

MULTI-ROBOT PATH PLANNING LAB — PREREQUISITES

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1 Prerequisites

1. Attendance of Tutorial 19: Multi-Robot Path Planning
2. Laptop with Python 3 installed (see section 2)
3. Working knowledge of Python

2 Install Python 3

This lab requires a Python 3 installation that includes `numpy` and `matplotlib` packages. Depending on your operating system, you can install Python 3 including those packages as outlined below.

2.1 Linux (Ubuntu)

On a command prompt use:

```
[laptop]$ sudo apt install python3 python3-numpy python3-matplotlib
```

2.2 Windows

Download Anaconda from <https://www.anaconda.com/distribution/#download-section> — We tested Anaconda 2019.03 with Python 3.7. Please note that you will be able to run Python by using `python` rather than `python3` as on Mac OS X and Ubuntu.

2.3 Mac OS X

Download Anaconda (2019.03, Python 3.7) from <https://www.anaconda.com/distribution/#download-section> and follow the installer. You can verify your installation by running `python3 --version` in a Terminal.

3 (Optional) Setup IDE

You can use a plain text editor throughout the lab. If you would like to use an IDE, we recommend PyCharm (<https://www.jetbrains.com/pycharm/>). The free community edition suffices fully, however you can get the professional edition for free as well, see <https://www.jetbrains.com/student/> for details.