

# LCRail

LCRail is a Linked Connections client written in Qt 5 and Silica QML.

## Features

- **Stop search:** Search for your favorite stop in 4 different languages (Dutch, English, French and German).
- **Liveboard:** Show all the departing vehicle of a stop, directly streamed to your device.
- **Journey:** Plan your journey between 2 stops. The routes are streamed to your device.
- **Recalculating:** Never refresh your view! LCRail automatically updates and reroute your journey or liveboard.
- **Notifications:** Changes to your liveboard or journey? LCRail will notify you with a notification.

## Benchmarks

The benchmarks are available in the **benchmarks** folder. This folder contains:

- **benchmark.sh:** A Bash shell script to benchmark a device.
- **main.py, plot.py and parser.py:** A Python script to plot the graphs from the benchmark data. The **Pipfile** can be used to install (**pipenv install**) all the dependencies in a virtual environment. To generate the graphs, run: **python3 main.py lcraill**
- **results:** The verbose benchmark data can be found here for each implementation, type and device.
- **\*.png:** The generated graphs in PNG format.

## Build instructions

In order to run LCRail you need to have a Sailfish OS device or use the Sailfish Emulator from the Sailfish IDE. You can find the Sailfish IDE on [https://sailfishos.org/wiki/Application\\_Development](https://sailfishos.org/wiki/Application_Development) You must have set up a device (with developer mode enabled) if you want to deploy it to a physical Sailfish OS device.

1. Open the **harbour-lcraill.pro** in the Sailfish IDE.
2. Check if the kit (**SailfishOS-3.0.2.8-armv7hl** for the Sony Xperia X), build mode (**debug** is fine) and that the deployment device (**Xperia X (ARM)** for the Sony Xperia X) are correct.
3. Open the **QRail/qraill.pro** file in the Sailfish IDE. The IDE will switch automatically to this project.
4. Switch the **deploy** mode to **Deploy as RPM package** in the Sailfish IDE.
5. Build QRail by clicking on the hammer build button.
6. Set the active project back to LCRail.

7. Switch the `deploy` mode to `Deploy as RPM package` in the Sailfish IDE.
8. Deploy LCRail by clicking on the run (green arrow) button.