

Starting Out With Python 2nd Edition Gaddis Series

Automate the Boring Stuff with Python, 2nd Edition Black Hat Python, 2nd Edition Python Playground, 2nd Edition How Computers Really Work Innovations in Mechatronics Engineering II Geoprocessing with Python Automate the Boring Stuff with Python Python Penetration Testing Essentials International Symposium on Intelligent Informatics Recent Development in India @ 2025 volume - II Using csh & tcsh Non-Academic Careers for Quantitative Social Scientists Make: Technology on Your Time Volume 25 Dead Simple Python IronPython in Action Building a Flask web app using Bootstrap and an SQLite database Metaheuristics for Enterprise Data Intelligence Python in a Nutshell Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow Electric Machines Al Sweigart Justin Seitz Mahesh Venkitachalam Matthew Justice José Machado Christine Garrard Al Sweigart Mohit Raj Sabu M. Thampi Mr. Sudipta Banerjee Paul DuBois Natalie Jackson Mark Frauenfelder Jason C McDonald Christian J. Muirhead MARK JOHN LADO Kaustubh Vaman Sakhare Alex Martelli Aurélien Géron Dionysios Aliprantis

Automate the Boring Stuff with Python, 2nd Edition Black Hat Python, 2nd Edition Python Playground, 2nd Edition How Computers Really Work Innovations in Mechatronics Engineering II Geoprocessing with Python Automate the Boring Stuff with Python Python Penetration Testing Essentials International Symposium on Intelligent Informatics Recent Development in India @ 2025 volume - II Using csh & tcsh Non-Academic Careers for Quantitative Social Scientists Make: Technology on Your Time Volume 25 Dead Simple Python IronPython in Action Building a Flask web app using Bootstrap and an SQLite database Metaheuristics for Enterprise Data Intelligence Python in a Nutshell Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow Electric Machines Al Sweigart Justin Seitz Mahesh Venkitachalam Matthew Justice José Machado Christine Garrard Al Sweigart Mohit Raj Sabu M. Thampi Mr. Sudipta Banerjee Paul DuBois Natalie Jackson Mark Frauenfelder Jason C McDonald Christian J. Muirhead MARK JOHN LADO Kaustubh Vaman Sakhare Alex Martelli Aurélien Géron Dionysios Aliprantis

learn how to code while you write programs that effortlessly perform useful feats of automation the second edition of this international fan favorite includes a brand new chapter on input validation gmail and google sheets automations tips for updating csv files and more if you've ever spent hours renaming files or updating spreadsheet cells you know how tedious tasks like these can be but what if you could have your computer do them for you automate the boring stuff with python 2nd edition teaches even the technically uninclined how to write programs that do in minutes what would take hours to do by hand no prior coding experience required this new fully revised edition of al sweigart's bestselling pythonic classic automate the boring stuff with python covers all the basics of python 3 while exploring its rich library of modules for performing specific tasks like scraping data off the filling out forms renaming files organizing folders sending email responses and merging splitting or encrypting pdfs there's also a brand new chapter on input validation tutorials on automating gmail and google sheets tips on automatically updating csv files and other recent feats of automations that improve your efficiency detailed step by step instructions walk you through each program allowing you to create useful tools as you build out your programming skills and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks boring tasks no longer have to take to get through and neither does learning python

fully updated for python 3 the second edition of this worldwide bestseller over 100 000 copies sold explores the stealthier side of programming and brings you all new strategies for your hacking projects when it comes to creating powerful and effective hacking tools python is the language of choice for most security analysts in this second edition of the bestselling black hat python you'll explore the darker side of python's capabilities everything from writing network sniffers stealing email credentials and bruteforcing directories to crafting mutation fuzzers investigating virtual machines and creating stealthy trojans all of the code in this edition has been updated to python 3 x you'll also find new coverage of bit shifting code hygiene and offensive forensics with the volatility framework as well as expanded explanations of the python libraries ctypes struct lxml and beautifulsoup and offensive hacking strategies like splitting bytes leveraging computer vision libraries and scraping websites you'll even learn how to create a trojan command and control server using github detect sandboxing and automate common malware tasks like keylogging and screenshotting extend the burp suite web hacking tool escalate windows privileges with creative process control use offensive memory forensics tricks to retrieve password hashes and find vulnerabilities

on a virtual machine abuse windows com automation exfiltrate data from a network undetected when it comes to offensive security you need to be able to create powerful tools on the fly learn how with black hat python

put the fun back in python programming and build your skills as you create 3d simulations and graphics speech recognition machine learning systems iot devices and more the fully updated 2nd edition is here now with 5 brand new projects harness the power of python as you turn code into tangible creations with python playground a collection of 15 inventive projects that will expand your programming horizons spark your curiosity and elevate your coding skills go beyond the basics as you write programs to generate art and music simulate real world phenomena and interact with hardware all through the use of python and common libraries such as numpy matplotlib and pillow as you work through the book s projects you will craft intricate spirograph like designs with parametric equations and the turtle module generate music by synthesizing plucked string sounds transform everyday images into ascii art photomosaics and eye popping autostereograms design engaging cellular automata and flocking simulations explore the realm of 3d graphics from basic shape rendering to visualizing mri scan data build a raspberry pi powered laser show that dances along with music new to this edition we ve expanded your playground with five new projects you ll draw fractals bring conway s game of life into 3d space and use a raspberry pi and python to create a musical instrument an iot garden monitor and even a machine learning driven speech recognition system whether you re a seasoned professional or just getting started you ll find python playground to be a great way to learn experiment with and master this versatile programming language covers python 3 x

an approachable hands on guide to understanding how computers work from low level circuits to high level code how computers really work is a hands on guide to the computing ecosystem everything from circuits to memory and clock signals machine code programming languages operating systems and the internet but you won t just read about these concepts you ll test your knowledge with exercises and practice what you learn with 41 optional hands on projects build digital circuits craft a guessing game convert decimal numbers to binary examine virtual memory usage run your own web server and more explore concepts like how to think like a software engineer as you use data to describe a real world concept use ohm s and kirchhoff s laws to analyze an electrical circuit think like a computer as you practice binary addition and execute a program in your mind step by step the book s projects will have you translate your

learning into action as you learn how to use a multimeter to measure resistance current and voltage build a half adder to see how logical operations in hardware can be combined to perform useful functions write a program in assembly language then examine the resulting machine code learn to use a debugger disassemble code and hack a program to change its behavior without changing the source code use a port scanner to see which internet ports your computer has open run your own server and get a solid crash course on how the web works and since a picture is worth a thousand bytes chapters are filled with detailed diagrams and illustrations to help clarify technical complexities requirements the projects require a variety of hardware electronics projects need a breadboard power supply and various circuit components software projects are performed on a raspberry pi appendix b contains a complete list even if you skip the projects the book s major concepts are clearly presented in the main text

this book covers a variety of topics in the field of mechatronics engineering with a special focus on innovative control systems and automation concepts for a wide range of applications based on a set of papers presented at the 2nd international conference innovation in engineering icie held in minho portugal on june 28 30 2022 the chapters report on cutting edge control algorithms for mobile robots automatic monitoring systems and intelligent predictive maintenance techniques they cover advanced scheduling risk assessment and decision making strategies and their applications in industrial production training and education and service organizations this volume which belongs to a three volume set provides engineering researchers and professionals with a timely overview and extensive information on trends and technologies behind the future developments of mechatronics systems in the era of industry 4 0

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if you ve ever spent hours renaming files or updating hundreds of spreadsheet cells you know how tedious tasks like these can be but what if you could have your computer do them for you in automate the boring stuff with python you ll learn how to use python to write programs that do in minutes what would take you hours to do by hand no prior programming experience required once you ve mastered the basics of programming you ll create python programs that effortlessly perform useful and impressive feats of automation to search for text in a file or across multiple files create update move and rename files and folders search the and download online content update and format data in excel spreadsheets of any size split merge watermark and encrypt pdfs send reminder emails and text notifications fill out online forms step by step instructions walk you through each program and practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks don t spend your time doing work a well trained monkey could do even if you ve never written a line of code you can make your computer do the grunt work learn how in automate the boring stuff with python note the programs in this book are written to run on python 3

this book gives you the skills you need to use python for penetration testing with the help of detailed code examples this book has been updated for python 3.6.3 and kali linux 2018.1 key features detect and avoid various attack types that put the privacy of a system at risk leverage python to build efficient code and eventually build a robust environment learn about securing wireless applications and information gathering on a web server book description this book gives you the skills you need to use python for

penetration testing pentesting with the help of detailed code examples we start by exploring the basics of networking with python and then proceed to network hacking then you will delve into exploring python libraries to perform various types of pentesting and ethical hacking techniques next we delve into hacking the application layer where we start by gathering information from a website we then move on to concepts related to website hacking such as parameter tampering ddos xss and sql injection by reading this book you will learn different techniques and methodologies that will familiarize you with python pentesting techniques how to protect yourself and how to create automated programs to find the admin console sql injection and xss attacks what you will learn the basics of network pentesting including network scanning and sniffing wireless wired attacks and building traps for attack and torrent detection server footprinting and web application attacks including the xss and sql injection attack wireless frames and how to obtain information such as ssid bssid and the channel number from a wireless frame using a python script the importance of web server signatures email gathering and why knowing the server signature is the first step in hacking who this book is for if you are a python programmer a security researcher or an ethical hacker and are interested in penetration testing with the help of python then this book is for you even if you are new to the field of ethical hacking this book can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion

this book constitutes thoroughly refereed post conference proceedings of the 7th international symposium on intelligent informatics isi 2022 from august 31 to september 1 2 2022 trivandrum india the revised papers presented are carefully reviewed and selected from several initial submissions the scope of the symposium includes ai machine learning cognitive computing soft computing security informatics data science computer vision pattern recognition intelligent software engineering intelligent networked systems iot cyber physical systems and nlp the book is directed to the researchers and scientists engaged in various fields of intelligent informatics

if you use unix you probably use csh to type commands even if you ve never heard of it it s the standard shell command line on most unix systems tcsh is an enhanced version that s freely available and highly recommended using csh tcsh describes from the beginning how to use these shells interactively more important it shows how to get your work done faster with less typing even if you ve used unix for years techniques described in this book can make you more efficient you ll learn how to make your prompt tell you where you are no more pwd use what you ve typed

before history type long command lines with very few keystrokes command and filename completion remind yourself of filenames when in the middle of typing a command edit a botched command instead of retyping it this book does not cover programming or script writing in csh or tcsh because the tasks are better done with a different shell such as sh the bourne shell or a language like perl

this book is a guide to non academic careers for quantitative social scientists written by social science phds working in large corporations non profits tech startups and alt academic positions in higher education this book consists of more than a dozen chapters on various topics on finding rewarding careers outside the academy chapters are organized in three parts part i provides an introduction to the types of jobs available to social science phds where those jobs can be found and what the work looks like in those positions part ii creates a guide for social science phds on how to set themselves up for such careers including navigating the academic world of graduate school while contemplating non academic options and selling their academic experience in a non academic setting part iii offers perspectives on timelines for making non academic career decisions lifestyle differences between academia and non academic jobs and additional resources for those considering a non academic route providing valuable insight on non academic careers from those who have successfully made the transition this volume will be an asset to graduate students advisors and recent phds in quantitative social science

the first magazine devoted entirely to do it yourself technology projects presents its 25th quarterly edition for people who like to tweak disassemble recreate and invent cool new uses for technology make volume 25 is all about the arduino revolution give your gadgets a brain previously out of reach for the do it yourselfer the tiny computers called microcontrollers are now so cheap and easy to use that anyone can make their stuff smart with a microcontroller your gadget can sense the environment talk to the internet or other hardware and make things happen in the real world by controlling motors lights or any electronic device the arduino is an easy to use microcontroller board it's like an r d lab on your kitchen table for prototyping any gadget we show you how to make one and how to use arduinos and other microcontrollers to make an automatic yogurt maker a vintage skype telephone a gumball machine that recognizes your secret knock and more plus make a helicopter rocket gourmet sous vide food cooker reverse geocache treasure box and many more fun diy projects

the complete core language for existing programmers dead simple python is a thorough

introduction to every feature of the python language for programmers who are impatient to write production code instead of revisiting elementary computer science topics you ll dive deep into idiomatic python patterns so you can write professional python programs in no time after speeding through python s basic syntax and setting up a complete programming environment you ll learn to work with python s dynamic data typing its support for both functional and object oriented programming techniques special features like generator expressions and advanced topics like concurrency you ll also learn how to package distribute debug and test your python project master how to make python s dynamic typing work for you to produce cleaner more adaptive code harness advanced iteration techniques to structure and process your data design classes and functions that work without unwanted surprises or arbitrary constraints use multiple inheritance and introspection to write classes that work intuitively improve your code s responsiveness and performance with asynchrony concurrency and parallelism structure your python project for production grade testing and distribution the most pedantically pythonic primer ever printed dead simple python will take you from working with the absolute basics to coding applications worthy of publication

in 2005 microsoft quietly announced an initiative to bring dynamic languages to the net platform the starting point for this project was a net implementation of python dubbed ironpython after a couple years of incubation ironpython is ready for real world use it blends the simplicity elegance and dynamism of python with the power of the net framework ironpython in action offers a comprehensive hands on introduction to microsoft s exciting new approach for programming the net framework it approaches ironpython as a first class net language fully integrated with the net environment visual studio and even the open source mono implementation you ll learn how ironpython can be embedded as a ready made scripting language into c and vb net programs used for writing full applications or for web development with asp even better you ll see how ironpython works in silverlight for client side web programming ironpython opens up exciting new possibilities because it s a dynamic language it permits programming paradigms not easily available in vb and c in this book authors michael foord and christian muirhead explore the world of functional programming live introspection dynamic typing and duck typing metaprogramming and more ironpython in action explores these topics with examples making use of the python interactive console to explore the net framework with live objects the expert authors provide a complete introduction for programmers to both the python language and the power of the net framework the book also shows how to extend ironpython with c extending c and vb net applications with python using ironpython with net 3 0 and

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with the emergence of the data economy information has become integral to business excellence every enterprise irrespective of its domain of interest carries and processes a lot of data in their day to day activities converting massive datasets into insightful information plays an important role in developing better business solutions data intelligence and its analysis pose several challenges in data representation building

knowledge systems issue resolution and predictive systems for trend analysis and decisionmaking the data available could be of any modality especially when data is associated with healthcare biomedical finance retail cybersecurity networking supply chain management manufacturing etc the optimization of such systems is therefore crucial to leveraging the best outcomes and conclusions to this end ai based nature inspired optimization methods or approximation based optimization methods are becoming very powerful notable metaheuristics include genetic algorithms differential evolution ant colony optimization particle swarm optimization artificial bee colony grey wolf optimizer political optimizer cohort intelligence and league championship algorithm this book provides a systematic discussion of ai based metaheuristics application in a wide range of areas including big data intelligence and predictive analytics enterprise analytics graph optimization algorithms machine learning and ensemble learning computer vision enterprise practices and data benchmarking

python was recently ranked as today s most popular programming language on the tiobe index thanks to its broad applicability to design and prototyping to testing deployment and maintenance with this updated fourth edition you ll learn how to get the most out of python whether you re a professional programmer or someone who needs this language to solve problems in a particular field carefully curated by recognized experts in python this new edition focuses on version 3 10 bringing this seminal work on the python language fully up to date on five version releases including preview coverage of upcoming 3 11 features this handy guide will help you learn how python represents data and program as objects understand the value and uses of type annotations examine which language features appeared in which recent versions discover how to use modern python idiomatically learn ways to structure python projects appropriately understand how to debug python code

through a recent series of breakthroughs deep learning has boosted the entire field of machine learning now even programmers who know close to nothing about this technology can use simple efficient tools to implement programs capable of learning from data this bestselling book uses concrete examples minimal theory and production ready python frameworks scikit learn keras and tensorflow to help you gain an intuitive understanding of the concepts and tools for building intelligent systems with this updated third edition author aurélien géron explores a range of techniques starting with simple linear regression and progressing to deep neural networks numerous code examples and exercises throughout the book help you apply what you ve learned programming experience is all you need to get started use scikit learn to track an

example ml project end to end explore several models including support vector machines decision trees random forests and ensemble methods exploit unsupervised learning techniques such as dimensionality reduction clustering and anomaly detection dive into neural net architectures including convolutional nets recurrent nets generative adversarial networks autoencoders diffusion models and transformers use tensorflow and keras to build and train neural nets for computer vision natural language processing generative models and deep reinforcement learning

demystifies the operation of electric machines by bridging electromagnetic fields electric circuits numerical analysis and computer programming ideal for graduates and senior undergraduates taking courses on all aspects of electric machine design and control and accompanied by downloadable python code and instructor solutions

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