

# Writing Scientific Software

A GUIDE TO  
GOOD STYLE

SUELY OLIVEIRA & DAVID STEWART

# Writing Scientific Software A Guide To Good Style

**SB Merriam**



## **Writing Scientific Software A Guide To Good Style:**

Writing Scientific Software Suely Oliveira, David E. Stewart, 2006-09-07 The core of scientific computing is designing writing testing debugging and modifying numerical software for application to a vast range of areas from graphics meteorology and chemistry to engineering biology and finance Scientists engineers and computer scientists need to write good code for speed clarity flexibility and ease of re use Oliveira and Stewart s style guide for numerical software points out good practices to follow and pitfalls to avoid By following their advice readers will learn how to write efficient software and how to test it for bugs accuracy and performance Techniques are explained with a variety of programming languages and illustrated with two extensive design examples one in Fortran 90 and one in C other examples in C C Fortran 90 and Java are scattered throughout the book This manual of scientific computing style will be an essential addition to the bookshelf and lab of everyone who writes numerical software

**Writing Scientific Software** Suely Oliveira, 2006 This manual of scientific computing style will prove to be an essential addition to the bookshelf and lab of everyone who writes numerical software Scientists engineers and computer scientists who follow its advice will learn how to write good software and how to test it for bugs accuracy and performance

Writing Scientific Software Suely Oliveira, David Stewart, 2006 A manual and guide to good scientific computing style explaining how to write good software and how to test it for bugs accuracy and performance

Scientific Software Design Damian Rouson, Jim Xia, Xiaofeng Xu, 2011-04-29 The authors analyze how the structure of a package determines its developmental complexity according to such measures as bug search times and documentation information content The work presents arguments for why these issues impact solution cost and time more than does scalable performance The final chapter explores the question of scalable execution and shows how scalable design relates to scalable execution The book s focus is on program organization which has received considerable attention in the broader software engineering community where graphical description standards for modeling software structure and behavior have been developed by computer scientists These discussions might be enriched by engineers who write scientific codes This book aims to bring such scientific programmers into discussion with computer scientists The authors do so by introducing object oriented software design patterns in the context of scientific simulation

**21st Century C** Ben Klemens, 2012-10-15 Throw out your old ideas about C and get to know a programming language that s substantially outgrown its origins With this revised edition of 21st Century C you ll discover up to date techniques missing from other C tutorials whether you re new to the language or just getting reacquainted C isn t just the foundation of modern programming languages it is a modern language ideal for writing efficient state of the art applications Get past idioms that made sense on mainframes and learn the tools you need to work with this evolved and aggressively simple language No matter what programming language you currently favor you ll quickly see that 21st century C rocks Set up a C programming environment with shell facilities makefiles text editors debuggers and memory checkers Use Autotools C s de facto cross platform package manager Learn

about the problematic C concepts too useful to discard Solve C's string building problems with C standard functions Use modern syntactic features for functions that take structured inputs Build high level object based libraries and programs Perform advanced math talk to internet servers and run databases with existing C libraries This edition also includes new material on concurrent threads virtual tables C99 numeric types and other features

**Software Engineering for Science**  
 Jeffrey C. Carver, Neil P. Chue Hong, George K. Thiruvathukal, 2016-11-03 Software Engineering for Science provides an in depth collection of peer reviewed chapters that describe experiences with applying software engineering practices to the development of scientific software It provides a better understanding of how software engineering is and should be practiced and which software engineering practices are effective for scientific software The book starts with a detailed overview of the Scientific Software Lifecycle and a general overview of the scientific software development process It highlights key issues commonly arising during scientific software development as well as solutions to these problems The second part of the book provides examples of the use of testing in scientific software development including key issues and challenges The chapters then describe solutions and case studies aimed at applying testing to scientific software development efforts The final part of the book provides examples of applying software engineering techniques to scientific software including not only computational modeling but also software for data management and analysis The authors describe their experiences and lessons learned from developing complex scientific software in different domains About the Editors Jeffrey Carver is an Associate Professor in the Department of Computer Science at the University of Alabama He is one of the primary organizers of the workshop series on Software Engineering for Science <http://www.SE4Science.org/workshops> Neil P Chue Hong is Director of the Software Sustainability Institute at the University of Edinburgh His research interests include barriers and incentives in research software ecosystems and the role of software as a research object George K Thiruvathukal is Professor of Computer Science at Loyola University Chicago and Visiting Faculty at Argonne National Laboratory His current research is focused on software metrics in open source mathematical and scientific software

*Encyclopedia of Computer Science and Technology* Harry Henderson, 2009 Presents an illustrated A Z encyclopedia containing approximately 600 entries on computer and technology related topics

**Writing Scientific Research in Communication Sciences and Disorders**  
 Robert H. Brookshire, Shelley B. Brundage, 2015-11-02 Writing Scientific Research in Communication Sciences and Disorders is a comprehensive guide to the preparation and publication of research papers for researchers in communication sciences and disorders Individual chapters address the structure content and style of the introduction method results and discussion sections of a research paper The balance of the text examines the writing process including the nuts and bolts of preparing tables and graphs reviewing different voices and grammar issues editing your own work working with editors and peer reviewers and getting started toward becoming a productive writer Each topic is illustrated with informative examples with clear direct and often humorous discussion of what makes the examples good or bad Writing is essential in nearly every

profession and particularly in communication sciences and disorders where researchers must be able to express complex ideas to a variety of audiences from colleagues to members of health care teams to clients and family members Therefore competency in written expression is required for certification and entry into clinical practice in communication sciences and disorders Writing Scientific Research in Communication Sciences and Disorders will be a valuable supplementary text for undergraduate and graduate students in courses that include writing assignments and critical assessment of research literature such as research methods and evidence based clinical methods courses as well as in thesis and dissertation preparation Researchers looking for a guide to help improve their own writing will also find this text to be an invaluable resource that answers the big and little questions that arise in preparing manuscripts *How to Write and Publish a Scientific Paper* Barbara Gastel, Robert A. Day, 2022-06-30 Thoroughly updated throughout this classic practical text on how to write and publish a scientific paper takes its own advice to be as clear and simple as possible The purpose of scientific writing according to Barbara Gastel and Robert A Day is to communicate new scientific findings Science is simply too important to be communicated in anything other than words of certain meaning This clear beautifully written and often funny text is a must have for anyone who needs to communicate scientific information whether they re writing for a professor other scientists or the general public The thoughtfully revised 9th edition retains the most important material including preparing text and graphics publishing papers and other types of writing and plenty of information on writing style while adding up to date advice on copyright presenting online identifying authors creating visual abstracts and writing in English as a non native language A set of valuable appendixes provide ready reference including words and expressions to avoid SI prefixes a list of helpful websites and a glossary Students and working scientists will want to keep *How to Write and Publish a Scientific Paper* at their desks and refer to it at every stage of writing and publication *American Book Publishing Record* ,2006

**Perspectives on Software Documentation** Thomas T. Barker, 1991 Designed to address the randomness of the literature on software documentation This book contains a variety of perspectives tied together by the need to make software products more usable *Bibliotheca Medica Canadiana* ,2000 **Biotechnology Software** ,1987 **New Technical Books** New York Public Library, 1994 **WPA, Writing Program Administration** ,1989 *British Books in Print* ,1985

*Pharmacy* L. Michael Posey, 2009 *Pharmacy An Introduction to the Profession* 2nd Edition is an ideal resource for orientation or introduction to pharmacy courses on both the professional and preprofessional level It provides the basis for beginning pharmacy students to develop an accurate view of the profession they are entering to understand the basic tenets of the profession and to understand the critical issues the profession is facing The book consists of ten chapters addressing core concepts about the profession of pharmacy Chapter eleven provides a selection of readings from the recent pharmacy and biomedical literature Key Features 10 thoroughly updated chapters Chapter 3 on evolution of pharmacy practice toward MTMS Chapter 4 on pharmacy communications by noted expert Bruce Berger Chapter 11 includes all new readings from the

literature Definitions of key terms located throughout the text in the margin and in separate Glossary      *The Social Sciences*  
Nancy L. Herron, 1996 With 1 030 annotated citations arranged by discipline this carefully structured guide offers  
researchers fast and easy access to some of the best and most commonly used resources This book has 1 030 annotated  
citations arranged by discipline into 12 chapters general social sciences political science economics business history law and  
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