Quick Guide

1. Set up GraphHopper on Linux (see below)

2. Run MapPrep.sh in Graphhopper's folder

   If permission is denied, run:

   ```
   Chmod +x MapPrep.sh
   ```

3. The result should be a zipped file with all the required map files

4. Place those files in a folder with the country's name in your device's the maps folder (configurable in the NavConfig class).

Standard Graph Processing

1. Set up GraphHopper on Linux (see below)

1. Download the *.map file (map tiles) from:

   http://download.mapsforge.org/maps/

2. Download the matching *.osm.pbf file (graphs) from:

   http://download.geofabrik.de/

3. Place them both in Graphhopper's root folder

   You should clone the git project from:

   https://github.com/graphhopper/graphhopper

4. Rename "*country*.osm.pbf" to "*country*.osm"

5. Run

   ```
   ./graphhopper.sh import country.osm
   ```

6. There should be a new folder in Graphhopper's folder named "*country*-gh".

   This new folder should contain a total of 8 files:

   edges
   geometry
   location_index
   names

nodes
nodes_ch_fastest_car
properties
shortcuts_fastest_car

7. Copy the *country*.map file (which should be in Graphhopeer's root folder) to the *country*-gh folder. The country folder should now contain 9 files.

8. Place those files in a folder with the country's name in your device's the maps folder (configurable in the NavConfig class).

Setting Up GraphHopper on Linux

Used Setup

VirtualBox v.5.2.4

Xubuntu v.16.04

Requirements

Linux

Java

Java version: 1.8.0_171, vendor: Oracle Corporation

JDK

openjdk version "1.8.0_151"

OpenJDK Runtime Environment (build 1.8.0_151-8u151-b12-0ubuntu0.16.04.2-b12)

OpenJDK 64-Bit Server VM (build 25.151-b12, mixed mode)

Maven

Apache Maven 3.3.9

Clone Graphhopper's Git Project

```
git clone git://github.com/graphhopper/graphhopper.git graphhopper
```

Installing Maven on Ubuntu

```
sudo apt-get install maven
```

The command `apt-get` installs the Maven in:

```
/usr/share/maven
```

To verify your maven version run:
```
mvn –version
```

Java Troubleshooting

Display JAVA_HOME variable path with:

```
echo $JAVA_HOME
```

If nothing appears then set it with:

```
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
```