



Introduction to Robotics

Manipulation and Programming

Unit 1: Introduction

INSTALL PYTHON ROBOTICS (MODELING)

DR. ERIC CHOU

IEEE SENIOR MEMBER



Objectives

- Basic Kinematics: PyBotics
- Advanced Kinematics: Modern Robotics
- Robotics Library: Python Robotics

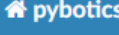


Installation

SECTION 1



Installation of PyBotics


latest
Search docs

CONTENTS

pybotics package

Submodules

Module contents

```
function countSpaces(str) {  
  // What's a message?  
}  
el return str.indexOf(' ');  
bl return str.split(' ').length - 1;  
cl return str.count(' ') - 1;  
el return str.words().length - 1;  
job_offers = quiz()  
TRIPLEBYTE
```

Beat Triplebyte's online coding quiz. Get offers from top companies. Skip resumes & recruiters.

Sponsored · Ads served ethically

[Docs](#) » pybotics package

[Edit on GitHub](#)

pybotics package

Submodules

- [pybotics.errors module](#)
- [pybotics.geometry module](#)
- [pybotics.json_encoder module](#)
- [pybotics.kinematic_chain module](#)
- [pybotics.link module](#)
- [pybotics.optimization module](#)
- [pybotics.predefined_models module](#)
- [pybotics.robot module](#)
- [pybotics.tool module](#)

Module contents


Pybotics modules.


[Previous](#)

[Next](#)




Installation of transforms package



Search projects 

transformations 2020.1.1

```
pip install transformations
```



<https://pypi.org/project/transformations/>



Installation of vPython

vPython

3D Programming for Ordinary Mortals

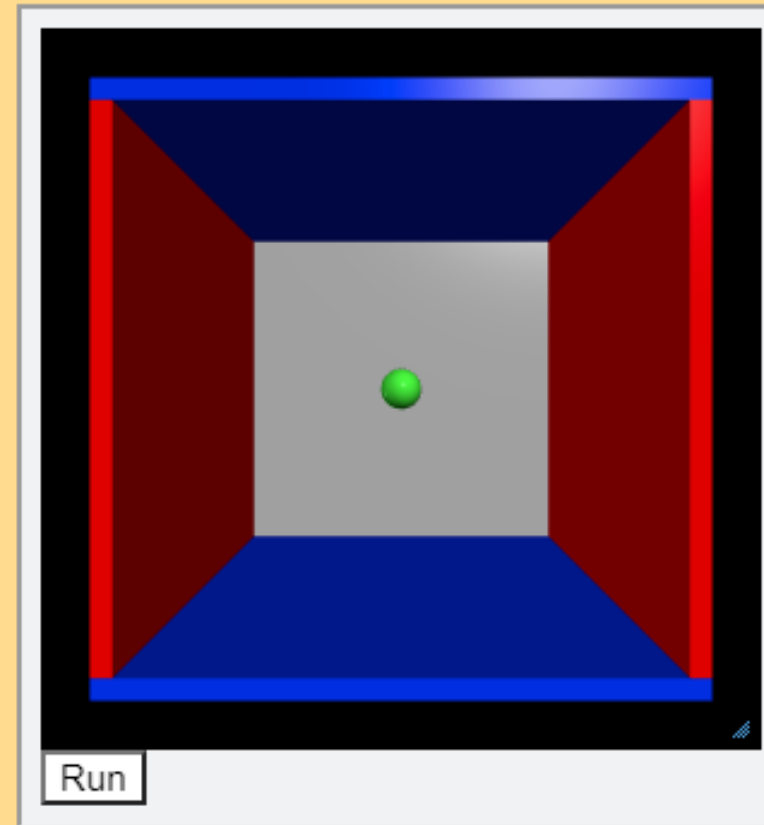
Examples

Documentation

GlowScript vPython User Forum

vPython 7 User Forum

glowscript.org



<https://www.vpython.org/>

Demonstration

SECTION 1