Open[ELE00142M] Machine Vision and Human Machine Interaction

UNIVERSITY of York

Lab 4: DMPs with Python

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Aims and Objectives

In this lab session you will implementing dynamics movement primitives (DMPs) algorithm with Python in Google CoLab. You can use either Windows or Linux.

It is expected that you will complete all of these activities in two weeks of labs (Week 9 - Week 10). The P/T/410 and P/T/411 laboratories are open for your use outside of scheduled lab times in case you need extra time to finish. You can also work at home by using Google CoLab on your own computer.

Learning outcomes

- Implementing successfully DMPs with Python
- Showcase the imitated trajectory with different numbers of basis functions

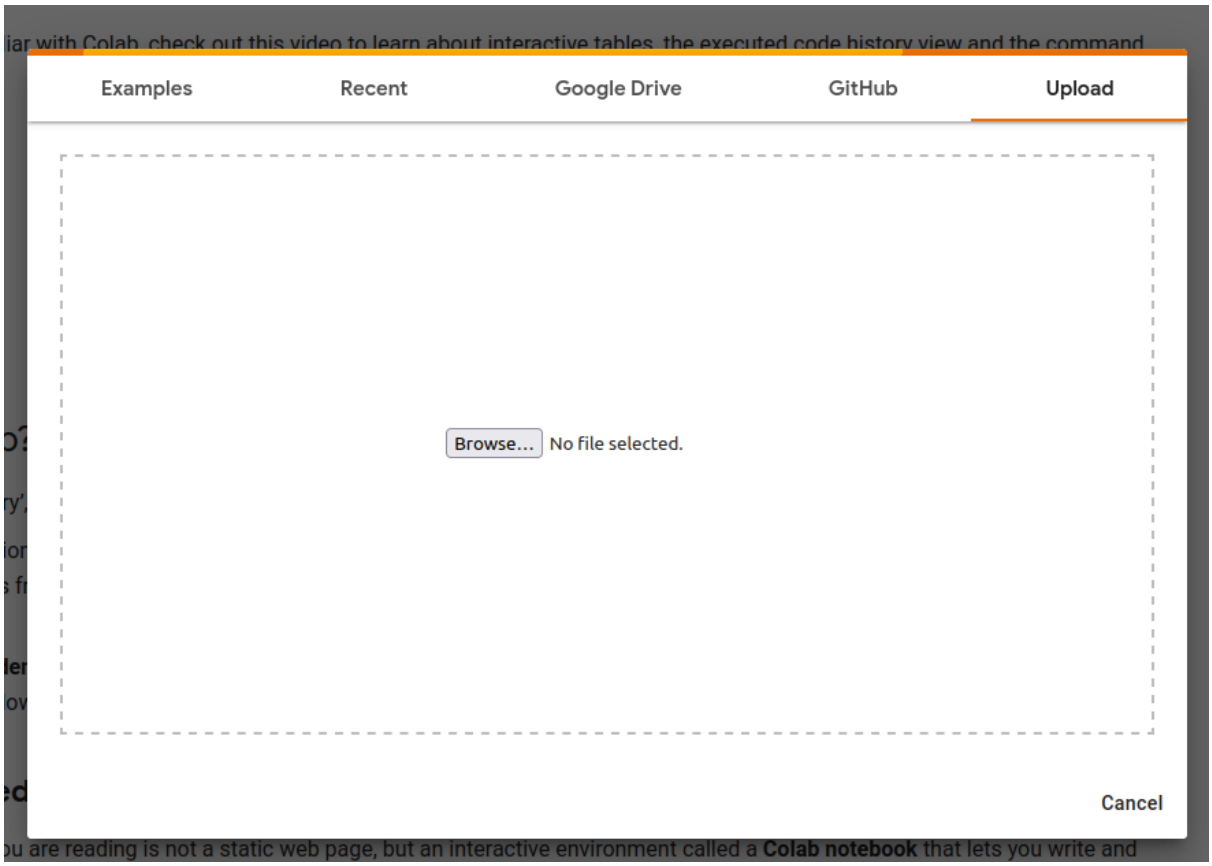
Software required

- Python

Tasks

1. Log on to Ubuntu/Windows with you username and password
2. Open Chrome
3. On the right hand side sign in with you google account (university account should do),

4. Go to https://colab.research.google.com/drive/1Ev6pAAjJamlH4a4qbJl3l9xDBA-d64pN?usp=sharing
5. Download the file and upload it to your own google colab
6. Click on file -> upload notebook and you should see



7. Upload the **dmp_exercise.ipynb** file and you should see the file is opened:

```
%------ Your code here ------------------------------

%-----------------------------------------------------
```

is where you should input your code
There are instructions and also hints on how to proceed