

# Head First Python 2nd Edition Pdf

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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

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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

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the amazingly powerful tkinter prior knowledge of tkinter is required

cd rom contains programming examples from the book and a demo of the pythonworks ide

don't waste time bending python to fit patterns you've learned in other languages python's simplicity lets you become productive quickly but often this means you aren't using everything the language has to offer with the updated edition of this hands on guide you'll learn how to write effective modern python 3 code by leveraging its best ideas discover and apply idiomatic python 3 features beyond your past experience author luciano ramalho guides you through python's core language features and libraries and teaches you how to make your code shorter faster and more readable complete with major updates throughout this new edition features five parts that work as five short books within the book data structures sequences dicts sets unicode and data classes functions as objects first class functions related design patterns and type hints in function declarations object oriented idioms composition inheritance mixins interfaces operator overloading protocols and more static types control flow context managers generators coroutines async await and thread process pools metaprogramming properties attribute descriptors class decorators and new class metaprogramming hooks that replace or simplify metaclasses

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

this book has two objectives to provide a comprehensive reference on using xml with python and to illustrate the practical applications of these technologies in an enterprise environment with examples

the definitive unix resource fully updated get cutting edge coverage of the newest releases of unix including solaris 10 all linux distributions hp ux aix and freebsd from this thoroughly revised one stop resource for users at all experience levels written by unix experts with many years of experience starting with bell laboratories unix the complete reference second edition provides step by step instructions on how to use unix and take advantage of its powerful tools and utilities get up and running on unix quickly use the command shell and desktop and access the internet and e mail you ll also learn to administer systems and networks develop applications and secure your unix environment up to date chapters on unix desktops samba python java apache and unix development are included install configure and maintain unix on your pc or workstation work with files directories commands and the unix shell create and modify text files using powerful text editors use unix desktops including gnome cde and kde as an end user or system administrator use and manage e mail tcp ip networking and internet services protect and maintain the security of your unix system and network share devices printers and files between windows and unix systems use powerful unix tools including awk sed and grep develop your own shell python and perl scripts and java c and c programs under unix set up apache servers and develop browser independent sites and applications

improve your software engineering practices to tackle inefficiencies errors and other perils that emerge due to bad code key features enhance your coding skills to increase efficiency as well as reflect the new features introduced in python 3 9 understand how to apply microservices to your legacy systems by implementing practical techniques learn to implement the refactoring techniques and solid principles in python book description the python language is immensely prevalent in numerous areas such as software construction systems administration and data processing experienced professionals in every field face the challenges of disorganization poor readability and testability due to unstructured code with updated code and revised content aligned to the new features of python 3 9 this second edition of clean code in python will provide you with all the tools you need to overcome these obstacles and manage your projects successfully the book

begins by describing the basic elements of writing clean code and how it plays a key role in python programming you will learn about writing efficient and readable code using the python standard library and best practices for software design the book delves more deeply into object oriented programming in python and shows you how to use objects with descriptors and generators it will also show you the design principles of software testing and how to resolve problems by implementing software design patterns in your code in the final chapter we break down a monolithic application to a microservice one starting from the code as the basis for a solid platform by the end of this clean code book you will be proficient in applying industry approved coding practices to design clean sustainable and readable real world python code what you will learn set up a productive development environment by leveraging automatic tools leverage the magic methods in python to write better code abstracting complexity away and encapsulating details create advanced object oriented designs using unique features of python such as descriptors eliminate duplicated code by creating powerful abstractions using software engineering principles of object oriented design create python specific solutions using decorators and descriptors refactor code effectively with the help of unit tests build the foundations for solid architecture with a clean code base as its cornerstone who this book is for this book will appeal to team leads software architects and senior software engineers who want to learn python coding techniques and work on their legacy systems to save cost and improve efficiency the book assumes that you have a strong understanding of programming

an updated guide to programming your own raspberry pi projects learn to create inventive programs and fun games on your powerful raspberry pi with no programming experience required this practical tab book has been revised to fully cover the new raspberry pi 2 including upgrades to the raspbian operating system discover how to configure hardware and software write python scripts create user friendly guis and control external electronics diy projects include a hangman game rgb led controller digital clock and raspirobot complete with an ultrasonic rangefinder set up your raspberry pi and explore its features navigate files folders and menus write python programs using the idle editor use strings lists functions and dictionaries work with modules classes and methods create user friendly games using pygame build intuitive user interfaces with tkinter attach external electronics through the gpio port add powerful features to your projects

easy to understand and fun to read this updated edition of introducing python is ideal for beginning programmers as well as those new to the

language author bill lubanovic takes you from the basics to more involved and varied topics mixing tutorials with cookbook style code recipes to explain concepts in python 3 end of chapter exercises help you practice what you ve learned you ll gain a strong foundation in the language including best practices for testing debugging code reuse and other development tips this book also shows you how to use python for applications in business science and the arts using various python tools and open source packages

the first book to tie together the commercial world of oracle and the free wheeling world of open source software this guide describes nearly 100 open source tools from the wide applied linux apache to the oracle specific orasoft orac readers learn where to get them their advantages to oracle developers and dbas and how to create and release new open source oracle tools

unlock the groundbreaking advances of deep learning with this extensively revised edition of the bestselling original learn directly from the creator of keras and master practical python deep learning techniques that are easy to apply in the real world in deep learning with python second edition you will learn deep learning from first principles image classification image segmentation timeseries forecasting text classification and machine translation text generation neural style transfer and image generation deep learning with python has taught thousands of readers how to put the full capabilities of deep learning into action this extensively revised second edition introduces deep learning using python and keras and is loaded with insights for both novice and experienced ml practitioners you ll learn practical techniques that are easy to apply in the real world and important theory for perfecting neural networks purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology recent innovations in deep learning unlock exciting new software capabilities like automated language translation image recognition and more deep learning is becoming essential knowledge for every software developer and modern tools like keras and tensorflow put it within your reach even if you have no background in mathematics or data science about the book deep learning with python second edition introduces the field of deep learning using python and the powerful keras library in this new edition keras creator françois chollet offers insights for both novice and experienced machine learning practitioners as you move through this book you ll build your understanding through intuitive explanations crisp illustrations and clear examples you ll pick up the skills to start developing deep learning applications what s inside deep learning from first principles

image classification and image segmentation time series forecasting text classification and machine translation text generation neural style transfer and image generation about the reader for readers with intermediate python skills no previous experience with keras tensorflow or machine learning is required about the author françois chollet is a software engineer at google and creator of the keras deep learning library table of contents 1 what is deep learning 2 the mathematical building blocks of neural networks 3 introduction to keras and tensorflow 4 getting started with neural networks classification and regression 5 fundamentals of machine learning 6 the universal workflow of machine learning 7 working with keras a deep dive 8 introduction to deep learning for computer vision 9 advanced deep learning for computer vision 10 deep learning for timeseries 11 deep learning for text 12 generative deep learning 13 best practices for the real world 14 conclusions

this books teaches fundamental programming concepts using the powerful yet easy to learn python programming language python is a cross platform language used by organizations such as google and nasa designed for rapid application prototyping and development used by itself or with other languages python allows the developer to quickly and efficiently write programs without getting in the way this book provides the reader with basic programming ideas applicable to a wide range of tasks and can be used with other languages after completing this book the reader should be able to quickly create simple to moderately complex programs and have a foundation for further study topics include core python language both versions 2 x and 3 x object oriented programming databases graphical user interfaces web programming and simple game development

grasp machine learning concepts techniques and algorithms with the help of real world examples using python libraries such as tensorflow and scikit learn key featuresexploit the power of python to explore the world of data mining and data analyticsdiscover machine learning algorithms to solve complex challenges faced by data scientists todayuse python libraries such as tensorflow and keras to create smart cognitive actions for your projectsbook description the surge in interest in machine learning ml is due to the fact that it revolutionizes automation by learning patterns in data and using them to make predictions and decisions if you re interested in ml this book will serve as your entry point to ml python machine learning by example begins with an introduction to important ml concepts and implementations using python libraries each chapter of the book walks you through an industry adopted application you ll implement ml techniques in areas such as exploratory data analysis feature engineering and natural

language processing nlp in a clear and easy to follow way with the help of this extended and updated edition you ll understand how to tackle data driven problems and implement your solutions with the powerful yet simple python language and popular python packages and tools such as tensorflow scikit learn gensim and keras to aid your understanding of popular ml algorithms the book covers interesting and easy to follow examples such as news topic modeling and classification spam email detection stock price forecasting and more by the end of the book you ll have put together a broad picture of the ml ecosystem and will be well versed with the best practices of applying ml techniques to make the most out of new opportunities what you will learnunderstand the important concepts in machine learning and data scienceuse python to explore the world of data mining and analyticsscale up model training using varied data complexities with apache sparkdelve deep into text and nlp using python libraries such nltk and gensimselect and build an ml model and evaluate and optimize its performanceimplement ml algorithms from scratch in python tensorflow and scikit learnwho this book is for if you re a machine learning aspirant data analyst or data engineer highly passionate about machine learning and want to begin working on ml assignments this book is for you prior knowledge of python coding is assumed and basic familiarity with statistical concepts will be beneficial although not necessary

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