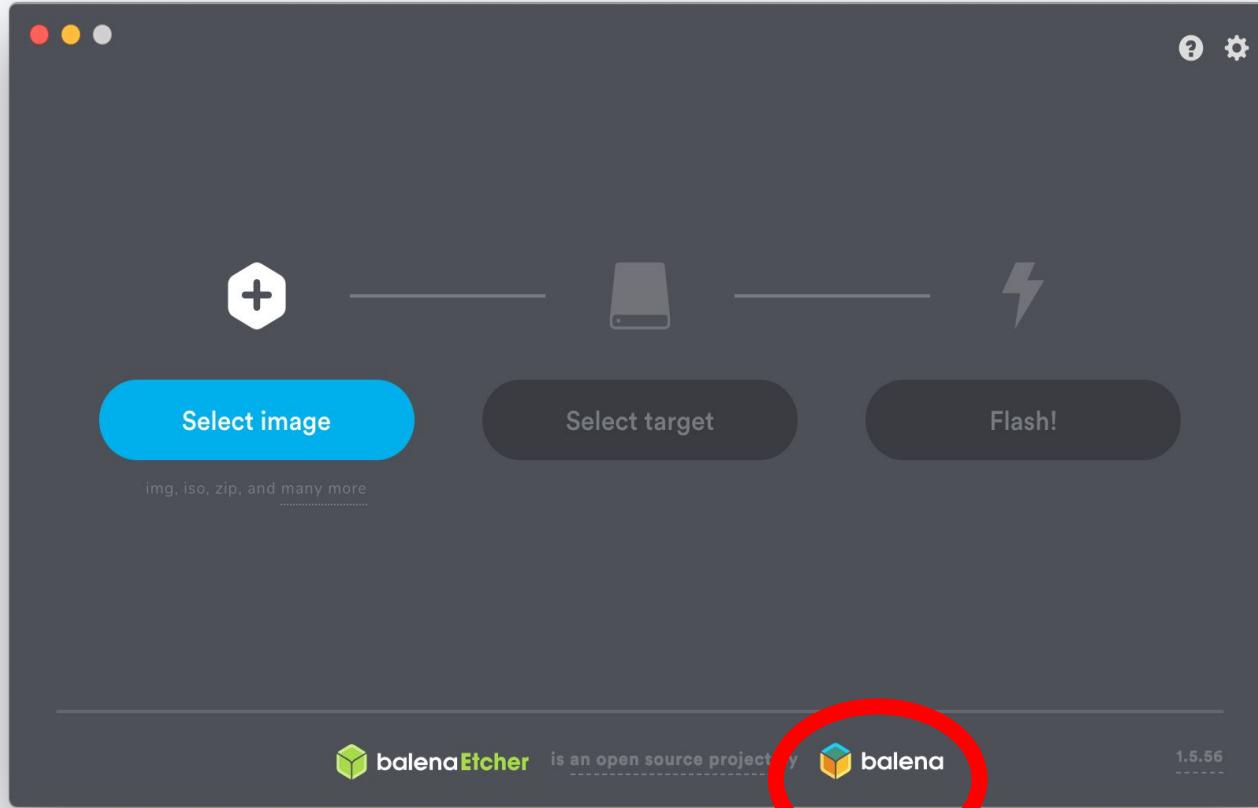




balenaHub



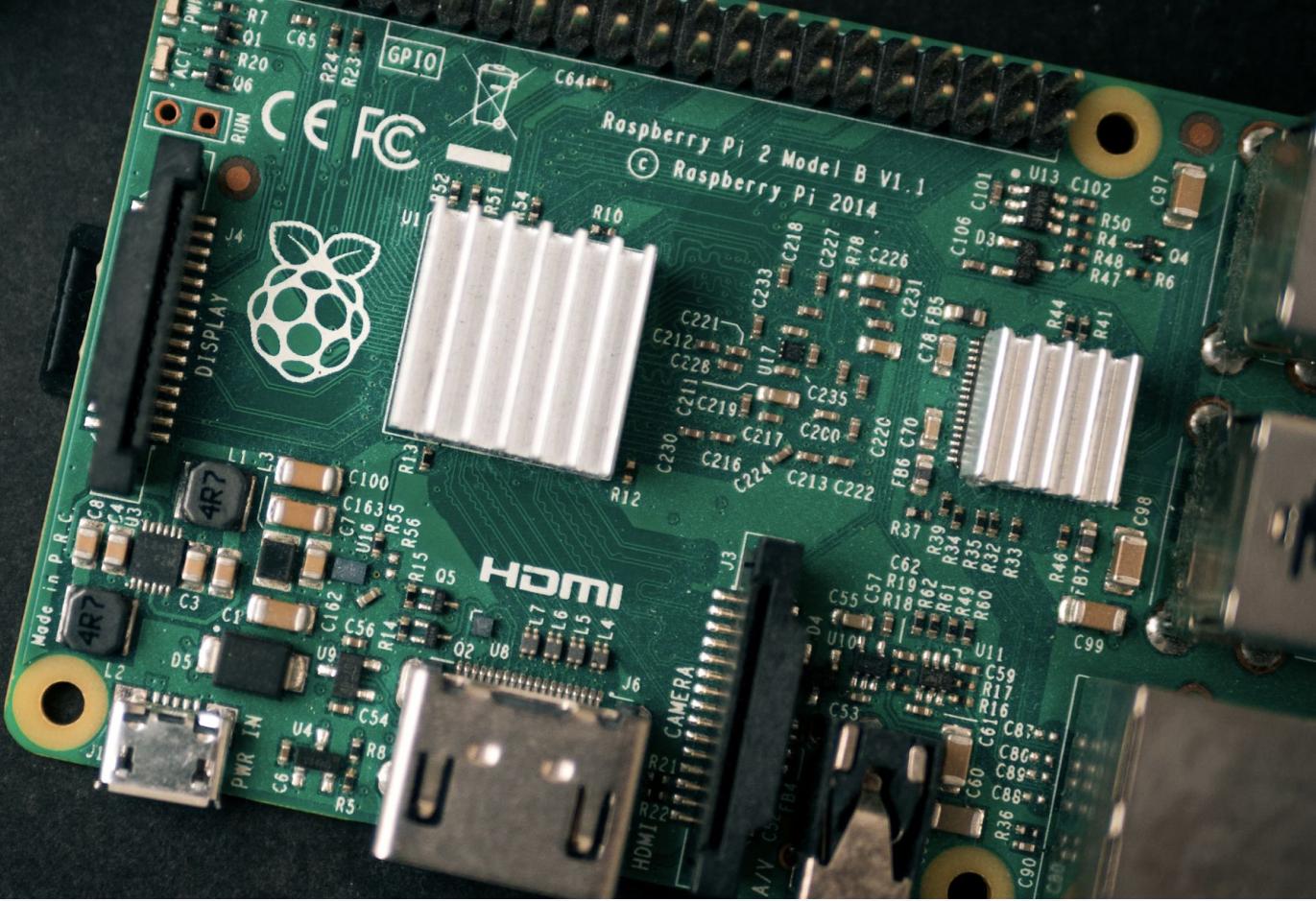


Programming is magic



IoT is still hard!





+30M Raspberry Pi sold (*)

(*) <https://www.zdnet.com/article/raspberry-pi-now-weve-sold-30-million/>



Buy a Raspberry Pi 4 Desktop

https://www.raspberrypi.org/products/raspberry-pi-4-desktop-kit/

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Raspberry Pi 4 Desktop Kit

Full desktop computer kit - just connect to HDMI display(s)

Buy now

Specification

Raspberry Pi 4 Desktop kit is supplied with:

- Raspberry Pi 4 Model B (2GB, 4GB or 8GB version)
- Raspberry Pi Keyboard & Mouse
- 2 x micro HDMI to Standard HDMI (A/M) 1m Cables
- Raspberry Pi 15.3W USB-C Power Supply
- Raspberry Pi 4 Case
- Official Raspberry Pi Beginner's Guide (English language)
- 16GB NOOBS with Raspberry Pi OS microSD card



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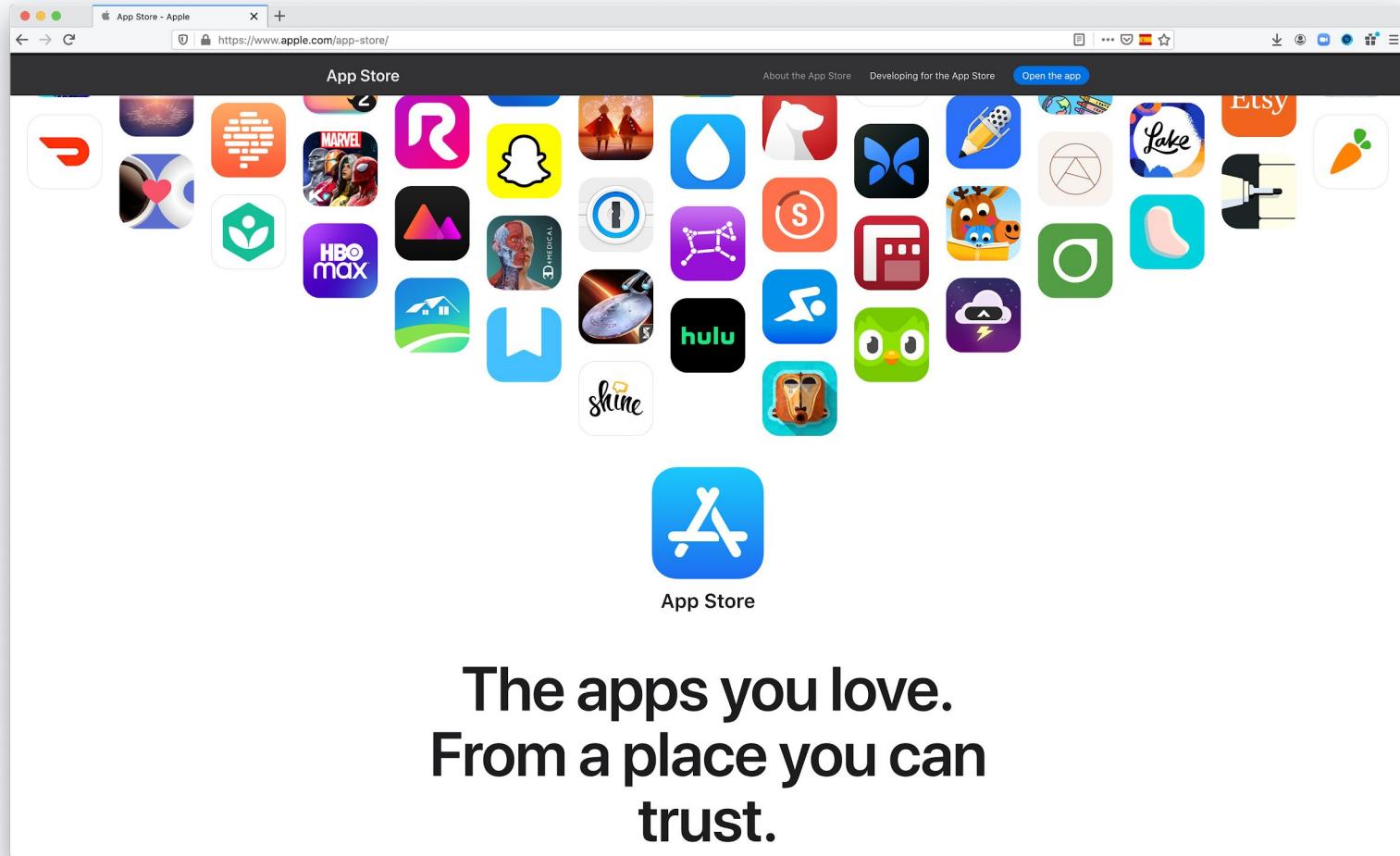
raspberry pi projects home automation

Google Search I'm Feeling Lucky

Report inappropriate predictions Learn more

This screenshot shows a Google search results page. The search bar at the top contains the query "raspberry pi projects". Below the search bar is a dropdown menu showing various related search suggestions. At the bottom of the search bar area are two buttons: "Google Search" and "I'm Feeling Lucky". Below the search bar, there is a link to report inappropriate predictions and a "Learn more" link. The main content area of the page is currently blank, indicating that the search results have not yet loaded.







Write IoT / Edge Apps!





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Use Raspberry Pi's and Bluetooth BLE beacons to ensure you never lose your important stuff again.

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WORKS WITH



balenaHub: an easier way to find... balena dashboard | Application

https://dashboard.balena-cloud.com/apps

Getting Started Docs Forums Status Marc Pous MP

Create and deploy to application

Use an existing application instead

Organization: marc6's Organization / Application: bird-watcher-balenafin

Default device type: Balena Fin (CM3)

Application type: Starter

Advanced

Cancel Create and deploy

Applications

Warning! You are using a support agent account. You should only use this account while you are on support and not for regular projects.
Tip: Use an incognito window or container tabs so that nothing is preserved after your support shift is over.

Add filter Search entries...

Views Actions Tags

| Status: Online | Organization |
|----------------|--------------------------|
| 161 | balenaLabs |
| 14 | balenaLabs |
| 3 | balena |
| 1 | resinio20's Organization |
| 1 | marc6's Organization |
| 1 | hori's Organization |
| 0 | balenaLabs |
| 0 | marc6's Organization |
| 0 | balenaLabs |
| 0 | balenaLabs |
| 0 | marc6's Organization |

Need help



balena dashboard | TheThings®

https://dashboard.balena-cloud.com/apps/1782954/devices

Getting Started Docs Forums Status Marc Pous MP

Add new device

Select device type [View docs](#)

Fin Balena Fin (CM3)

Select OS type [View docs](#)

balenaOS ESR

Select version

v2020.07.2 (next, recommended)

Select edition

Development [Recommended for first time users](#)
Development images should be used when you are developing an application and want to use the fast local mode workflow. This variant should never be used in production.

Production
Production images are ready for production deployments, but don't offer easy access for local development.

Network Connection

Ethernet only

Wifi + Ethernet

Wifi SSID

Wifi Passphrase

Advanced

Download balenaOS

Instructions

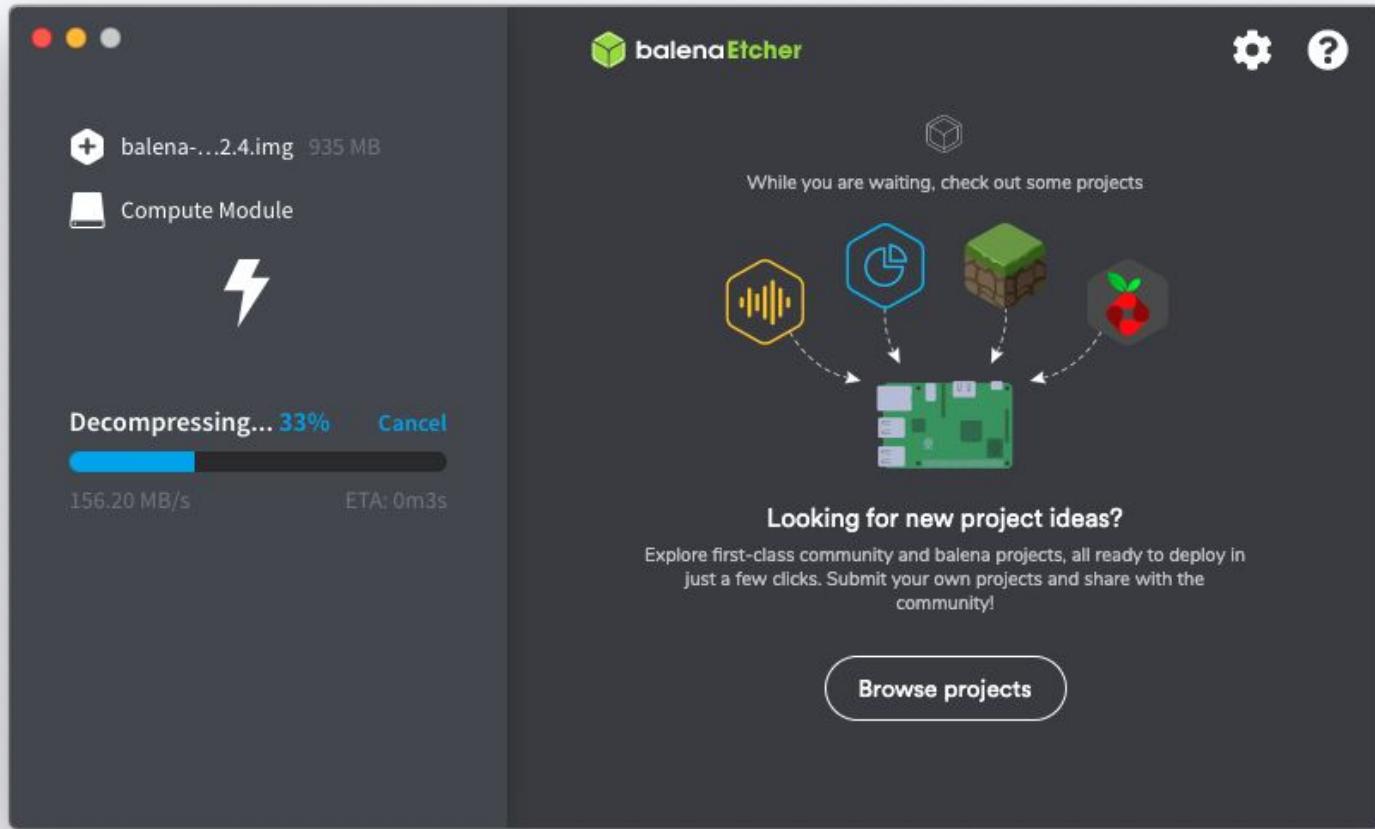
- 1 Use the form on the left above to configure and download balenaOS for your new device.
- 2 While not having the Fin board powered, connect your system to the board's DBG/PRG port via a micro-USB cable. Note for the Fin v1.1, only power the Fin from the PRG port for flashing.
- 3 Only for the Fin v1.0, power on the Fin by attaching power to either the Barrel or the Phoenix connector.
- 4 Write the OS to the internal MMC storage device. We recommend using [Etcher](#).
- 5 When flashing is complete, power off the board by detaching the power if connected, and unplug the DGB micro-USB cable.
- 6 Connect your Balena Fin (CM3) to the internet, then power it up.
- 7 Your device should appear in your application dashboard within a few minutes. Have fun!

For more details please refer to our [Getting Started Guide](#).

Actions Tags

Need help

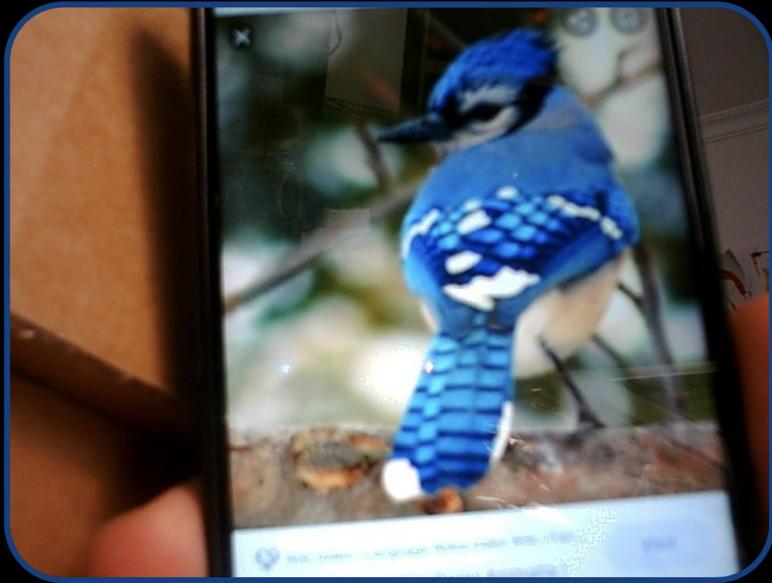






AI Powered Smart Bird Feeder

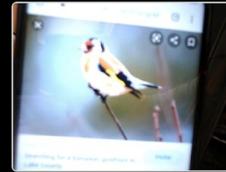
Connection over BalenaVPN



Gallery

[Clear](#)

Goldfinch



Cardinal

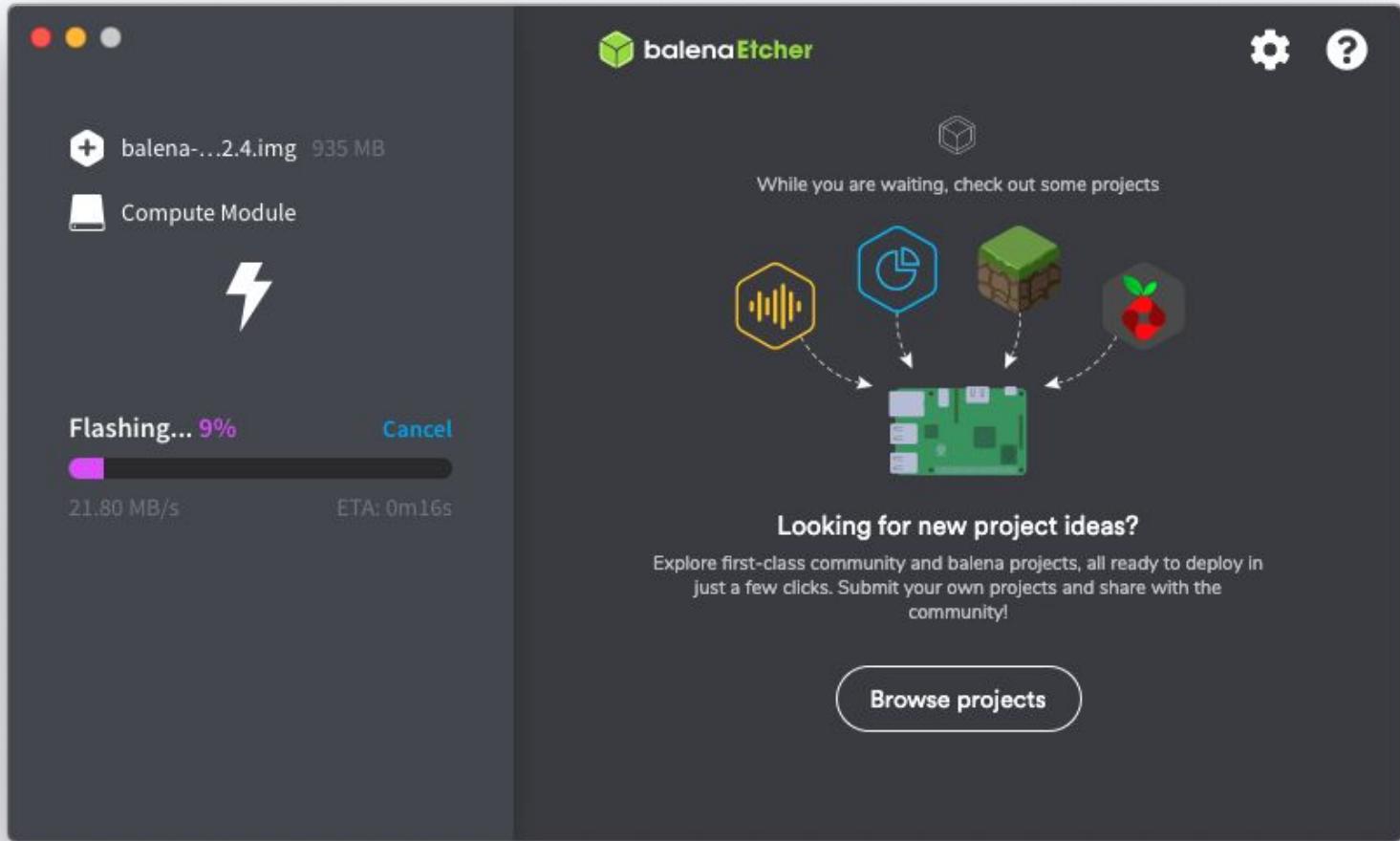


Cardinal



Why do this?





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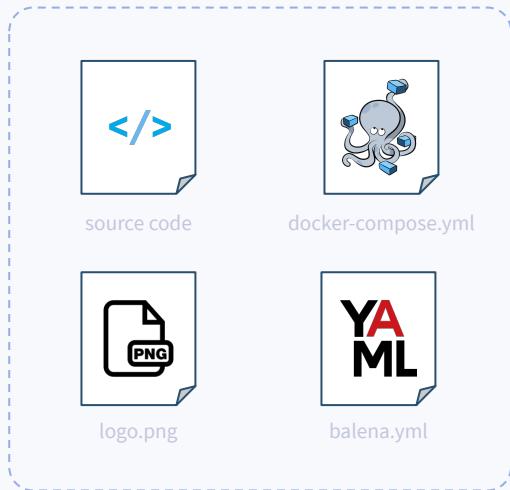
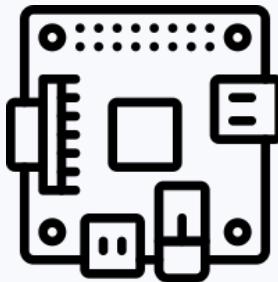
A balenaCloud Raspberry Pi app to display replica near real-time UK railway station departure data on SSD1322 screens.

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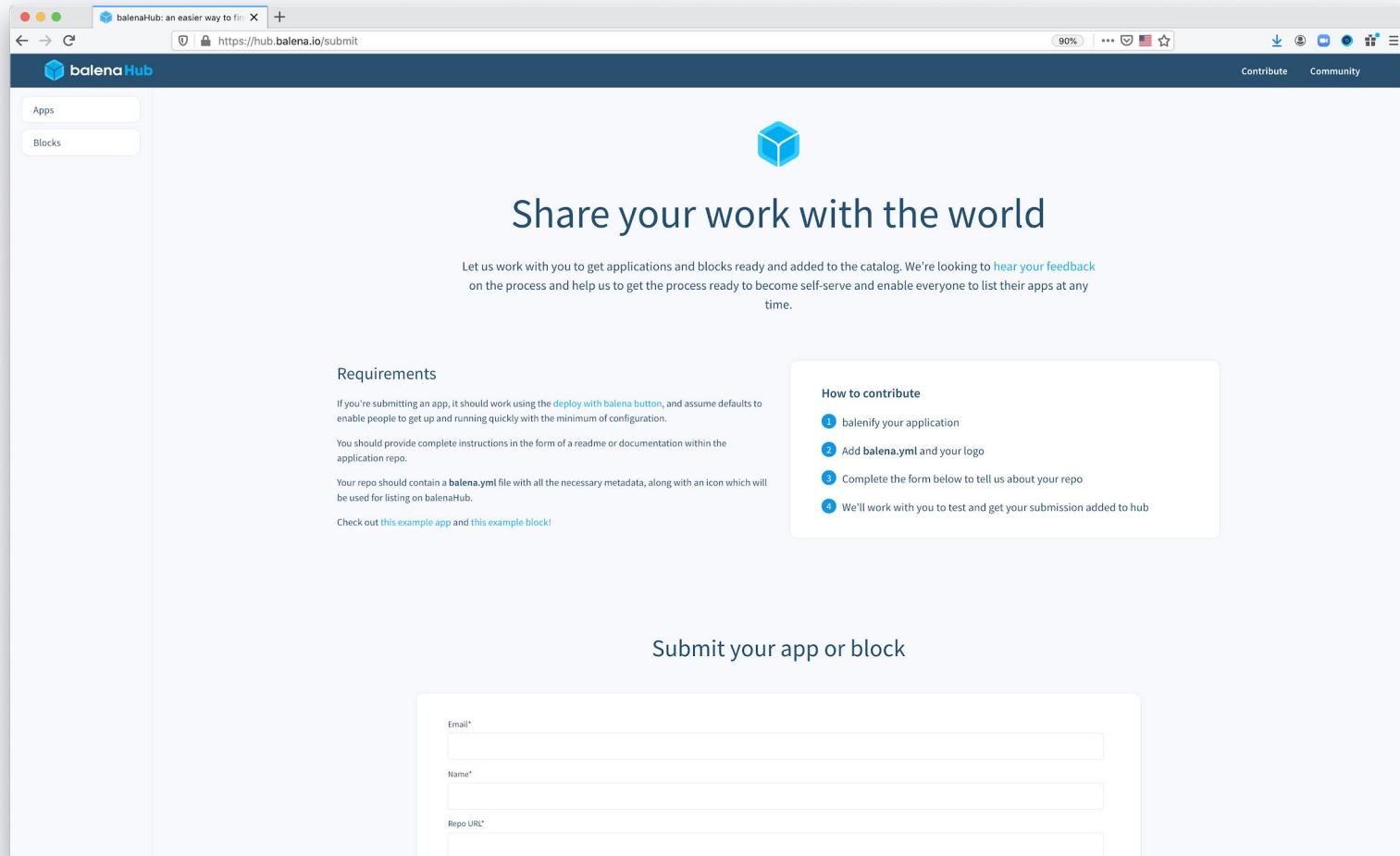




```
name: "myApp"
description: "balenaHub description for myApp goes here!"
type: "sw.application"
assets:
  repository:
    type: "blob.asset"
    data:
      url: "https://github.com/myorg/myapp"
  logo:
    type: "blob.asset"
    data:
      url: "https://raw.githubusercontent.com/myorg/myapp/main/logo.png"
data:
  applicationConfigVariables:
    - BALENA_HOST_CONFIG_CONNECTIVITY_CHECK: true
  applicationEnvironmentVariables:
    - ENV: "DEV"
    - VIDEO_OUTPUT: "BROWSERBLOCK"
    - THREAD_COUNT: 32
  defaultDeviceType: "raspberry-pi"
  supportedDeviceTypes:
    - "raspberry-pi"
    - "raspberry-pi2"
    - "raspberrypi3"
    - "raspberrypi4-64"
    - "finnm3"
    - "intel-nuc"
```

<https://www.balena.io/docs/learn/deploy/deploy-with-balena-button/#balenayml-configuration-file>





The screenshot shows a web browser window for the balenaHub website at <https://hub.balena.io/submit>. The title bar says "balenaHub: an easier way to fin X". The top navigation bar includes links for "Contribute" and "Community". On the left, there are two buttons: "Apps" and "Blocks". In the center, there's a large blue cube icon with the text "Share your work with the world" below it. A callout box on the right lists steps for contribution: 1. balenify your application, 2. Add `balena.yml` and your logo, 3. Complete the form below to tell us about your repo, and 4. We'll work with you to test and get your submission added to hub. At the bottom, there's a section titled "Submit your app or block" with three input fields: "Email*", "Name*", and "Repo URL*".

Share your work with the world

Let us work with you to get applications and blocks ready and added to the catalog. We're looking to [hear your feedback](#) on the process and help us to get the process ready to become self-serve and enable everyone to list their apps at any time.

Requirements

If you're submitting an app, it should work using the [deploy with balena button](#), and assume defaults to enable people to get up and running quickly with the minimum of configuration.

You should provide complete instructions in the form of a readme or documentation within the application repo.

Your repo should contain a `balena.yml` file with all the necessary metadata, along with an icon which will be used for listing on balenaHub.

Check out [this example app](#) and [this example block](#)!

How to contribute

- 1 balenify your application
- 2 Add `balena.yml` and your logo
- 3 Complete the form below to tell us about your repo
- 4 We'll work with you to test and get your submission added to hub

Submit your app or block

Email*

Name*

Repo URL*



balenaHub: an easier way to fin X +

https://hub.balena.io/blocks

90% ⚡ 🇺🇸 ⌂ ⌃ ⌄ ⌅ ⌆ ⌈ ⌉ ⌊ ⌋ ⌊ ⌋

Contribute Community

balena Hub

Apps

+ Submit a block

Search entries...

Blocks

connector by balenablocks

Intelligently connect data sources with data sinks.

[Read more](#)

WORKS WITH Fin, BeagleBoard, Raspberry Pi, Intel NUC, Orange Pi

dashboard by balenablocks

A customizable data visualization tool with automatically generated dashboards.

[Read more](#)

WORKS WITH Fin, BeagleBoard, Raspberry Pi, Intel NUC, Orange Pi, 1 more...

fbcp by balenablocks

Provides fbcp driver for using SPI-based displays on Raspberry Pis

[Read more](#)

WORKS WITH Fin, BeagleBoard, Raspberry Pi, Intel NUC, Orange Pi

browser by balenablocks

a hardware accelerated web browser to present internal and external URLs on a connected display

[Read more](#)

WORKS WITH Fin, BeagleBoard, Raspberry Pi, Intel NUC, Orange Pi, 2 more...

finabler by balenablocks

Provides a simple interface for controlling the balenaFin's coprocessor running the firmata protocol.

[Read more](#)

WORKS WITH Fin

wifi-connect by balenablocks

A utility for dynamically setting the WiFi configuration via a captive portal.

[Read more](#)

WORKS WITH Fin, BeagleBoard, Raspberry Pi, Intel NUC, Orange Pi, 1 more...

audio by balenablocks

Provides an easy way to work with audio applications in a containerized environment.

[Read more](#)

WORKS WITH Fin, BeagleBoard, Raspberry Pi, Intel NUC, Orange Pi, 3 more...

bluetooth by balenablocks

Optimized bluetooth agent for balenaOS. Easiest way to add bluetooth pairing to your projects! Based on BlueZ 5.0.

[Read more](#)

WORKS WITH Fin, BeagleBoard, Raspberry Pi, Intel NUC, Orange Pi, 4 more...

duplicati by balenablocks

Free backup software to store encrypted backups online





Be part of balenaHub!





balenaHub

Marc Pous

marc@balena.io

@balena_io

<https://hub.balena.io>

EOF



EOF





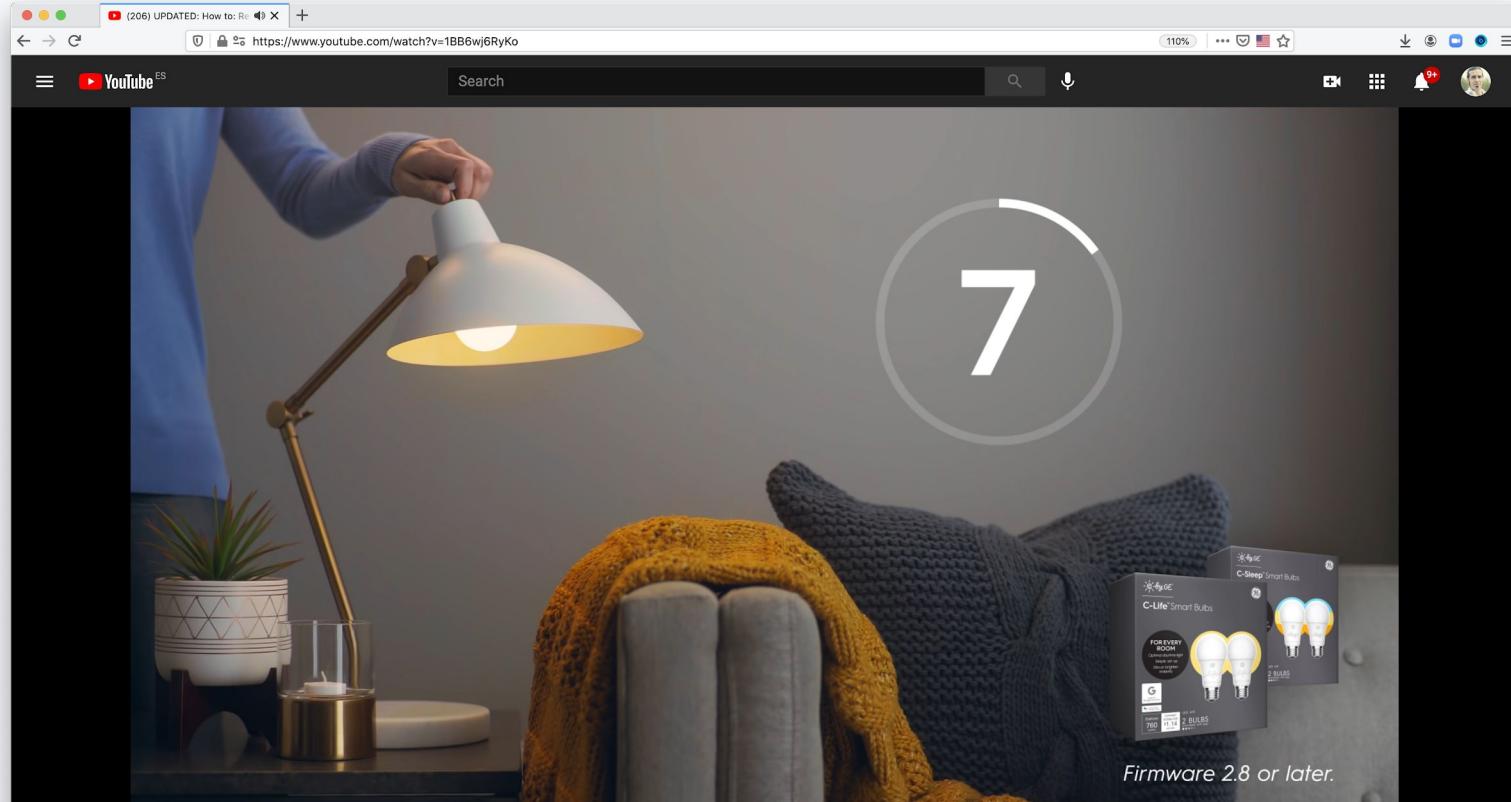
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