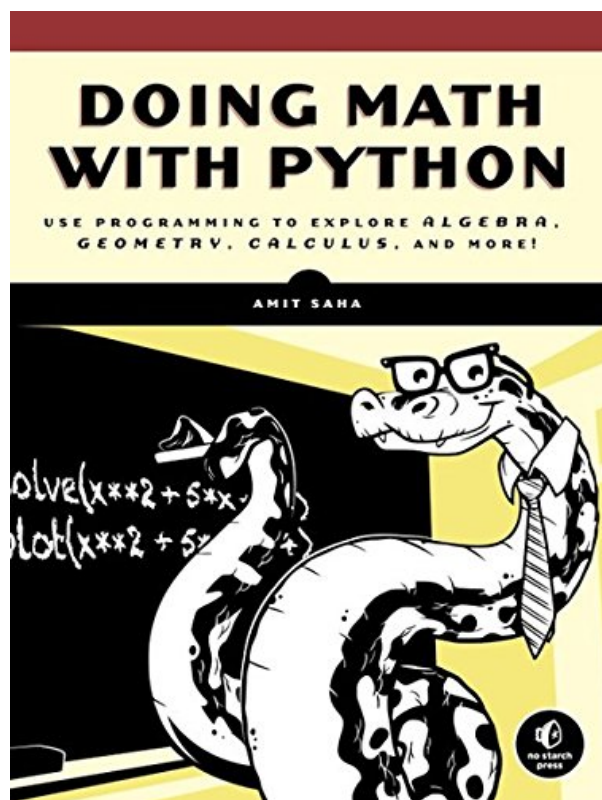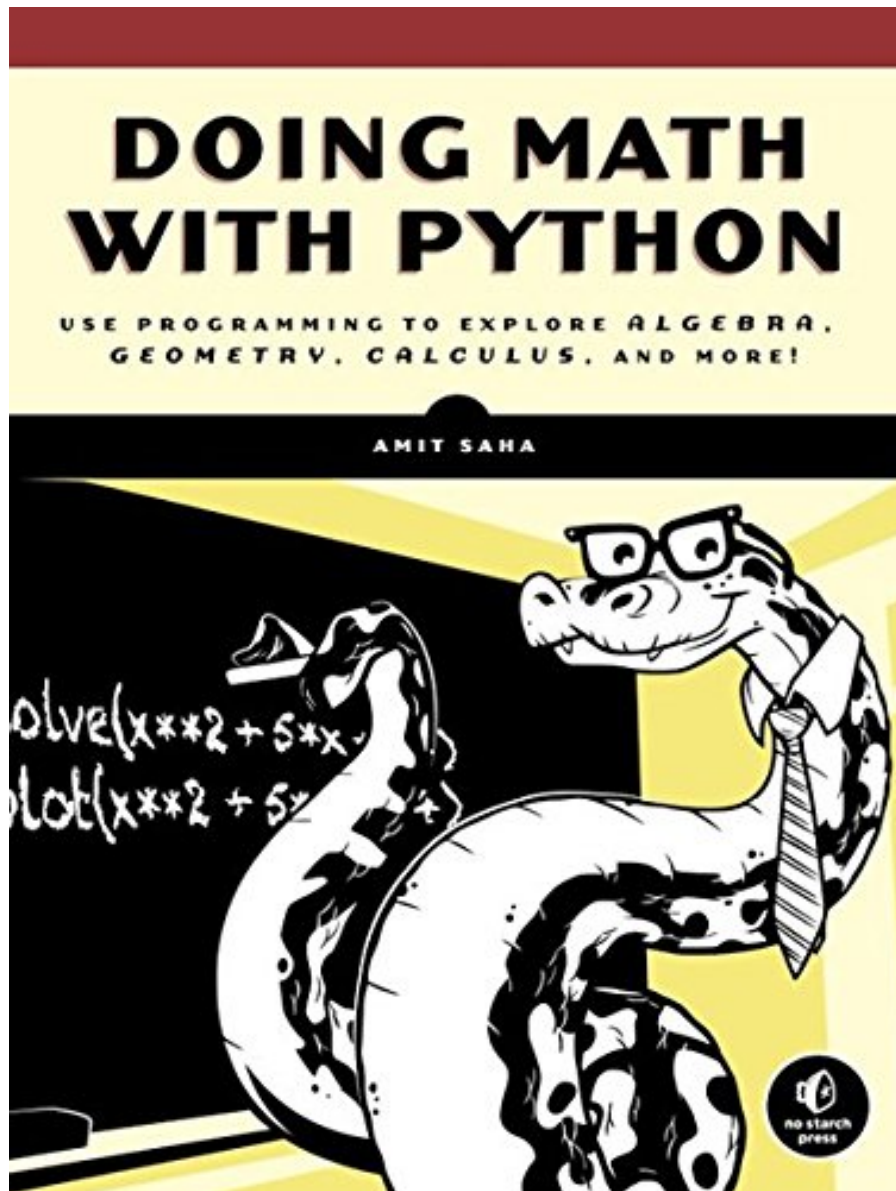# DOING MATH WITH PYTHON: USE PROGRAMMING TO EXPLORE ALGEBRA, STATISTICS, CALCULUS, AND MORE! BY AMIT SAHA

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About the Author

Amit Saha is a software engineer who has worked for Red Hat and Sun Microsystems. He created and maintains Fedora Scientific, a Linux distribution for scientific and educational users. He is also the author of Write Your First Program (Prentice Hall Learning).

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Doing Math with Python shows you how to use Python to delve into high school—level math topics like statistics, geometry, probability, and calculus. You'll start with simple projects, like a factoring program and a quadratic-equation solver, and then create more complex projects once you've gotten the hang of things.

Along the way, you'll discover new ways to explore math and gain valuable programming skills that you'll use throughout your study of math and computer science. Learn how to:

- Describe your data with statistics, and visualize it with line graphs, bar charts, and scatter plots
- Explore set theory and probability with programs for coin flips, dicing, and other games of chance
- Solve algebra problems using Python's symbolic math functions
- Draw geometric shapes and explore fractals like the Barnsley fern, the Sierpinski triangle, and the Mandelbrot set
- Write programs to find derivatives and integrate functions

Creative coding challenges and applied examples help you see how you can put your new math and coding skills into practice. You'll write an inequality solver, plot gravity's effect on how far a bullet will travel, shuffle a deck of cards, estimate the area of a circle by throwing 100,000 "darts" at a board, explore the relationship between the Fibonacci sequence and the golden ratio, and more.

Whether you're interested in math but have yet to dip into programming or you're a teacher looking to bring programming into the classroom, you'll find that Python makes programming easy and practical. Let Python handle the grunt work while you focus on the math.

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About the Author

Amit Saha is a software engineer who has worked for Red Hat and Sun Microsystems. He created and maintains Fedora Scientific, a Linux distribution for scientific and educational users. He is also the author of Write Your First Program (Prentice Hall Learning).

Most helpful customer reviews

Another excellent title from No Starch
By Luis Miguel Soares
Doing Math with Python is a new title from No Starch Press, and again a book from this editor doesn't disappoint, somehow No Starch seems to have the expertise to pick the best writers for their catalogue and I think I am yet to find a title from them that I don't enjoy reading cover to cover. DMWP is not a advanced python book and it doesn't claim to be, it is a book introducing the utility of python to address mathematical problems, and does so extremely well . The book introduces you to tools in python that can be use to address problems in symbolic math, calculus, algebra and related fields (statistics for example). It is full of nicely explained examples and serves as both a python book and Calculus and Algebra refresher. I think the main target for the book would be college students or people looking to refresh their knowledge in maths and wanting to replace their Ti84 calculator with a laptop with python.

Fun and Well Explained Introduction to Programming Math including Calculus, Statistics and Fractals in Python 3
By Ira Laefsky
The author and No Starch have done it again. A book that is educational, fun and useful. High school and early college mathematics is well illustrated including graphing of functions, calculus and probability, statistics and fun topics like fractals and symbolic algebra. This is also the first
book on Python based math and data handling that makes use of Python 3.* rather than 2.7. While most data analysts still use 2.7 and some packages such as Google's new TensorFlow (a machine learning library) are only available in the Python 2.7 fork most mathematical and scientific modules and libraries are now available through Anaconda's Python 3 release and it is the best bet for upcoming students. By the use of Sympy
available in the Anaconda release students are introduced to symbolic integration and function simplification an important topic introduced over 40 years ago in MIT's Macsyma and now available in improved form as a Python module. All important mathematical topics used in the software are
reintroduced in a gentle fashion as well as the Python conventions that might not be covered in an introduction to programming.

This book is highly recommended for the high school or college student and anyone who is looking for a more natural way of programming math and scientific functions.

Excellent Way to Dig into Programming and Math
By N. Whitlock
I received a preview copy of this from No Starch Press but after spending time with it I would gladly have paid full price for it. I teach math and physics in high school and am in charge of an after school MESA program. After talking with my students about what interested them most for the year we decided to learn programming together and I wanted to put in the twist of doing math at the same time.

This is an amazing book. I have enjoyed working through the material with my students. During the first chapter Working With Numbers and going through some of the operations in programming we would diverge into discussions about why a certain operator was important and how it can be used. For example, we spent several minutes talking about modulo because the students didn't think getting just the remainder was important. We then used Python to determine what day of the week it would be in some ridiculous number of days by using modulo 7. It blew their minds and I could see a light go on in their eyes. The

students haven't learned some of the mathematics material in the book but that's great since they get to see it for themselves in action before a typical lecture. I am looking forward to when we get to the geometry and fractals chapter. As a teacher I highly recommend this book as a way to work with someone in learning both math and programming.

As someone that already has experience with math and some programming (very slight experience in the programming) I still recommend this book. I wish I could have encountered this book earlier in my own education as a way to better solidify the math I was learning. The pacing and explanations are great for self-study. When I first received my copy I jumped right in and even though it starts at with treating Python as a glorified calculator it quickly gets interesting and fun. "Doing Math" is a very appropriate part of the title. When most people think of someone "doing math" they are thinking of someone doing calculations; that is, being taught an algorithm and then applying that algorithm to many similar problems. The approach of this book, however, is to look at the algorithms and in the process learn why they work. I love that. Doing math is thinking whereas calculating is not.

I'm working on incorporating some aspects of this into my regular classroom because I and my MESA students have been enjoying it so much.

If you are even considering this as a book to get, you should. And if you aren't considering it I think you should change your mind.

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About the Author

Amit Saha is a software engineer who has worked for Red Hat and Sun Microsystems. He created and maintains Fedora Scientific, a Linux distribution for scientific and educational users. He is also the author of Write Your First Program (Prentice Hall Learning).

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