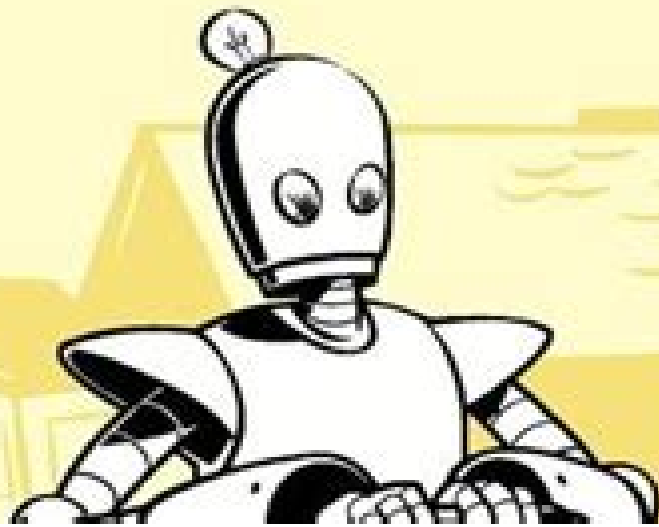


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The Librarian's Introduction to Programming Languages Beth Thomsett-Scott, 2016-06-21 The Librarian s Introduction to Programming Languages presents case studies and practical applications for using the top programming languages in library and information settings While there are books and Web sites devoted to teaching programming there are few works that address multiple programming languages or address the specific reasons why programming is a critical area of learning for library and information science professionals There are many books on programming languages but no recent items directly written for librarians that span a variety of programs Many practicing librarians see programming as something for IT people or beyond their capabilities This book will help these librarians to feel comfortable discussion programming with others by providing an understanding of when the language might be useful what is needed to make it work and relevant tools to extend its application Additionally the inclusion of practical examples lets readers try a small app for the language This also will assist readers who want to learn a language but are unsure of which language would be the best fit for them in terms of learning curve and application Languages covered are JavaScript PERL PHP SQL Python Ruby CC Java This book is designed to provide a basic working knowledge of each language presented case studies which show the programming language used in real ways and resources for exploring each language in more detail

Racket Programming the Fun Way James. W. Stelly, 2021-01-12 An introduction to the Racket functional programming language and DrRacket development environment to explore topics in mathematics mostly recreational and computer science At last a lively guided tour through all the features functions and applications of the Racket programming language You ll learn a variety of coding paradigms including iterative object oriented and logic programming create interactive graphics draw diagrams and solve puzzles as you explore Racket through fun computer science topics from statistical analysis to search algorithms the Turing machine and more Early chapters cover basic Racket concepts like data types syntax variables strings and formatted output You ll learn how to perform math in Racket s rich numerical environment and use programming constructs in different problem domains like

coding solutions to the Tower of Hanoi puzzle Later you ll play with plotting grapple with graphics and visualize data Then you ll escape the confines of the command line to produce animations interactive games and a card trick program that ll dazzle your friends You ll learn how to Use DrRacket an interactive development environment IDE for writing programs Compute classical math problems like the Fibonacci sequence Generate two dimensional function plots and create drawings using graphics primitives Import and export data to and from Racket using ports then visually analyze it Build simple computing devices pushdown automaton Turing machine and so on that perform tasks Leverage Racket s built in libraries to develop a command line algebraic calculator Racket Programming the Fun Way is just like the language itself an embodiment of everything that makes programming interesting and worthwhile and that makes you a better programmer *Data Science Secrets* Jay Samson,2019-09-01 Data Science Secrets is the 1 strategy guide to break into the field of data and get hired as a Data Scientist Data Analyst or Data Engineer This was created by a group of top Data Scientists and Data Hiring Managers in Silicon Valley to share the secrets of landing your dream job Here s what s included Top Interview Questions from companies like Google Facebook Amazon Airbnb and many more plus detailed sections on how to answer the questions effectively and get hired The 8 Week Strategy to find your dream job learn how to get interviews with your top companies and more importantly succeed and get an incredible job offer Online Learning Breakdown we go deep into the pros and cons of the online learning options to help you find the right platform for youIn depth explanations of data roles There are literally hundreds of different roles and job titles in the world of data how do you know which is right for you This section will help you understand how to pursue the role that is the best fit for you *Python Hacking Projects for Beginners* Caleb M. Kingsley,2025-09-30 Master the Art of Ethical Hacking with Python One Real World Project at a Time Are you a beginner who wants to break into the world of ethical hacking but doesn t know where to start Tired of reading dry theory without ever building anything real This hands on project based guide is your ultimate roadmap to learning Python for cybersecurity no fluff no filler just practical hacking tools you ll build yourself Python Hacking Projects for Beginners is the only book you need to start coding real world tools like keyloggers packet sniffers DDoS simulators port scanners and more even if you re new to Python or cybersecurity Inside this step by step guide you ll discover How to install and configure your ethical hacking lab on Windows macOS or Linux The core Python programming skills every hacker must master fast How to build a keylogger from scratch and send logs securely via email Capture screenshots automatically with your own Python based screen sniper Use Scapy to sniff network traffic and analyze packets in real time Write a fast and stealthy port scanner using socket programming Simulate a DDoS attack ethically in a virtual testing environment Create an email bomber tool with built in delay and control features Automate file grabbing filtering by extensions and secure data exfiltration Write a reverse shell in Python and control target systems remotely Learn encryption obfuscation and how to build a basic command and control C2 system Log schedule and report everything with automation for red team simulations Perfect for beginners this book teaches

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also offers valuable perspectives on important computing concepts through the development of programming and problem solving skills using the languages C C Java and Python The beginner will find its carefully paced exercises especially helpful Of course those who are already familiar with programming are likely to derive more benefits from this book After reading this book you will find yourself at a moderate level of expertise in C C Java and Python from which you can take yourself to the next levels The command line interface is one of the nearly all well built trademarks of Linux There exists an ocean of Linux commands permitting you to do nearly everything you can be under the impression of doing on your Linux operating system However this at the end of time creates a problem because of all of so copious commands accessible to manage you don t comprehend where and at which point to fly and learn them especially when you are a learner If you are facing this problem and are peering for a painless method to begin your command line journey in Linux you ve come to the right place as in this book we will launch you to a hold of well liked and helpful Linux commands This book gives a thorough introduction to the C C Java and Python programming languages covering everything from fundamentals to advanced concepts It also includes various exercises that let you put what you learn to use in the real world With step by step instructions and plenty of examples you ll build your knowledge and confidence in Linux and programming as you progress through the exercises By the end of the book you ll have a solid foundation in Linux commands and programming concepts allowing you to take your skills to the next level Whether you re a student aspiring programmer or curious hobbyist this book is the perfect resource to start your journey into the exciting world of Linux and programming

Autotools, 2nd Edition John Calcote, 2019-11-05 The long awaited update to the practitioner s guide to GNU Autoconf Automake and Libtool The GNU Autotools make it easy for developers to create software that is portable across many Unix like operating systems and even Windows Although the Autotools are used by thousands of open source software packages they have a notoriously steep learning curve Autotools is the first book to offer programmers a tutorial based guide to the GNU build system Author John Calcote begins with an overview of high level concepts and a hands on tour of the philosophy and design of the Autotools He then tackles more advanced details like using the M4 macro processor with Autoconf extending the framework provided by Automake and building Java and C sources He concludes with solutions to frequent problems encountered by Autotools users This thoroughly revised second edition has been updated to cover the latest versions of the Autotools It includes five new chapters on topics like pkg config unit and integration testing with Autotest internationalizing with GNU tools the portability of gnuilib and using the Autotools with Windows As with the first edition you ll focus on two projects Jupiter a simple Hello world program and FLAIM an existing complex open source effort containing four separate but interdependent projects Follow along as the author takes Jupiter s build system from a basic makefile to a full fledged Autotools project and then as he converts the FLAIM projects from complex hand coded makefiles to the powerful and flexible GNU build system Learn how to Master the Autotools build system to maximize your software s portability Generate Autoconf configuration scripts to simplify

the compilation process Produce portable makefiles with Automake Build cross platform software libraries with Libtool Write your own Autoconf macros This detailed introduction to the GNU Autotools is indispensable for developers and programmers looking to gain a deeper understanding of this complex suite of tools Stop fighting against the system and make sense of it all with the second edition of Autotools

Scratch 3 Programming Playground Al Sweigart,2021-01-06 A project filled introduction to coding that shows kids how to build programs by making cool games Scratch the colorful drag and drop programming language is used by millions of first time learners worldwide Scratch 3 features an updated interface new programming blocks and the ability to run on tablets and smartphones so you can learn how to code on the go In Scratch 3 Programming Playground you ll learn to code by making cool games Get ready to destroy asteroids shoot hoops and slice and dice fruit Each game includes easy to follow instructions with full color images review questions and creative coding challenges to make the game your own Want to add more levels or a cheat code No problem just write some code You ll learn to make games like Maze Runner escape the maze Snaaaaaake gobble apples and avoid your own tail Asteroid Breaker smash space rocks Fruit Slicer a Fruit Ninja clone Brick Breaker a remake of Breakout the brick breaking classic Platformer a game inspired by Super Mario Bros Learning how to program shouldn t be dry and dreary With Scratch 3 Programming Playground you ll make a game of it Covers Scratch 3

Data Engineering for Cybersecurity James Bonifield,2025-08-26 Turn raw logs into real intelligence Security teams rely on telemetry the continuous stream of logs events metrics and signals that reveal what s happening across systems endpoints and cloud services But that data doesn t organize itself It has to be collected normalized enriched and secured before it becomes useful That s where data engineering comes in In this hands on guide cybersecurity engineer James Bonifield teaches you how to design and build scalable secure data pipelines using free open source tools such as Filebeat Logstash Redis Kafka and Elasticsearch and more You ll learn how to collect telemetry from Windows including Sysmon and PowerShell events Linux files and syslog and streaming data from network and security appliances You ll then transform it into structured formats secure it in transit and automate your deployments using Ansible You ll also learn how to Encrypt and secure data in transit using TLS and SSH Centrally manage code and configuration files using Git Transform messy logs into structured events Enrich data with threat intelligence using Redis and Memcached Stream and centralize data at scale with Kafka Automate with Ansible for repeatable deployments Whether you re building a pipeline on a tight budget or deploying an enterprise scale system this book shows you how to centralize your security data support real time detection and lay the groundwork for incident response and long term forensics

Effective Shell Dave Kerr,2025-07-29 Master the tools Build the workflow Own the shell Effective Shell is the hands on guide for developers who want to master the command line not just to get around but to build a fast flexible and portable development environment This isn t a tour of shell commands It s a blueprint for creating workflows that scale across machines teams and projects You ll go from keystroke level efficiency to composing powerful pipelines writing reliable scripts and automating common

development tasks Then you ll take it further managing your configuration with Git customizing your shell setup and working seamlessly across remote sessions using tools like Vim and tmux By the end your shell won t just be a tool it ll be an extension of your thinking You ll learn how to Find filter and reshape data using grep regular expressions and shell pipelines Write scripts that automate setup configuration and repetitive tasks Create Python based CLI tools to pull and process structured data Manage your environment with Git and version controlled dot files Edit quickly with Vim and multitask efficiently using terminal multiplexers Use AI tools to generate commands debug faster and enhance automation Rather than prescribing a one size fits all toolkit Effective Shell teaches you the tools practices and strategies to build a shell environment that fits the way you work efficient portable and entirely yours Whether you re leveling up from the basics or refining your craft this book will help you think clearly automate confidently and work more effectively in the shell

Arduino for Arduinians John Boxall,2023-10-24 Guided by an expert craftsman with over 30 years of experience you ll build 70 awesome Arduino projects and emerge a true Arduinian ready to invent your own complex creations For Arduino programmers who ve mastered the basics this book is the next step toward becoming an expert Arduinian You ll build 70 complex and practical projects with this versatile microcontroller platform and gain advanced skills to design reliable professional user friendly creations You ll remote control your Arduino via Bluetooth and instant messaging improve the accuracy of clock projects with internet time servers and automatically turn your Arduino off when it completes a task You ll safely control AC mains power and higher currents and conserve battery with low power and sleep modes You ll also use Charlieplexing to control LED matrix displays keep your Arduino running with a watchdog timer communicate over longer wired distances with the RS232 and RS485 buses and much more Along the way you ll build fun and useful devices like A camera enabled circuit to stream videos An MP3 player to listen to audio of your choice A CAN bus circuit to gather speed and engine data from your car A web server to display data captured with an ESP32 board A PS 2 keyboard to improve your user interfaces and easily enter and display data Guided by an Arduino master you ll harness dozens of sensors motors displays and techniques to bring your own expert inventions to life Requirements Arduino Uno and other Arduino compatible microcontrollers andUSBasp programmers Some projects may require other inexpensive parts

Proceedings of the Future Technologies Conference (FTC) 2023, Volume 4 Kohei Arai,2023-11-07 This book is a collection of thoroughly well researched studies presented at the Eighth Future Technologies Conference This annual conference aims to seek submissions from the wide arena of studies like Computing Communication Machine Vision Artificial Intelligence Ambient Intelligence Security and e Learning With an impressive 490 paper submissions FTC emerged as a hybrid event of unparalleled success where visionary minds explored groundbreaking solutions to the most pressing challenges across diverse fields These groundbreaking findings open a window for vital conversation on information technologies in our community especially to foster future collaboration with one another We hope that the readers find this book interesting and inspiring and render their

enthusiastic support toward it **Python Programming** C. K. Dhaliwal,Poonam Rana,T. P. S. Brar,2024-08-02 This book explores Python s rich history dynamic features and its wide ranging applications in web development data science and machine learning From its installation process to interactive help readers embark on a journey through Python s unique characteristics and its distinctions from other programming languages It lays a solid foundation for beginners and seasoned programmers alike Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan or Bhutan

Advanced Python Programming Quan Nguyen,2022-03-25 Write fast robust and highly reusable applications using Python s internal optimization state of the art performance benchmarking tools and cutting edge libraries Key FeaturesBenchmark profile and accelerate Python programs using optimization toolsScale applications to multiple processors with concurrent programmingMake applications robust and reusable using effective design patternsBook Description Python s powerful capabilities for implementing robust and efficient programs make it one of the most sought after programming languages In this book you ll explore the tools that allow you to improve performance and take your Python programs to the next level This book starts by examining the built in as well as external libraries that streamline tasks in the development cycle such as benchmarking profiling and optimizing You ll then get to grips with using specialized tools such as dedicated libraries and compilers to increase your performance at number crunching tasks including training machine learning models The book covers concurrency a major solution to making programs more efficient and scalable and various concurrent programming techniques such as multithreading multiprocessing and asynchronous programming You ll also understand the common problems that cause undesirable behavior in concurrent programs Finally you ll work with a wide range of design patterns including creational structural and behavioral patterns that enable you to tackle complex design and architecture challenges making your programs more robust and maintainable By the end of the book you ll be exposed to a wide range of advanced functionalities in Python and be equipped with the practical knowledge needed to apply them to your use cases What you will learnWrite efficient numerical code with NumPy pandas and XarrayUse Cython and Numba to achieve native performanceFind bottlenecks in your Python code using profilersOptimize your machine learning models with JAXImplement multithreaded multiprocessing and asynchronous programsSolve common problems in concurrent programming such as deadlocksTackle architecture challenges with design patternsWho this book is for This book is for intermediate to experienced Python programmers who are looking to scale up their applications in a systematic and robust manner Programmers from a range of backgrounds will find this book useful including software engineers scientific programmers and software architects Modern Data Analytics in Excel George Mount,2024-04-26 If you haven t modernized your data cleaning and reporting processes in Microsoft Excel you re missing out on big productivity gains And if you re looking to conduct rigorous data analysis more can be done in Excel than you think This practical book serves as an introduction to the modern Excel suite of features along with other powerful tools for analytics George Mount of Stringfest Analytics shows

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