

Learning Robotics using Python

Second Edition

Design, simulate, program, and prototype an autonomous mobile robot using ROS, OpenCV, PCL, and Python



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By Lentin Joseph

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Daniel O'Reilly



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Learning Robotics Using Python Lentin Joseph, 2015-05-27 If you are an engineer a researcher or a hobbyist and you are interested in robotics and want to build your own robot this book is for you Readers are assumed to be new to robotics but should have experience with Python

Python Robotics Projects Diwakar Vaish, 2018-05-25 Leverage the power of Python to build DIY robotic projects Key Features Design build and stimulate collaborative robots Build high end robotics projects such as a customized personal Jarvis Leverage the power of Python and ROS for DIY robotic projects Book Description Robotics is a fast growing industry Multiple surveys state that investment in the field has increased tenfold in the last 6 years and is set to become a 100 billion sector by 2020 Robots are prevalent throughout all industries and they are all set to be a part of our domestic lives This book starts with the installation and basic steps in configuring a robotic controller You ll then move on to setting up your environment to use Python with the robotic controller You ll dive deep into building simple robotic projects such as a pet feeding robot and more complicated projects such as machine learning enabled home automation system Jarvis vision processing based robots and a self driven robotic vehicle using Python By the end of this book you ll know how to build smart robots using Python What you will learn Get to know the basics of robotics and its functions Walk through interface components with microcontrollers Integrate robotics with the IoT environment Build projects using machine learning Implement path planning and vision processing Interface your robots with Bluetooth Who this book is for If building robots is your dream then this book is made for you Prior knowledge of Python would be an added advantage

Super Easy ROS Python James Hunter, 2025-04-30 Super Easy ROS Python A Beginner Friendly Step by Step Guide to the Robot Operating System Using Only Python Ever wanted to build a real robot but got stuck in the maze of C code and cryptic launch files You re not alone Robotics can seem intimidating but with Python and this book it doesn t have to be Super Easy ROS Python is your fast track introduction to Robot Operating System ROS development using pure Python Whether you re a student hobbyist or professional looking to break into robotics this book walks you through everything from basic ROS concepts to advanced robot control one clear practical step at a time

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go from beginner to pro in no time The guides found inside this bundle are designed explicitly for people with little or no prior knowledge about Python programming Every manual is written in a step by step and easy to digest manner so that you can understand Python without any trouble Here s what this bundle about Python programming and data science can offer you

Basics of programming with Python A comprehensive guide on how to get everything up and running

Essential tools guide Learn how to use the best tools that are available for programming with Python

Programming made easy Quick and easy way to learn how to make amazing and useful programs

Mastering the art of programming Find out how to go from beginner to pro in no time with unique coding methods

Practical techniques and exercises Put your knowledge to test and bring your ideas to life in no time It doesn t matter if you are a beginner or you have never coded before this guide will slowly ease you into the world of Python and data science

While most of the other similar books focus purely on theory and complicated concepts these guides focus on a more practical approach to learning Python and data science

First of all you ll learn basic programming concepts such as variables lists classes and loops

Then you will practice clean code writing and how to test your code safely

After that you ll be able to put your knowledge to the test with some practical projects

Here is what else this bundle will show you

The basics of data types variables and structures

How to properly define the data type of data structure

Suitable types of operations and functions for data structuring

Methods and applications of data analysis

The basics of neural networks and how to create one

Use of algorithm and models in data science

Using data for prediction and deep learning

The best thing about Python is that it s easy to learn and even easier to get up and running

By using tools like Django for example you can quickly bring your ideas and creations to life and start monetizing them in no time

The second best thing about learning how to program in Python is the advantage you ll have when you start learning other programming languages after you master Python learning different programming languages will be a piece of cake

If you want to conquer the Python programming language in no time all you have to do is take these guides in your hands and follow the step by step instructions

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Are you aware of the fact that the world of Innovation is rapidly changing

Are you interested in learning more about Machine Learning

Python Machine Learning and Python Programming

If you want to keep pace with Innovation then keep reading

This guidebook is going to help you go from beginner to a professional in Python coding language in no time

When you are interested in learning more about what machine learning is all about as well as how you can use a part of the coding from Python inside of this process then this guidebook is the tool for you

Some of the topics that we will explore when we go through this guidebook will include

What is machine learning and Why would a programmer want to learn how to use it

Some of the basics of coding with Python and how to read the codes that we will work on

The Reasons that many programmers are flocking to this coding language and eager to learn more

Learning some of the building blocks that will ensure your success with machine learning

How to set up the right environment in Python and

get the libraries set up How K Means clustering is going to be different from KNN How to work with statistics and probability in order to understand more about machine learning What the generators are all about and how to use them to add some more strength to your own codes The difference between supervised unsupervised and reinforcement learning And so much more The Python coding language is one of the best programming languages out there for both beginners and more experienced programmers to learn how to use It has a lot of power is easy to learn how to use and read and even works with other coding languages if that is what your program needs When you are ready to learn more about what machine learning is all about and how you are able to benefit from it in your own coding and programming make sure to check out this guidebook to help you get started Scroll to the top of the page and select the buy now button

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