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

1. The result should be a zipped file with all the required map files
2. 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)
2. Download the \*.map file (map tiles) from:

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

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

<http://download.geofabrik.de/>

1. Place them both in Graphhopper’s root folder

You should clone the git project from:

<https://github.com/graphhopper/graphhopper>

1. Rename “*country*.osm.pbf” to “*country*.osm”
2. Run

./graphhopper.sh import *country*.osm

1. 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

1. 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.
2. 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