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Das Python-Tutorial — Das Python3.2-Tutorial auf Deutsch
To move to Python 3, or to support Python 2 and Python 3 simultaneously, you should ensure that your Python 2 code is completely Python 2.7 compatible. Many developers have already been working exclusively with Python 2.7 code, but it is important to confirm that anything that

is only supported by earlier versions is working properly with Python 2.7 and is consistent with Python 2.7 style.

How To Port Python 2 Code to Python 3 | DigitalOcean
The Python Tutorial¶ Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms. The Python ...

The Python Tutorial — Python 3.9.0 documentation
Python 3 Python 2; Release Date: 2008 : 2000 : Function print: print ("hello") print "hello" Division of Integers : Whenever two integers are divided, you get a float value : When two integers are divided, you always provide integer value. Unicode: In Python 3, default storing of strings is Unicode. To store Unicode string value, you require to define them with "u". Syntax : The syntax is ...

Python 2 vs Python 3: Key Differences - Guru99
Eine der besten Einführungen in Python ist immer noch das offizielle Python-Tutorial, jetzt auch auf deutsch verfügbar (für Python 3.x) Python 2 . Martin von Löwis, Nils Fischbeck ; 382731691X, Addison-Wesley-Longman (November 2000) The second edition of Das Python-Buch, this German book covers Python 2.0. It emphasizes language concepts, but also covers GTk+/GNOME, CORBA, and XML ...

GermanPythonBooks - Python Wiki
In 2000, Python 2.0 was released. Python 2.7.11 is the latest edition of Python 2. Meanwhile, Python 3.0 was released in 2008. Python 3 is not backward compatible with Python 2. The emphasis in Python 3 had been on the removal of duplicate programming constructs and modules so that "There should be one -- and preferably only one -- obvious way ...

Python 3 - Overview - Tutorialspoint
Please refer to this link for our Python 2 tutorial. Why to Learn Python 3? Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages. Python is a MUST for students and working ...

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Python Tutorial - Dataclasses - Neu in Python 3.7 Das Python3.2-Tutorial auf Deutsch, Release 3.2 Release 3.2 Date September 24, 2014 Python ist eine einfach zu lernende, aber mächtige Programmiersprache mit ef?zienten abstrakten Datenstrukturen und einem einfachen, aber effektiven Ansatz zur objektorientierten Programmierung. Durch die elegante Syntax und die The Python Tutorial — Python ...

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Der Python-Interpreter kann auf einfache Weise um neue Funktionen und Datentypen erweitert werden, die in C oder C++ (oder andere Sprachen, die sich von C aus ausführen lassen) implementiert sind. Auch als Erweiterungssprache für anpassbare Applikationen ist Python hervorragend geeignet. Dieses Tutorial stellt die Grundkonzepte und Eigenschaften der Sprache und des Systems Python vor. Zwar ...

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Python 3.2. Note: A newer security-fix release, 3.2.6, is currently available. Its use is recommended. Python 3.2 was released on February 20th, 2011. Python 3.2 is a continuation of the efforts to improve and stabilize the Python 3.x line. Since the final release of Python 2.7, the 2.x line will only receive bugfixes, and new features are developed for 3.x only. Since PEP 3003, the Moratorium ...

Python 3.2 Release | Python.org
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Das Python3 3 Tutorial Auf Deutsch - ulaznice.scardona.hr
Python Tutorial. Python 3 in 1 Hour. By Xah Lee. Date: 2013-02-16. Last updated: 2019-03-21. This is a Python 3 tutorial. This page is a summary of the basics for beginners. Examples on this page are based on Python 3.7. For python 2, see: Python 2 Basics. Python 3 source file must be saved in UTF 8 encoding. Make sure your editor saves it in UTF 8. (usually there's a preference setting.) [see ...

Python 3 in 1 Hour - Xah Lee

Anmerkung hierzu: Bei der neuesten Python Installation muss kein Pfad mehr eingetragen werden, da gibt's bei der Installation einfach einen Haken gaaanz am A...

Python 3 Tutorial #1 - Einleitung und Installation - YouTube
Download the latest Python 3 and Python 2 source. Read more. Alternative Implementations. This site hosts the "traditional" implementation of Python (nicknamed CPython). A number of alternative implementations are available as well. Read more. History. Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum in the Netherlands as a successor of a language ...

Download Python | Python.org
Non-Programmer's Tutorial for Python 3/Print version Contents 1 1. Front matter 1.1 Other resources 2 2. Intro 2.1 First things first 2.2 Installing Python 2.2.1 Linux, BSD, and Unix users 2.2.2 Mac users 2.2.3 Windows users 2.2.3.1 Configuring your PATH environment variable 2.3 Interactive Mode 2.4 Creating and Running Programs 2.4.1 Program file names 2.5 Using Python from the command line 2 ...

Non-Programmer's Tutorial for Python 3/Print version
This is a technical course that introduces the Python 3 programming language. This course is suitable for programmers starting new projects in Python 3, or for those porting existing applications from Python 2.

Python 3 Programming | QA Training
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Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz's popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It's an ideal way to begin, whether you're new to programming or a professional developer versed in other languages. Complete with quizzes, exercises, and helpful illustrations, this easy-to-follow, self-paced tutorial gets you started with both Python 2.7 and 3.3— the latest releases in the 3.X and 2.X lines—plus all other releases in common use today. You'll also learn some advanced language features that recently have become more common in Python code. Explore Python's major built-in object types such as numbers, lists, and dictionaries Create and process objects with Python statements, and learn Python's general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements, functions, and other tools into larger components with modules Dive into classes: Python's object-oriented programming tool for structuring code Write large programs with Python's exception-handling model and development tools Learn advanced Python tools, including decorators, descriptors, metaclasses, and Unicode processing

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal 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

The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. 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 this fully revised second edition of the best-selling classic 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. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to: • Search for text in a file or across multiple files • Create, update, move, and rename files and folders • Search the Web and download online content • Update and format data in Excel spreadsheets of any size • Split, merge, watermark, and encrypt PDFs • Send email responses and text notifications • Fill out online forms Step-by-step instructions walk you through each program, 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. 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, 2nd Edition.

Python 3 is the best version of the language yet: It is more powerful, convenient, consistent, and expressive than ever before. Now, leading Python programmer Mark Summerfield demonstrates how to write code that takes full advantage of Python 3's features and idioms. The first book written from a completely "Python 3" viewpoint, Programming in Python 3 brings together all the knowledge you need to write any program, use any standard or third-party Python 3 library, and create new library modules of your own. Summerfield draws on his many years of Python experience to share deep insights into Python 3 development you won't find anywhere else. He begins by illuminating Python's "beautiful heart": the eight key elements of Python you need to write robust, high-performance programs. Building on these core elements,

he introduces new topics designed to strengthen your practical expertise—one concept and hands-on example at a time. This book's coverage includes Developing in Python using procedural, object-oriented, and functional programming paradigms Creating custom packages and modules Writing and reading binary, text, and XML files, including optional compression, random access, and text and XML parsing Leveraging advanced data types, collections, control structures, and functions Spreading program workloads across multiple processes and threads Programming SQL databases and key-value DBM files Utilizing Python's regular expression mini-language and module Building usable, efficient, GUI-based applications Advanced programming techniques, including generators, function and class decorators, context managers, descriptors, abstract base classes, metaclasses, and more Programming in Python 3 serves as both tutorial and language reference, and it is accompanied by extensive downloadable example code—all of it tested with the final version of Python 3 on Windows, Linux, and Mac OS X.

Make the Leap From Beginner to Intermediate in Python... Python Basics: A Practical Introduction to Python 3 Your Complete Python Curriculum-With Exercises, Interactive Quizzes, and Sample Projects What should you learn about Python in the beginning to get a strong foundation? With Python Basics, you'll not only cover the core concepts you really need to know, but you'll also learn them in the most efficient order with the help of practical exercises and interactive quizzes. You'll know enough to be dangerous with Python, fast! Who Should Read This Book If you're new to Python, you'll get a practical, step-by-step roadmap on developing your foundational skills. You'll be introduced to each concept and language feature in a logical order. Every step in this curriculum is explained and illustrated with short, clear code samples. Our goal with this book is to educate, not to impress or intimidate. If you're familiar with some basic programming concepts, you'll get a clear and well-tested introduction to Python. This is a practical introduction to Python that jumps right into the meat and potatoes without sacrificing substance. If you have prior experience with languages like VBA, PowerShell, R, Perl, C, C++, C#, Java, or Swift the numerous exercises within each chapter will fast-track your progress. If you're a seasoned developer, you'll get a Python 3 crash course that brings you up to speed with modern Python programming. Mix and match the chapters that interest you the most and use the interactive quizzes and review exercises to check your learning progress as you go along. If you're a self-starter completely new to coding, you'll get practical and motivating examples. You'll begin by installing Python and setting up a coding environment on your computer from scratch, and then continue from there. We'll get you coding right away so that you become competent and knowledgeable enough to solve real-world problems, fast. Develop a passion for programming by solving interesting problems with Python every day! If you're looking to break into a coding or data-science career, you'll pick up the practical foundations with this book. We won't just dump a boat load of theoretical information on you so you can "sink or swim"-instead you'll learn from hands-on, practical examples one step at a time. Each concept is broken down for you so you'll always know what you can do with it in practical terms. If you're interested in teaching others "how to Python," this will be your guidebook. If you're looking to stoke the coding flame in your coworkers, kids, or relatives-use our material to teach them. All the sequencing has been done for you so you'll always know what to cover next and how to explain it. What Python Developers Say About The Book: "Go forth and learn this amazing language using this great book." - Michael Kennedy, Talk Python "The wording is casual, easy to understand, and makes the information flow well." - Thomas Wong, Pythonista "I floundered for a long time trying to teach myself. I slogged through dozens of incomplete online tutorials. I snoozed through hours of boring screencasts. I gave up on countless crufty books from big-time publishers. And then I found Real Python. The easy-to-follow, step-by-step instructions break the big concepts down into bite-sized chunks

written in plain English. The authors never forget their audience and are consistently thorough and detailed in their explanations. I'm up and running now, but I constantly refer to the material for guidance." - Jared Nielsen, Pythonista

Python3 ist in der beruflichen Bildung sowie in Studium und Praxis eine der beliebtesten Programmiersprachen. Dieses Arbeitsbuch ist als Workbook aufbereitet, wie Sie es aus dem Sprachunterricht kennen. Schrittweise werden die Inhalte erklärt, eine Vielzahl an Beispielen, Zwischenübungen sowie Programmieraufgaben helfen, das neue Wissen anzuwenden und zu festigen. Das Buch ist besonders für den Unterricht in Gymnasien, in Kollegs, in der beruflichen Aus- und Weiterbildung sowie in Programmierkursen geeignet. Für Selbstlerner gibt es zu dem Buch einen Löser mit allen Lösungen zu den Übungsaufgaben.

This textbook on Python 3 explains concepts such as variables and what they represent, how data is held in memory, how a for loop works and what a string is. It also introduces key concepts such as functions, modules and packages as well as object orientation and functional programming. Each section is prefaced with an introductory chapter, before continuing with how these ideas work in Python. Topics such as generators and coroutines are often misunderstood and these are explained in detail, whilst topics such as Referential Transparency, multiple inheritance and exception handling are presented using examples. A Beginners Guide to Python 3 Programming provides all you need to know about Python, with numerous examples provided throughout including several larger worked case studies illustrating the ideas presented in the previous chapters.

This book is a tutorial for the Python 3 programming language designed for someone with no programming experience. Starting from no programming knowledge, the book teaches how to create programs with examples, explanations and exercises.

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.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems

effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples