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This is the code repository for Learning Robotics using Python - Second Edition, published by Packt. Design, simulate, program, and prototype an autonomous mobile robot using ROS, OpenCV, PCL, and Python What is this book about? Robot Operating System (ROS) is one of the most popular robotics software frameworks in research and industry.

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With Python programming language and Visual Components API, you are given a good platform for teaching, automating and post-processing robot programs. Instead of manually teaching every statement to a robot, you can write a script that calculates, records and simulates an entire robot program.

Python Robotics - Programming a Robot with Python | Visual ...

If you want to use machine learning with the robot, you will probably use Scikit, OpenAI-Baselines, or Tensorflow/Keras. If you want to use numerical computation, you may use scipy, pandas, or numpy. Except for OpenAI-Baselines, all of them work with both Python versions.

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Learning Robotics Using Python [Book]

Design, simulate, and program interactive robots About This Book Design, simulate, build, and program an interactive autonomous mobile robot Leverage the power of ROS, Gazebo, and Python to enhance your robotic skills A hands-on guide to creating an autonomous mobile robot with the help of ROS and Python Who This Book Is For This book is for those who are conducting research in mobile robotics and autonomous navigation.

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Learning Robotics Using Python uses ROS Indigo, a stable version of ROS, installed on the latest Ubuntu L.T.S 14.04.02. The code is also compatible with ROS Jade. After a basic introduction, it looks at the mechanical design of robots using open source tools.

Learning robotics using Python | Robohub

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