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PYTHON PROGRAMMER'S TOOLKIT Securely Leverage Open-Source Software with Python AI Toolkit for IBM z/OS GUI Programming with Python Natural Language Processing with Python wxPython Recipes Python Tools for Visual Studio A Python Data Analyst's Toolkit A Python Data Analyst's Toolkit Hands-On Machine Learning with scikit-learn and Scientific Python Toolkits Pro Python 3 Learning Python Python GUI Programming with Tkinter Python GUI Programming with Tkinter Wxpython in Action Python Cookbook WxPython Python Tools for Scientists Practical Data Science with Python Interactive Applications Using Matplotlib A Python Guide for Web Scraping A Comprehensive Python Toolkit for Harnessing Cloud-based High-throughput Computing to Support Hydrologic Modeling Workflows Modern Tkinter for Busy Python Developers Beginning Python Python Tools for Visual Studio Tkinter GUI Programming by Example Python Programming Learning Python Web Penetration Testing Machine Learning in Python Python for Data Science Python Data Science Handbook Programming Python Python Tools for Scientists Python Programming On Win32 Python in a Nutshell Python Pocket Reference Python Data Science Handbook Bioinformatics Programming Using Python Programming in Python (2 in 1 eBooks) Python for Everyone Hands-On Python Natural Language Processing

PYTHON PROGRAMMER'S TOOLKIT 2023-05-10 open source software oss is widely available and serves as an essential component for enterprises in the artificial intelligence ai and machine learning ml industry specifically the open source programming language python is one of the most versatile and popular programming languages that are used in the world at the time of writing this situation is especially true in the data science community where python provides many libraries and tools that enable essential ai and ml functions and where it is supported by a large community of developers that actively contribute to its development understanding and managing vulnerabilities within oss can be complex because of the many components dependencies and contributors that are involved although the nature of oss helps balance access to programming and technology it also results in fast paced changes to software which emphasizes the importance of software currency to minimize security concerns enterprises understand the critical need to have access to and leverage reputable open source projects with proper maintenance updates transparency reliable support and a sense of control to form a secure foundation for implementing ai solutions python ai toolkit for ibm z os is a powerful set of tools and libraries that is used to establish a secure foundation for ai development and deployment on z os so that enterprises can leverage their existing infrastructure for these mission critical applications the oss that is provided within python ai toolkit for ibm z os is scanned and vetted for security vulnerabilities so that users can make informed decisions when leveraging these python packages packages can be installed and managed by using the package installer for python pip which is a common python package manager enabling a familiar flexible and agile delivery experience while empowering developers to build ai solutions

Securely Leverage Open-Source Software with Python AI Toolkit for IBM z/OS 2001 this book offers a highly accessible introduction to natural language processing the field that supports a variety of language technologies from predictive text and email filtering to automatic summarization and translation with it you ll learn how to write python programs that work with large collections of unstructured text you ll access richly annotated datasets using a comprehensive range of linguistic data structures and you ll understand the main algorithms for analyzing the content and structure of written communication packed with examples and exercises natural language processing with python will help you extract information from unstructured text either to guess the topic or identify named entities analyze linguistic structure in text including parsing and semantic analysis access popular linguistic databases including wordnet and treebanks integrate techniques drawn from fields as diverse as linguistics and artificial intelligence this book will help you gain practical skills in natural language processing using the python programming language and the natural language toolkit nltk open source library if you re interested in developing web applications analyzing multilingual news sources or documenting endangered languages or if you re simply curious to have a programmer s perspective on how human language works you ll find natural language processing with python both fascinating and immensely useful

GUI Programming with Python 2009-06-12 quickly discover solutions to common problems learn best practices and understand everything wxpython has to offer this book is for anyone wanting to learn more about how to use the wxpython desktop gui toolkit it assumes some prior knowledge of python and a general understanding of wxpython or gui development and contains more than 50 recipes covering various tasks and aspects of the toolkit wxpython recipes guides you step by step the book takes you through how to create user interfaces in python including adding widgets changing background images manipulating dialogs managing data and much more examples target both python 2 x and 3 x and cover both wxpython 3 0 and phoenix offering a complete collection of ideas to improve your gui development what you ll learn work with ui elements such as widgets buttons images boxes and more handle data in files and notebooks implement xml and

using xml resources xrc customize the behavior of panels and objects who this book is for people who are already familiar with the python programming language and also have a basic understanding of wxpython readers who understand event loops and the basics of creating user interfaces with another python ui toolkit such as tkinter or pyqt

Natural Language Processing with Python 2017-12-12 this is a hands on guide that provides exemplary coverage of all the features and concepts related to ptvs the book is intended for developers who are aiming to enhance their productivity in python projects with automation tools that visual studio provides for the net community some basic knowledge of python programming is essential

wxPython Recipes 2014-04-21 explore the fundamentals of data analysis and statistics with case studies using python this book will show you how to confidently write code in python and use various python libraries and functions for analyzing any dataset the code is presented in jupyter notebooks that can further be adapted and extended this book is divided into three parts programming with python data analysis and visualization and statistics you ll start with an introduction to python the syntax functions conditional statements data types and different types of containers you ll then review more advanced concepts like regular expressions handling of files and solving mathematical problems with python the second part of the book will cover python libraries used for data analysis there will be an introductory chapter covering basic concepts and terminology and one chapter each on numpy the scientific computation library pandas the data wrangling library and visualization libraries like matplotlib and seaborn case studies will be included as examples to help readers understand some real world applications of data analysis the final chapters of book focus on statistics elucidating important principles in statistics that are relevant to data science these topics include probability bayes theorem permutations and combinations and hypothesis testing anova chi squared test z test and t test and how the scipy library enables simplification of tedious calculations involved in statistics you will further your programming and analytical skills with python solve mathematical problems in calculus and set theory and algebra with python work with various libraries in python to structure analyze and visualize data tackle real life case studies using python review essential statistical concepts and use the scipy library to solve problems in statistics

Python Tools for Visual Studio 2021 explore the fundamentals of data analysis and statistics with case studies using python this book will show you how to confidently write code in python and use various python libraries and functions for analyzing any dataset the code is presented in jupyter notebooks that can further be adapted and extended this book is divided into three parts programming with python data analysis and visualization and statistics you ll start with an introduction to python the syntax functions conditional statements data types and different types of containers you ll then review more advanced concepts like regular expressions handling of files and solving mathematical problems with python the second part of the book will cover python libraries used for data analysis there will be an introductory chapter covering basic concepts and terminology and one chapter each on numpy the scientific computation library pandas the data wrangling library and visualization libraries like matplotlib and seaborn case studies will be included as examples to help readers understand some real world applications of data analysis the final chapters of book focus on statistics elucidating important principles in statistics that are relevant to data science these topics include probability bayes theorem permutations and combinations and hypothesis testing anova chi squared test z test and t test and how the scipy library enables simplification of tedious calculations involved in statistics what you ll learn further your programming and analytical skills with python solve mathematical problems in calculus and set theory and algebra with python work with various libraries in python

to structure analyze and visualize data tackle real life case studies using python review essential statistical concepts and use the scipy library to solve problems in statistics who this book is for professionals working in the field of data science interested in enhancing skills in python data analysis and statistics

A Python Data Analyst's Toolkit 2021-02-21 integrate scikit learn with various tools such as numpy pandas imbalanced learn and scikit surprise and use it to solve real world machine learning problems key featuresdelve into machine learning with this comprehensive guide to scikit learn and scientific pythonmaster the art of data driven problem solving with hands on examplesfoster your theoretical and practical knowledge of supervised and unsupervised machine learning algorithmsbook description machine learning is applied everywhere from business to research and academia while scikit learn is a versatile library that is popular among machine learning practitioners this book serves as a practical guide for anyone looking to provide hands on machine learning solutions with scikit learn and python toolkits the book begins with an explanation of machine learning concepts and fundamentals and strikes a balance between theoretical concepts and their applications each chapter covers a different set of algorithms and shows you how to use them to solve real life problems you ll also learn about various key supervised and unsupervised machine learning algorithms using practical examples whether it is an instance based learning algorithm bayesian estimation a deep neural network a tree based ensemble or a recommendation system you ll gain a thorough understanding of its theory and learn when to apply it as you advance you ll learn how to deal with unlabeled data and when to use different clustering and anomaly detection algorithms by the end of this machine learning book you ll have learned how to take a data driven approach to provide end to end machine learning solutions you ll also have discovered how to formulate the problem at hand prepare required data and evaluate and deploy models in production what you will learnunderstand when to use supervised unsupervised or reinforcement learning algorithmsfind out how to collect and prepare your data for machine learning taskstackle imbalanced data and optimize your algorithm for a bias or variance tradeoffapply supervised and unsupervised algorithms to overcome various machine learning challengesemploy best practices for tuning your algorithm s hyper parametersdiscover how to use neural networks for classification and regressionbuild evaluate and deploy your machine learning solutions to productionwho this book is for this book is for data scientists machine learning practitioners and anyone who wants to learn how machine learning algorithms work and to build different machine learning models using the python ecosystem the book will help you take your knowledge of machine learning to the next level by grasping its ins and outs and tailoring it to your needs working knowledge of python and a basic understanding of underlying mathematical and statistical concepts is required

A Python Data Analyst's Toolkit 2020-07-24 refine your programming techniques and approaches to become a more productive and creative python programmer this book explores the concepts and features that will improve not only your code but also your understanding of the python community with insights and details about the python philosophy pro python 3 third edition gives you the tools to write clean innovative code it starts with a review of some core python principles which are illustrated by various concepts and examples later in the book the first half of the book explores aspects of functions classes protocols and strings describing techniques which may not be common knowledge but which together form a solid foundation later chapters cover documentation testing and app distribution along the way you ll develop a complex python framework that incorporates ideas learned throughout the book updates in this edition include the role of iterators in python 3 web scraping with scrapy and beautifulsoup using requests to call web pages without strings new tools for

distribution and installation and much more by the end of the book you ll be ready to deploy uncommon features that can take your skills to the next level in python what you ll learn implement programs with various types of python functions work with classes and object oriented programminguse strings from the standard library and third party librariesharvest web site data with pythonautomate unit testing by writing a test suitereview imaging random number generation and numpy scientific extensionsunderstand the zen of python documentation to help you decide the best way to distribute your code who this book is for intermediate programmers familiar with python who are looking to move to an advanced level you should have written at least a simple python application and be comfortable with a basic object oriented approach using the interactive interpreter and writing control structures

Hands-On Machine Learning with scikit-learn and Scientific Python Toolkits 2019-03-18 google and youtube use python because it s highly adaptable easy to maintain and allows for rapid development if you want to write high quality efficient code that s easily integrated with other languages and tools this hands on book will help you be productive with python quickly whether you re new to programming or just new to python it s an easy to follow self paced tutorial based on author and python expert mark lutz s popular training course each chapter contains a stand alone lesson on a key component of the language and includes a unique test your knowledge section with practical exercises and quizzes so you can practice new skills and test your understanding as you go you ll find lots of annotated examples and illustrations to help you get started with python 3 0 learn about python s major built in object types such as numbers lists and dictionaries create and process objects using python statements and learn python s general syntax model structure and reuse code using functions python s basic procedural tool learn about python modules packages of statements functions and other tools organized into larger components discover python s object oriented programming tool for structuring code learn about the exception handling model and development tools for writing larger programs explore advanced python tools including decorators descriptors metaclasses and unicode processing

Pro Python 3 2009-10-06 transform your evolving user requirements into feature rich tkinter applications key featuresextensively revised with new content on restful networking classes in tkinter and the notebook widgettake advantage of tkinter s lightweight portable and easy to use featuresbuild better organized code and learn to manage an evolving codebasebook description tkinter is widely used to build guis in python due to its simplicity in this book you ll discover tkinter s strengths and overcome its challenges as you learn to develop fully featured gui applications python gui programming with tkinter second edition will not only provide you with a working knowledge of the tkinter gui library but also a valuable set of skills that will enable you to plan implement and maintain larger applications you ll build a full blown data entry application from scratch learning how to grow and improve your code in response to continually changing user and business needs you ll develop a practical understanding of tools and techniques used to manage this evolving codebase and go beyond the default tkinter widget capabilities you ll implement version control and unit testing separation of concerns through the mvc design pattern and object oriented programming to organize your code more cleanly you ll also gain experience with technologies often used in workplace applications such as sql databases network services and data visualization libraries finally you ll package your application for wider distribution and tackle the challenge of maintaining cross platform compatibility what you will learnproduce well organized functional and responsive gui applicationsextend the functionality of existing widgets using classes and oopplan wisely for the expansion of your app using mvc and version controlmake sure your app works as intended through widget validation and unit testinguse tools and processes to

analyze and respond to user requestsbecome familiar with technologies used in workplace applications including sql http matplotlib threading and csvuse postgresql authentication to ensure data security for your applicationwho this book is for this book is for programmers who understand the syntax of python but do not yet have the skills techniques and knowledge to design and implement a complete software application a fair grasp of basic python syntax is required

Learning Python 2021-10-28 find out how to create visually stunning and feature rich applications by empowering python s built in tkinter gui toolkit key features explore tkinter s powerful features to easily design and customize your gui application learn the basics of 2d and 3d animation in gui applications learn to integrate stunning data visualizations using tkinter canvas and matplotlib book description tkinter is a lightweight portable and easy to use graphical toolkit available in the python standard library widely used to build python guis due to its simplicity and availability this book teaches you to design and build graphical user interfaces that are functional appealing and user friendly using the powerful combination of python and tkinter after being introduced to tkinter you will be guided step by step through the application development process over the course of the book your application will evolve from a simple data entry form to a complex data management and visualization tool while maintaining a clean and robust design in addition to building the gui you ll learn how to connect to external databases and network resources test your code to avoid errors and maximize performance using asynchronous programming you ll make the most of tkinter s cross platform availability by learning how to maintain compatibility mimic platform native look and feel and build executables for deployment across popular computing platforms by the end of this book you will have the skills and confidence to design and build powerful high end gui applications to solve real world problems what you will learn implement the tools provided by tkinter to design beautiful guis discover cross platform development through minor customizations in your existing application visualize graphs in real time as data comes in using tkinter s animation capabilities use postgresql authentication to ensure data security for your application write unit tests to avoid regressions when updating code who this book is for this book will appeal to developers and programmers who would like to build gui based applications knowledge of python is a prerequisite

Python GUI Programming with Tkinter 2018-05-15 because they are often large and complex gui programming tool kits can be hard to use wxpython is a combination of the python programming language and the wxwidgets toolkit which allows programmers to create programs with a robust highly functional graphical user interface simply and easily wxpython combines the power of an exceptionally complete user interface toolkit with an exceptionally flexible programming language the result is a toolkit that is unique in the ease with which complex applications can be built and maintained wxpython in action is a complete guide to the wxpython toolkit containing a tutorial for getting started a guide to best practices and a reference to wxpython s extensive widget set after an easy introduction to wxpython concepts and programming practices the book takes an in depth tour of when and how to use the bountiful collection of widgets offered by wxpython all features are illustrated with useful code examples and reference tables are included for handy lookup of an object s properties methods and events the book enables developers to learn wxpython quickly and remains a valuable resource for futurework

Python GUI Programming with Tkinter 2006-03-01 portable powerful and a breeze to use python is the popular open source object oriented programming language used for both standalone programs and scripting applications it is now being used by an increasing number of major organizations including nasa and google updated for python 2 4 the python cookbook 2nd edition offers a wealth of useful code for all python programmers

not just advanced practitioners like its predecessor the new edition provides solutions to problems that python programmers face everyday it now includes over 200 recipes that range from simple tasks such as working with dictionaries and list comprehensions to complex tasks such as monitoring a network and building a templating system this revised version also includes new chapters on topics such as time money and metaprogramming here s a list of additional topics covered manipulating text searching and sorting working with files and the filesystem object oriented programming dealing with threads and processes system administration interacting with databases creating user interfaces network and web programming processing xml distributed programming debugging and testing another advantage of the python cookbook 2nd edition is its trio of authors three well known python programming experts who are highly visible on email lists and in newsgroups and speak often at python conferences with scores of practical examples and pertinent background information the python cookbook 2nd edition is the one source you need if you re looking to build efficient flexible scalable and well integrated systems

Wxpython in Action 2005-03-18 wxpython is a blend of wxwidgets and python programming library this introductory book provides the basics of gui programming and helps you create desktop gui applications this book is designed for software programmers who are keen on learning how to develop gui applications for the desktop

Python Cookbook 2018-02-23 an introduction to the python programming language and its most popular tools for scientists engineers students and anyone who wants to use python for research simulations and collaboration python tools for scientists will introduce you to python tools you can use in your scientific research including anaconda spyder jupyter notebooks jupyterlab and numerous python libraries you ll learn to use python for tasks such as creating visualizations representing geospatial information simulating natural events and manipulating numerical data once you ve built an optimal programming environment with anaconda you ll learn how to organize your projects and use interpreters text editors notebooks and development environments to work with your code following the book s fast paced python primer you ll tour a range of scientific tools and libraries like scikit learn and seaborn that you can use to manipulate and visualize your data or analyze it with machine learning algorithms you ll also learn how to create isolated projects in virtual environments build interactive notebooks test code in the qt console and use spyder s interactive development features use python s built in data types write custom functions and classes and document your code represent data with the essential numpy matplotlib and pandas libraries use python plotting libraries like plotly holoviews and datashader to handle large datasets and create 3d visualizations regardless of your scientific field python tools for scientists will show you how to choose the best tools to meet your research and computational analysis needs

WxPython 2023-01-17 learn to effectively manage data and execute data science projects from start to finish using python key featuresunderstand and utilize data science tools in python such as specialized machine learning algorithms and statistical modelingbuild a strong data science foundation with the best data science tools available in pythonadd value to yourself your organization and society by extracting actionable insights from raw databook description practical data science with python teaches you core data science concepts with real world and realistic examples and strengthens your grip on the basic as well as advanced principles of data preparation and storage statistics probability theory machine learning and python programming helping you build a solid foundation to gain proficiency in data science the book starts with an overview of basic python skills and then introduces foundational data science techniques followed by a thorough explanation of the python code needed to execute the techniques you ll understand the code by working through the examples the code has been broken

down into small chunks a few lines or a function at a time to enable thorough discussion as you progress you will learn how to perform data analysis while exploring the functionalities of key data science python packages including pandas scipy and scikit learn finally the book covers ethics and privacy concerns in data science and suggests resources for improving data science skills as well as ways to stay up to date on new data science developments by the end of the book you should be able to comfortably use python for basic data science projects and should have the skills to execute the data science process on any data source what you will learnuse python data science packages effectivelyclean and prepare data for data science work including feature engineering and feature selectiondata modeling including classic statistical models such as t tests and essential machine learning algorithms such as random forests and boosted modelsevaluate model performancecompare and understand different machine learning methodsinteract with excel spreadsheets through pythoncreate automated data science reports through pythonget to grips with text analytics techniqueswho this book is for the book is intended for beginners including students starting or about to start a data science analytics or related program e g bachelor s master s bootcamp online courses recent college graduates who want to learn new skills to set them apart in the job market professionals who want to learn hands on data science techniques in python and those who want to shift their career to data science the book requires basic familiarity with python a getting started with python section has been included to get complete novices up to speed

Python Tools for Scientists 2021-09-30 this book is intended for python programmers who want to do more than just see their data experience with gui toolkits is not required so this book can be an excellent complement to other gui programming resources

Practical Data Science with Python 2015-03-24 get hands on training on any web crawling scraping tool and uses of web scraping in the real time industry Ê key featuresÊÊ includes numerous use cases on the use of web scraping for industrial applications learn how to automate web scraping tasks explore ready made syntaxes of python scripts to run web scraping descriptionÊ a python guide for scraping is a book that will give information about the importance of web scraping using python it includes real time examples of web scraping it implies the automation use cases of web scraping as well it gives information about the different tools and libraries of web scraping so that readers get a wide idea about the features and existence of web scraping in this book we started with the basics of python and its syntactical information we briefed about the use cases and features of python we have explained the importance of python in automation systems furthermore we have added information about real time industrial examples we have concentrated and deep dived into pythonÕs importance in web scraping explained the different tools and their usages we have explained the real time industrial domain wise use cases for web scraping what you will learn explore the python syntax and key features of using python for web scraping usage of python in the web scraping tasks and how to automate scraping how to use different libraries and modules of python who this book is forÊÊ this book is basically for data engineers and data programmers who have a basic knowledge of python and for theÊ readers who want to learn about web scraping projects for industries table of contents 1 python basics 2 use cases of python 3 automation using python 4 industrial automation python 5 scraping 6 scraping and necessity 7 python scraping and different tools 8 automation in scraping 9 use cases scraping 10 industrial benefits of scraping

Interactive Applications Using Matplotlib 2021-05-18 advances in water resources modeling are improving the information that can be supplied to support decisions that affect the safety and sustainability of society but these advances result in models being more computationally demanding to facilitate the use of cost effective computing resources to meet the increased demand through high throughput computing htc and cloud

computing in modeling workflows and web applications i developed a comprehensive python toolkit that provides the following features 1 programmatic access to diverse dynamically scalable computing resources 2 a batch scheduling system to queue and dispatch the jobs to the computing resources 3 data management for job inputs and outputs and 4 the ability for jobs to be dynamically created submitted and monitored from the scripting environment to compose this comprehensive computing toolkit i created two python libraries tethyscluster and condorpy that leverage two existing software tools starcluster and htcondor i further facilitated access to htc in web applications by using these libraries to create powerful and flexible computing tools for tethys platform a development and hosting platform for web based water resources applications i tested this toolkit while collaborating with other researchers to perform several modeling applications that required scalable computing these applications included a parameter sweep with 57 600 realizations of a distributed hydrologic model a set of web applications for retrieving and formatting data a web application for evaluating the hydrologic impact of land use change and an operational national scale high resolution ensemble streamflow forecasting tool in each of these applications the toolkit was successful in automating the process of running the large scale modeling computations in an htc environment

A Python Guide for Web Scraping 2016 third edition thoroughly revised and expanded over 20 new material updated for python 3 9 quickly learn the right way to build attractive and modern graphical user interfaces with python and tkinter you know some python you want to create a user interface for your application you don t want to waste time messing around with things you don t need enter tkinter it s built right into python everything you need is included in the standard python distributions no extra downloads your python and tkinter scripts will work on windows mac and linux tkinter has a simple clean pythonic api and takes care of much of the housekeeping needed in gui programming you can focus on what s unique in your application one huge problem tkinter has been around for a very long time there s a lot of documentation much of it created years ago nearly everything you d find in that documentation still works today but it s all wrong tkinter has a reputation for ugly and outdated user interfaces that don t fit in with modern systems and if you follow the old documentation that s exactly what you ll get because tkinter has taken a quantum leap forward since all that documentation was written there are new and better ways to build your user interface your program needs to be written differently to take advantage of that modern tkinter shows you the right way to do it you ll learn all the modern best practices you ll build your user interface the right way the first time without having to learn anything extra or irrelevant it starts at the beginning shows you what you need to know and covers all the essential elements of building your modern user interface this includes all the standard gui widgets attractively laying out your user interface managing menus windows and standard dialogs organizing more complex user interfaces tkinter s powerhouse widgets canvas and text customizing the look of your user interface making it all work on mac windows and linux you may have been using older documentation or are trying to update a tkinter program written years ago if so you ll find warnings of what to avoid using and how to replace it with a modern solution there s even a full case study of modernizing the user interface of a seriously out of date tkinter application you may be familiar with who this book is for this book is for everyday python programmers looking to quickly create desktop user interfaces you may be new to tkinter or want to bring your knowledge up to date you don t need to be an expert on oop mvc architecture multithreading or any other advanced topics in fact you re not going to see any of those things in this book this book uses python 3 9 but everything you learn will apply with small tweaks to any python 3 x version it won t help you if you re using python 2 x let veteran software developer mark roseman show you the right way to build user

interfaces with python and tkinter he s been using and tk the technology behind tkinter since its early days and has shipped dozens of open source tools and commercial applications based on it he s also the author of the multi lingual tkdocs website the de facto reference for building modern tk user interfaces this book brings together python specific information from that site and supports its further development

A Comprehensive Python Toolkit for Harnessing Cloud-based High-throughput Computing to Support Hydrologic Modeling Workflows 2020-10-08 totaling 900 pages and covering all of the topics important to new and intermediate users beginning python is intended to be the most comprehensive book on the python ever written the 15 sample projects in beginning python are attractive to novice programmers interested in learning by creating applications of timely interest such as a p2p file sharing application based bulletin board and an arcade game similar to the classic space invaders the author magnus lie hetland phd is author of apress well received 2002 title practical python isbn 1 59059 006 6 he s also author of the popular online guide instant python hacking hetland org from which both practical python and beginning python are based

Modern Tkinter for Busy Python Developers 2006-11-07 leverage the power of the visual studio ide to develop better and more efficient python projects overview learn how you can take advantage of ide for debugging and testing python applications enhance your efficiency in django development with visual studio intellisense venture into the depths of python programming concepts presented in a detailed and clear manner in detail python tools for visual studio is a free and open source plugin for visual studio 2010 it enables developers to use all the major productivity features of visual studio to build python code using either cpython or ironpython and includes new features such as high performance computing clusters to scale your code the integrated code navigation and intellisense in ptvs empowers users to speed up the coding process this book provides a detailed insight into python tools in visual studio to help python developers implement a more productive and efficient workflow starting with the installation and configuration of ptvs you will be familiarized with the various tools and panels available throughout the book you will learn how to speed up coding sessions with handy tips on refactoring and debugging moving on towards intellisense and the project setup you will also learn about how ptvs does project handling and how you can use python environments for your project you then round off things by delving into django development and its library management in visual studio to develop advanced web applications what you will learn from this book gain valuable insights on how to use intellisense with python discover how to navigate code and objects with relative ease in repl and code panel tools configure a set up for django development and library management familiarize yourself with hosting a django app on azure learn all about project handling and the debugging process with ptvs understand about various project types in ptvs with basic examples approach this is a hands on guide that provides exemplary coverage of all the features and concepts related to ptvs who this book is written for the book is intended for developers who are aiming to enhance their productivity in python projects with automation tools that visual studio provides for the net community some basic knowledge of python programming is essential

Beginning Python 2015-05-18 leverage the power of python and its de facto gui framework to build highly interactive interfaces key features the fundamentals of python and gui programming with tkinter create multiple cross platform projects by integrating a host of third party libraries and tools build beautiful and highly interactive user interfaces that target multiple devices book description tkinter is a modular cross platform application development toolkit for python when developing gui rich applications the most important choices are which programming language s and which gui framework to use python and tkinter prove to be a great combination this book will get you familiar with tkinter by having you create fun and interactive projects these

projects have varying degrees of complexity we ll start with a simple project where you ll learn the fundamentals of gui programming and the basics of working with a tkinter application after getting the basics right we ll move on to creating a project of slightly increased complexity such as a highly customizable python editor in the next project we ll crank up the complexity level to create an instant messaging app toward the end we ll discuss various ways of packaging our applications so that they can be shared and installed on other machines without the user having to learn how to install and run python programs what you will learn create a scrollable frame via thecanvas widget use the pack geometry manager andframe widget to control layout learn to choose a data structurefor a game group tkinter widgets such asbuttons canvases and labels create a highly customizablepython editor design and lay out a chat window who this book is for this book is for beginners to gui programming who haven t used tkinter yet and are eager to start building great looking and user friendly guis prior knowledge of python programming is expected

Python Tools for Visual Studio 2018-04-25 do you want to learn python programming or you just want to improve your skills in either way this book is right for you if you re looking for a way to protect your future you need to have one of the most remunerative and requested skills out there you need to become an expert coder the world is changing at an astonishing rate most of the actual jobs are being quickly replaced by artificial intelligence learning how to code is one of the best ways to prepare yourself for the future in this book hayes using many practical examples will carefully explain all what you need to know about python such as all the basics of python programming language how to approach the world of programming variables stings tuples lists how to master functions modules and loops all the benefits of python and a step by step guide to teach you how to write your own programs whether you re completely new to programming and are looking for the perfect language to get started or you are looking for a new language to expand your programming skill this guide will teach you the techniques used in the real world to build real software and applications python is a powerful tool for the future object oriented and the preferred code for machine learning therefore if you are interested in entering this exciting new world scroll up add to cart and buy the book now with the paperback version of this book you also get the kindle book version for free

<u>Tkinter GUI Programming by Example</u> 2019-12-02 leverage the simplicity of python and available libraries to build web security testing tools for your application key features understand the web application penetration testing methodology and toolkit using python write a web crawler spider with the scrapy library detect and exploit sql injection vulnerabilities by creating a script all by yourself book description penetration testing is the use of tools and code to attack a website or web app in order to assess its vulnerability to external threats while there are an increasing number of sophisticated ready made tools to scan systems for vulnerabilities the use of python allows you to write system specific scripts or alter and extend existing testing tools to find exploit and record as many security weaknesses as possible learning python penetration testing will walk you through the web application penetration testing methodology showing you how to write your own tools with python for each activity throughout the process the book begins by emphasizing the importance of knowing how to write your own tools with python for web application penetration testing you will then learn to interact with a web application using python understand the anatomy of an http request url headers and message body and later create a script to perform a request and interpret the response and its headers as you make your way through the book you will write a web crawler using python and the scrappy library the book will also help you to develop a tool to perform brute force attacks in different parts of the web application you will then discover more on detecting and exploiting

sql injection vulnerabilities by the end of this book you will have successfully created an http proxy based on the mitmproxy tool what you will learn interact with a web application using the python and requests libraries create a basic web application crawler and make it recursive develop a brute force tool to discover and enumerate resources such as files and directories explore different authentication methods commonly used in web applications enumerate table names from a database using sql injection understand the web application penetration testing methodology and toolkit who this book is for learning python penetration testing is for web developers who want to step into the world of web application security testing basic knowledge of python is necessary

Python Programming 2018-06-27 are you excited about artificial intelligence and want to get started are you excited about machine learning and want to learn how to implement in python the book below is the answer given the large amounts of data we use everyday whether it is in the web supermarkets social media etc analysis of data has become integral to our daily life the ability to do so effectively can propel your career or business to great heights machine learning is the most effective data analysis tool while it is a complex topic it can be broken down into simpler steps as show in this book we are using python which is a great programming language for beginners python is a great language that is commonly used with machine learning python is used extensively in mathematics gaming and graphic design it is fast to develop and prototype it is web capable meaning that we can use python to gather web data it is adaptable and has great community of users here s what s included in this book what is machine learning why use python regression analysis using python with an exampleclustering analysis using python with an exampleimplementing an artificial neural networkbackpropagation90 day plan to learn and implement machine learningconclusion

Learning Python Web Penetration Testing 2019-11-16 are you looking for a beginners guide do you want to learn how to use python for beginners in a simple way do you want to enter into the new world of python for beginners in an efficient and effective way this book will teach you the basics as well as the advanced concepts of computers and programming the gaming industry is growing rapidly and python offers a lot of libraries to create games many tech giants rely on python to deliver world class applications in this book you will learn python setup anaconda winpython data science packeges jupyter data munging with pandas the process importing datasets data preprocessing the data science pipeline principal component analysis supervised learning algorithms analyzing big data neural networks structures classification and regression trees the overfitting problem new features naïve bayes classifier linear regression logistic regression support vector machine applications in the real world pruning data selection this book is not just a startup guide this book will prove beneficial for years to come the book has the latest codes and techniques so you can equip your skills according to the current market challenges after all the purpose is to land a nicely paid job in a globally recognized firm this book will help you reach that goal most people can learn how to code but not just anyone can code smartly this book is going to help you to think out of the box and take on problems with a completely different perspective the tricks mentioned will make you invaluable to any software development firm even if you don t have any skills this book help you step by step to achieve your goal in a few days you will be able to learn it scroll up and buy now

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for tackling day to day issues manipulating transforming and cleaning data visualizing different types of data and using data to build statistical or machine learning models quite simply this is the must have reference for scientific computing in python with this handbook you ll learn how to use ipython and jupyter provide computational environments for data scientists using python numpy includes the ndarray for efficient storage and manipulation of dense data arrays in python pandas features the dataframe for efficient storage and manipulation of labeled columnar data in python matplotlib includes capabilities for a flexible range of data visualizations in python scikit learn for efficient and clean python implementations of the most important and established machine learning algorithms

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Programming Python 2023-01-17 a demonstration of python s basic technologies showcases the programming language s possiblities as a windows development and administration tool

<u>Python Tools for Scientists</u> 2000 demonstrates the programming language s strength as a development tool covering syntax data types built ins the python standard module library and real world examples

Python Programming On Win32 2006-07-14 this is the book to reach for when you re coding on the fly and need an answer now it s an easy to use reference to the core language with descriptions of commonly used modules and toolkits and a guide to recent changes new features and upgraded built ins all updated to cover python 3 x as well as version 2 6 you ll also quickly find exactly what you need with the handy index written by mark lutz widely recognized as the world s leading python trainer python pocket reference fourth edition is the perfect companion to o reilly s classic python tutorials also written by mark learning python and programming python built in object types including numbers lists dictionaries and more statements and syntax for creating and processing objects functions and modules for structuring and reusing code python s object oriented programming tools the exception handling model built in functions exceptions and attributes special operator overloading methods widely used standard library modules and extensions command line options and development tools python idioms and hints

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language python level 1 programming language python level 2

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Python for Everyone

Hands-On Python Natural Language Processing