Graphical GPS User Manual

The Graphical GPS uses a Raspberry Pi, a Adafruit Ultimate GPS Breakout v3, a QMC5883L magnetometer, and a 5000 mAh Li-ion battery.

Due to limitations on the on-board GPS module, you must be outside of a building to get information from the satellites. Cars and other vehicles work fine.

**Power:**

* Turn on the device by pressing and holding the power button on the battery for about 1 second.
* Turn off the device by holding the power button for two seconds (while it’s on)

**Navigation:**

* Your center icon doubles as a compass. You can see it update with your current facing direction after turning.
* Click the pan icon to enter free roam mode. Click the pin icon to reset back to your current position.

**Routing:**

* To create a route to a destination, either double click anywhere on the map or select one of your saved points from the bottom right menu. An itinerary should show up on the bottom right, displaying road directions to that point.
* To save your destination as a preset location, click on the floppy disk icon. Name your location and save, and it should now be available in the bottom right menu.

**Statistics:**

* If you want to see how far you traveled in 12 weeks, and your average time traveled per week, click on the running man icon.

Your saved routes and statistics are stored in a database. To reset this database, click the rewind icon. A modal will pop up for confirmation. Press to reset the database or press no to cancel out of resetting.

**Common Issues/Troubleshooting:**

* Sometimes the app will fail to load and stay on a gray screen due to the server failing to respond. This can be fixed by restarting the app.
* Panning the map very quickly can cause the app to slow down immensely. Avoid this for the time being.