My Position 3

Share your location, easily.

1. Introduction

My Position 3 determines the current location with address data from the GPS coordinates including height above sea-level (Fig. 1).

For showing country-specific **address info**, it uses the Nominatim Reverse Geocoding service of OpenStreetMap. It works without Google services and thus neither location nor address data is transfered to data collectors by the app.

The application simplifies the task of **sharing your location** data with your contacts by using the available email or messaging apps.

Your location may be shown **online** on **OpenStreetMap** or **offline** with an installed suitable **mapping app** (provided the default map display - Google Maps - has been changed in the app settings *).

Additionally, this app includes a **tool** to help **converting** between WGS84 decimal coordinate format and degree-minutes-seconds coordinate format as well as calculating the distance between 2 coordinates.

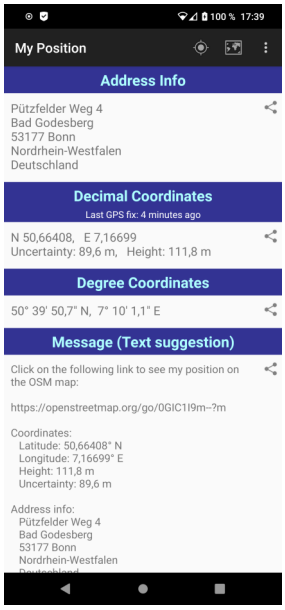

Fig. 1: Main view

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(See https://www.gnu.org/licenses/gpl-3.0)

2. Set up

Before initial use you should look at the **Settings** page (Fig. 2) and set up a **valid email address** for the Nominatim Reverse Geocoding service of OpenStreetMap. This is optional, but required for long-term reliable service and for security reasons to protect against misuse. (For details see http://wiki.openstreetmap.org/wiki/Nominatim#Reverse_Geocoding).

The current **location** can be shown **on a map**. Untagged, it will show the position online on OpenStreetMap in your browser. Tagged, it tries to show the current position on an installed mapping app like Locus, OruxMaps or OSMAnd. However, this requires a change to be made in the system settings, as otherwise the location will be displayed online on Google Maps using the smartphone's default geo-link. *)

You may set the app to **portrait** or **landscape** mode by the corresponding option. A fixed alignment mode avoids unexpected and disturbing toggling of the screen.

As the GPS signal delivers height values of an idealist geoid that might differ much from the commonly used height above sea level, the altitude values are corrected to sea level for each specific location.

The last option allows to set a toast message showing up that informs about the different height values (sea level height, GPS height and local correction value, see at the lower part of Fig. 3).

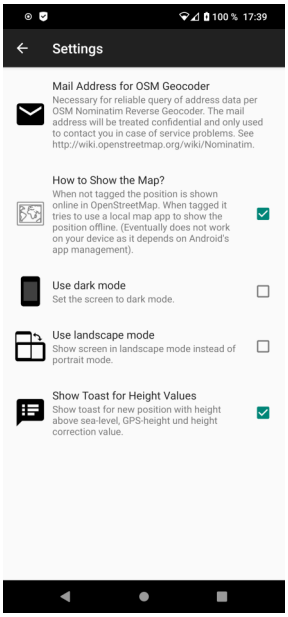

Fig. 2: Settings

*) To change the default from Google Maps to a preferred mapping app, open the settings on your phone, find `Maps` or `Location` and select `Clear defaults`. (Might be different on devices and Android versions).
Head back to My Position and call `Show Map`. Now you'll be asked which application to use. Pick the one you prefer, and tap `This time´ to test it. Next time you may select 'Always' to make sure your preferred app opens by default.

3. Usage

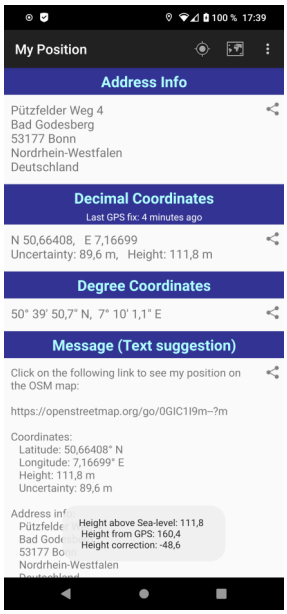

Fig. 3: Starting page with Toast for height info

On the main screen the **action bar** shows three icons representing **Update Position**, **Show Position on Map** and **App Menu** (Fig. 3), whose function is described below.

After starting the app it tries to get the GPS satellites fixes (if not done already by another app). Once the GPS fix has been established, the position can be determined using the **Update Position** button. (After a while, the values become more accurate.)

It shows the coordinates with uncertainty and height above sea level.

Then it tries to get the **address info** of the position by requesting the Nominatim service of OpenStreetMap. If there is no Internet access the Address view area shows: “No Address data!”. The address info is shown partly in a country-specific representation (at, ch, de, fr, it or for the rest of the world in English format).

The coordinates are shown in two formats: WGS84 **decimal** (dd.ddddddd) coordinate format and **degree**-minutes-seconds (dd° mm’ ss.sss”) coordinate format.

The **Message** area shows a prepared editable message that could be sent to someone you want to inform about your location. It contains all the available information and a link that shows the position on OpenStreetMap.

Clicking **Update Position** triggers the GPS receiver to update the position.

Clicking **Show Position on Map** shows the current position either **online** on OpenStreetMap or **offline** by an installed mapping app depending on what you selected in Settings.

From the **App Menu** (Fig. 4) you access the **Settings** view (see 2. Set up and Fig. 2), a coordinates **Conversion** calculator (Fig. 5), the **Help** page and the **About** page (Fig. 6) with version number, short app description, legal and license info as well as the app history.

If you leave MyPosition GPS gets switched off (if not still in use by another app).

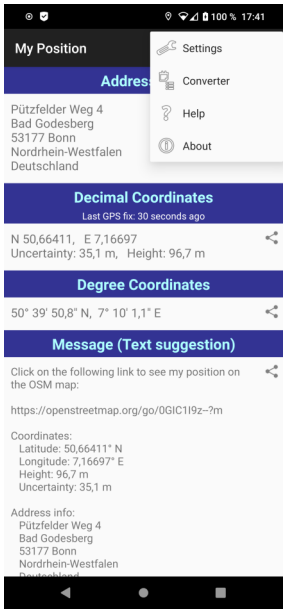

Fig. 4: App Menu

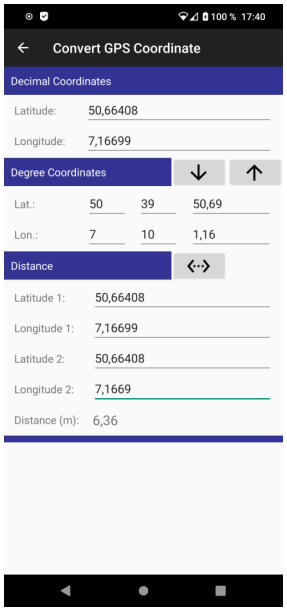

Fig. 5: Converter

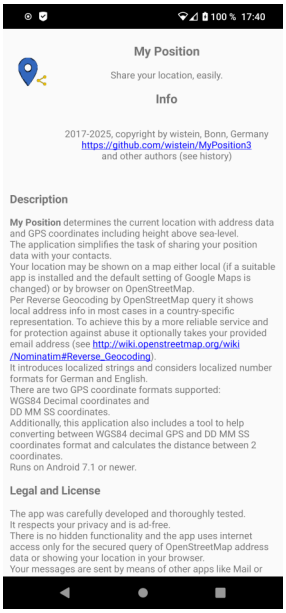

Fig. 6: About page