellent companion piece to the more broadly focused second edition This book provides complete coverage of the gawk 3 1 language as well as the most up to date coverage of the POSIX standard forawk available anywhere Author Arnold Robbins clearly distinguishes standard awk features from GNU awk gawk specific features shines light into many of the dark corners of the language areas to watch out for when programming and devotes two full chapters to example programs A brand new chapter is devoted to TCP IP networking with gawk He includes a summary of how the awk language evolved The book also covers Internationalization of gawk Interfacing to i18n at the awk level Two way pipes TCP IP networking via the two way pipe interface The new PROCINFO array which provides information about running gawk Profiling and pretty printing awk programs In addition to covering the awk language this book serves as the official User s Guide for the GNU implementation of awk gawk describing in an integrated fashion the extensions available to the System V Release 4 version of awk that are also available in gawk As the official gawk User s Guide this book will also be available electronically and can be freely copied and distributed under the terms of the Free Software Foundation s Free

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*sed & awk* Dale Dougherty, Arnold Robbins, 1997-03-01

*sed* describes two text processing programs that are mainstays of the UNIX programmer's toolbox *sed* is a stream editor for editing streams of text that might be too large to edit as a single file or that might be generated on the fly as part of a larger data processing step The most common operation done with *sed* is substitution replacing one block of text with another *awk* is a complete programming language Unlike many conventional languages *awk* is data driven you specify what kind of data you are interested in and the operations to be performed when that data is found *awk* does many things for you including automatically opening and closing data files reading records breaking the records up into fields and counting the records While *awk* provides the features of most conventional programming languages it also includes some unconventional features such as extended regular expression matching and associative arrays *sed* *awk* describes both programs in detail and includes a chapter of example *sed* and *awk* scripts This edition covers features of *sed* and *awk* that are mandated by the POSIX standard This most notably affects *awk* where POSIX standardized a new variable *CONVFMT* and new functions *toupper* and *tolower* The *CONVFMT* variable specifies the conversion format to use when converting numbers to strings *awk* used to use *OFMT* for this purpose The *toupper* and *tolower* functions each take a presumably mixed case string argument and return a new version of the string with all letters translated to the corresponding case In addition this edition covers GNU *sed* newly available since the first edition It also updates the first edition coverage of Bell Labs *nawk* and GNU *awk* *gawk* covers *mawk* an additional freely available implementation of *awk* and briefly discusses three commercial versions of *awk* MKS *awk* Thompson Automation *awk* *tawk* and Videosoft *VSAwk*

*Learning the Vi Editor* Linda Lamb, Arnold Robbins, 1998 For many users working in the Unix environment means using *vi* a full screen text editor available on most Unix systems Even those who know *vi* often make use of only a small number of its features *Learning the vi Editor* is a complete guide to text editing with *vi* Topics new to the sixth edition include multiscreen editing and coverage of four *vi* clones *vim* *elvis* *nvi* and *vile* and their enhancements *tovi* such as multi window editing GUI interfaces extended regular expressions and enhancements for programmers A new appendix describes *vi*'s place in the Unix and Internet cultures Quickly learn the basics of editing cursor movement and global search and replacement Then take advantage of the more subtle power of *vi* Extend your editing skills by learning to use *ex* a powerful line editor from within *vi* For easy reference the sixth edition also includes a command summary at the end of each appropriate chapter Topics covered include Basic editing Moving around in a hurry Beyond the basics Greater power with *ex* Global search and replacement Customizing *vi* and *ex* Command shortcuts Introduction to the *vi* clones extensions Then *vi* *elvis* *vim* and *vile* editors Quick reference *tovi* and *ex* commands *vi* and the

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