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Think Python

HOW TO THINK LIKE A COMPUTER SCIENTIST

Allen B. Downey

Think Python Think Python

Allen Downey,Jeffrey Elkner,Chris Meyers

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interested in learning the basics of programming with one of the best web languages Python   Think Complexity Allen Downey,2018-07-11 Complexity science uses computation to explore the physical and social sciences In Think Complexity you ll use graphs cellular automata and agent based models to study topics in physics biology and economics Whether you re an intermediate level Python programmer or a student of computational modeling you ll delve into examples of complex systems through a series of worked examples exercises case studies and easy to understand explanations In this updated second edition you will Work with NumPy arrays and SciPy methods including basic signal processing and Fast Fourier Transform Study abstract models of complex physical systems including power laws fractals and pink noise and Turing machines Get Jupyter notebooks filled with starter code and solutions to help you re implement and extend original experiments in complexity and models of computation like Turmites Turing machines and cellular automata Explore the philosophy of science including the nature of scientific laws theory choice and realism and instrumentalism Ideal as a text for a course on computational modeling in Python Think Complexity also helps self learners gain valuable experience with topics and ideas they might not encounter otherwise   **Monty Python Speaks!** David Morgan,1999 The definitive account of the first thirty years of Monty Python in the words of the Pythons themselves John Cleese Terry Gilliam Eric Idle Terry Jones and Michael Palin   **HT THINK LIKE A COMPUTER SCIEN** Jeffrey Elkner,Allen B. Downey,Chris Meyers,2016-10-04 The goal of this book is to teach you to think like a computer scientist This way of thinking combines some of the best features of mathematics engineering and natural science Like mathematicians computer scientists use formal languages to denote ideas specifically computations Like engineers they design things assembling components into systems and evaluating tradeoffs among alternatives Like scientists they observe the behavior of complex systems form hypotheses and test predictions The single most important skill for a computer scientist is problem solving Problem solving means the ability to formulate problems think creatively about solutions and express a solution clearly and accurately As it turns out the process of learning to program is an excellent opportunity to practice problem solving skills That s why this chapter is called The way of the program On one level you will be learning to program a useful skill by itself On another level you will use programming as a means to an end As we go along that end will become clearer   Think Python Williams Park,2020-03-13 Are you new to software development and looking for your break in the world of machine learning Then you have found just the book you need to understand and master the fundamentals of machine learning and Python programming language to develop a winning machine learning model in just one week With the rise of the modern day smart customer a competitive race has been ignited among the businesses that are starting to rely upon cutting edge technologies such as machine learning and artificial intelligence technology to gain an edge over the competition resulting in high paying and rewarding jobs for people like you who have the in demand machine learning and python programming skillset It is essential to master the basics of these technologies as well as the basic concepts of Python coding Python programming language has rendered itself as the

language of choice for coding beginners and advanced software programmers alike This book is written to help you master the basic concepts of Python coding and how you can utilize your coding skills to analyze a large volume of data and uncover valuable information that can otherwise be easily lost in the volume Python was designed primarily to emphasize readability of the programming code and its syntax enables programmers to convey ideas using fewer lines of code Python programming language increases the speed of operation while allowing for higher efficiency in creating system integrations Some of the highlights of this book include Master the fundamentals of machine learning and various terminologies that are frequently used in this field as well as its significance Detailed overview of Python and its historical development Step by step instructions to install Python on your operating systems have also been included Learn the concept of Python comments variables and data types that serve as a prerequisite to the learning of Python programming Detailed overview of the basic concepts of Python programming focusing on various programming elements such as Booleans Tuples Sets Dictionaries and much more Master the advance Python programming concepts that are relatively more complicated and require a solid understanding of the basic concepts Learn how to use OOPS concepts different loops and conditional statements to generate sophisticated commands Explicit list of all built in Python functions methods and keywords that can be used to easily develop and run advance codes Details on how Python programming is being used in development and testing of software programs machine learning algorithms and Artificial Intelligence technologies to solve real world problems Finally as an added bonus you will learn some Python tips and tricks to take your machine learning programming game to the next level Remember knowledge is power and with the great power you will gather from this book you will be armed to make sound personal and professional technological choices Your understanding of Python and machine learning will improve drastically and you will be poised to develop your very own machine learning model So be a good Samaritan and spread the word to your tech savvy friends and family and help them get access to this power Scroll up and click Buy Now With 1 Click or Buy Now to get started

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