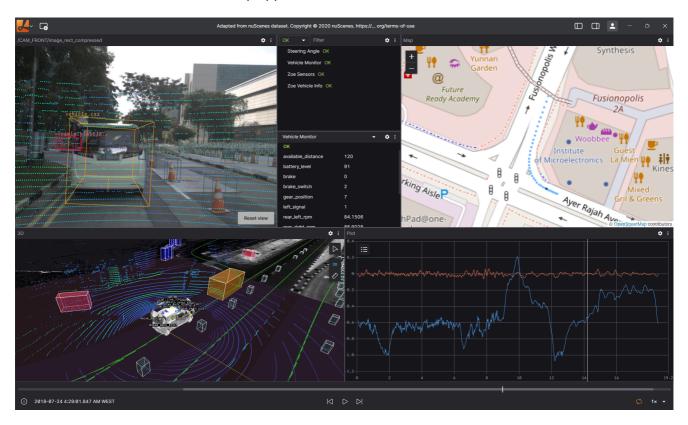# Autotblick

Autotblick is an integrated visualization and diagnosis tool for robotics, available in your browser or as a desktop app on Linux, Windows, and macOS.

Dependencies:

- Node.js v16.10+
- Git LFS

🚀 Getting started

Clone the repository:

```
git clone https://github.com/lichtblick-suite/lichtblick.git
```

Pull large files with Git LFS:

```
git lfs pull
```

Enable corepack:

```
corepack enable
```

Install packages from `package.json`:

```
yarn install
```

- If you still get errors about corepack after running `corepack enable`, try uninstalling and reinstalling Node.js. Ensure that Yarn is not separately installed from another source, but is installed *via* corepack.

Launch the development environment:

```
# To launch the desktop app (run scripts in different terminals):
$ yarn desktop:serve        # start webpack dev server
$ yarn desktop:start        # launch electron (make sure the desktop:serve
finished to build)

# To launch the web app:
$ yarn run web:serve        # it will be avaiable in http://localhost:8080
```

⚠️ Ubuntu users: the application may present some issues using GPU. In order to bypass the GPU and process it using directly the CPU (software), please run lichtblick using the variable `LIBGL_ALWAYS_SOFTWARE` set to `1`:

```
LIBGL_ALWAYS_SOFTWARE=1 yarn desktop:start
```

:hammer_and_wrench: Building Lichtblick

<<<<<<< HEAD

fix: remote Lichtblick update

=======

upstream/main

Build the application for production using these commands:

```
# To build the desktop apps:
$ yarn run desktop:build:prod   # compile necessary files

- yarn run package:win          # Package for windows
- yarn run package:darwin       # Package for macOS
- yarn run package:linux        # Package for linux

# To build the web app:
$ yarn run web:build:prod

# To build and run the web app using docker:
$ docker build . -t lichtblick
$ docker run -p 8080:8080 lichtblick

# It is possible to clean up build files using the following command:
$ yarn run clean
```

- The desktop builds are located in the `dist` directory, and the web builds are found in the `web/.webpack` directory.

License (Open Source)

Lichtblick follows an open core licensing model. Most functionality is available in this repository, and can be reproduced or modified per the terms of the Mozilla Public License v2.0.

:handshake: Contributing

Contributions are welcome! Lichtblick is primarily built in TypeScript and ReactJS. All potential contributors must agree to the Contributor License Agreement outlined in CONTRIBUTING.md.

⭐ Credits

Lichtblick originally began as a fork of Foxglove Studio, an open-source project developed by Foxglove.