

# Packaging Greengraph

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## Usage of entry point

The module is installed by the command: `pip install pip install git+ssh://git@github.com/cpmck/RSE_Assignment_1.git`

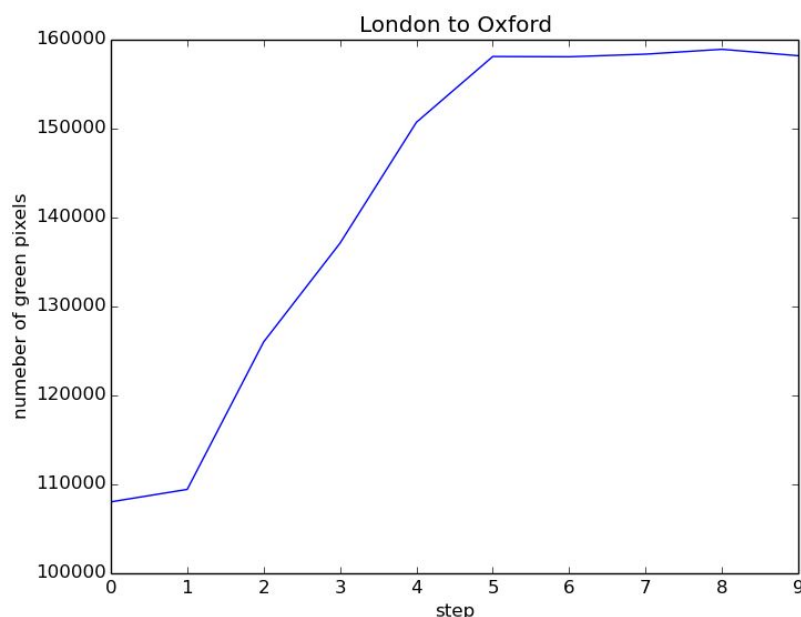
The module is used with the command:

```
graphTheGreen --start_point London --end_point Oxford --steps 10 -- graphTitle graph.png
```

This will save a plot of the number of green pixels on maps between London and Oxford in 10 steps and save it to a file called graph.png

## Results

Here is an example of a results graph.png from the input above.



## Problems Encountered

The main problems I encountered were with the testing procedures. I felt that testing methods were difficult to implement and I spent a disproportionate amount of time on the testing phase.

I encountered a problem while trying to mock. While trying to simulate an input map of a location (London), the testing module was unable to recognise the image as .png format.

## Advantages and Costs

### Costs:

- Preparing work for release is time consuming and potentially expensive if outsourcing.
- A private repository might cost money if hosting online
- Difficulty in choosing licences when releasing code

### Advantages:

- Preparing for release will encourage testing and the creation of more robust code
- Having pip install available makes the code more portable and easier to share
- Package managers aid the development of code by making it easier to update
- Packaging will make code more readily available for collaboration which will help improve and sustain the code

## Steps to build a community of developers

In order to build a community of users for a project the first step would be to package the existing project appropriately (with suitable licences etc.) and make the project easily accessible via hosting on a repository. The project should be easy to install via a package manager and the aims and uses of the project clearly stated. It would be useful to advertise the project to interested parties and encourage collaboration with the aim of creating a community which updates the project regularly.