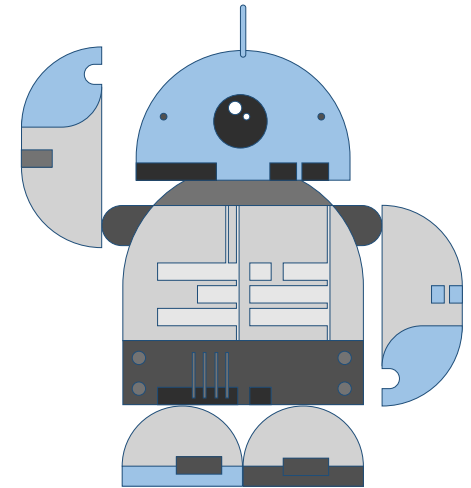




# AI Planning for Robot Systems

Python Resources





## Websites

- [The Python Tutorial](#) – This is the official tutorial. It covers all the basics.
- [Google Python Class](#) - The class includes written materials, lecture videos, and lots of code exercises to practice Python coding.
- [The Python Guru](#) -You will learn everything you need to know about python, each lesson expands on the previous one, so it is recommended to go through topics step by step.
- [W3schools](#) – A comprehensive learning resource for both beginners and advanced python programmers.
- [Real Python](#) – A repository of free and in-depth Python tutorials created by a diverse team of professional Python developers.
- [Learn Python](#) - It has an interactive Python interpreter built into the site that allows you to go through the lessons without having to install Python locally.
- [CheckiO](#) – A gamified approach to learning Python. Questions of varying difficulties come in the form of game missions.



## Books

- [A Byte of Python](#) - An excellent beginner programmer's guide to python. The book can be downloaded form the attached link and is also available to read online through [this link](#).
- [The Python Cheat Sheet](#) – Courtesy of Python Crash Course
- [Automate The Boring Stuff with Python](#)



## Visualisation Tools

- PowerPoint
- Unity



## Libraries

- [Python.org](https://python.org) – Provides a list of some of the most commonly used Python libraries.
- [Gameboard](#) – Provides a GUI for 2D arrays to make it easy to create board-style games.
- [Tkinter](#) – Provides simple way to create interfaces and GUI elements.
- [NumPy](#) – Offers comprehensive mathematical functions.



## Libraries (Machine learning & Deep Learning)

- [Pandas](#) – A library for data manipulation and analysis.
- [Scikit-learn](#) – Simple and efficient tool for predictive data analysis.
- [Keras](#) – A library that is used for artificial neural networks.
- [Tensorflow](#) – A library for machine learning and artificial intelligence.
- [PyTorch](#) – Used for deep learning applications such as computer vision and NLP.
- [Matplotlib](#) – One of the most commonly used plotting libraries.
- [Seaborn](#) – Data visualisation library built on top of matplotlib.
- [Plotly express](#) – Provides functions to visualise a variety of types of data.