

# Flutter on Linux

Flutter is an open source framework by Google for building beautiful, natively compiled, multi-platform applications from a single codebase.

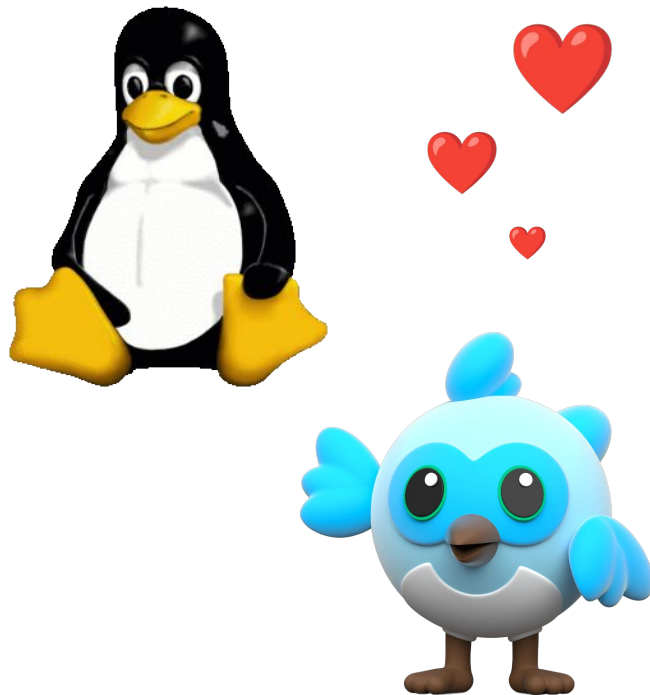


Flutter

# Beginnings

Canonical and Google worked together to enable Flutter on Linux

- Bring new developers to Linux
- Next generation development for Linux
- Develop new apps for Ubuntu



# Shell

Each platform requires a shell that creates the window for Flutter to run inside

- Built on GTK3
- OpenGL rendering
- Accessibility

Flutter Application (Dart)

Flutter Linux Shell (C++)

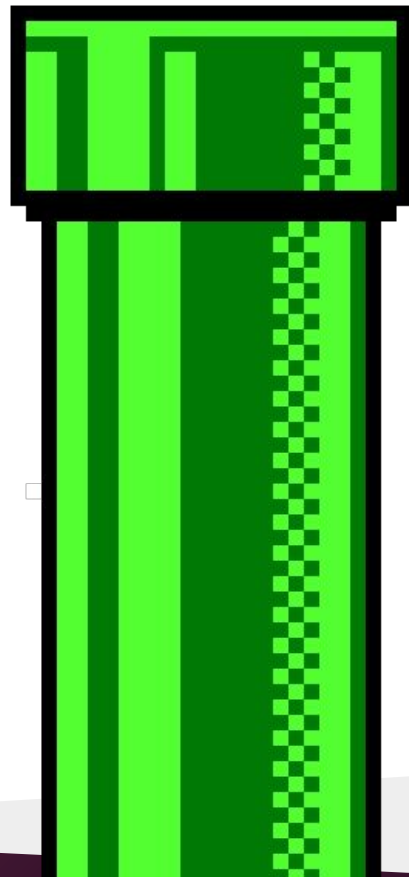
GTK3

Wayland or X11

# Dart Enhancements

Low level Dart features that enable high level Linux services

- Unix domain sockets
- Passing file descriptors over sockets
- Pipes
- For everything else, there's FFI and plugins



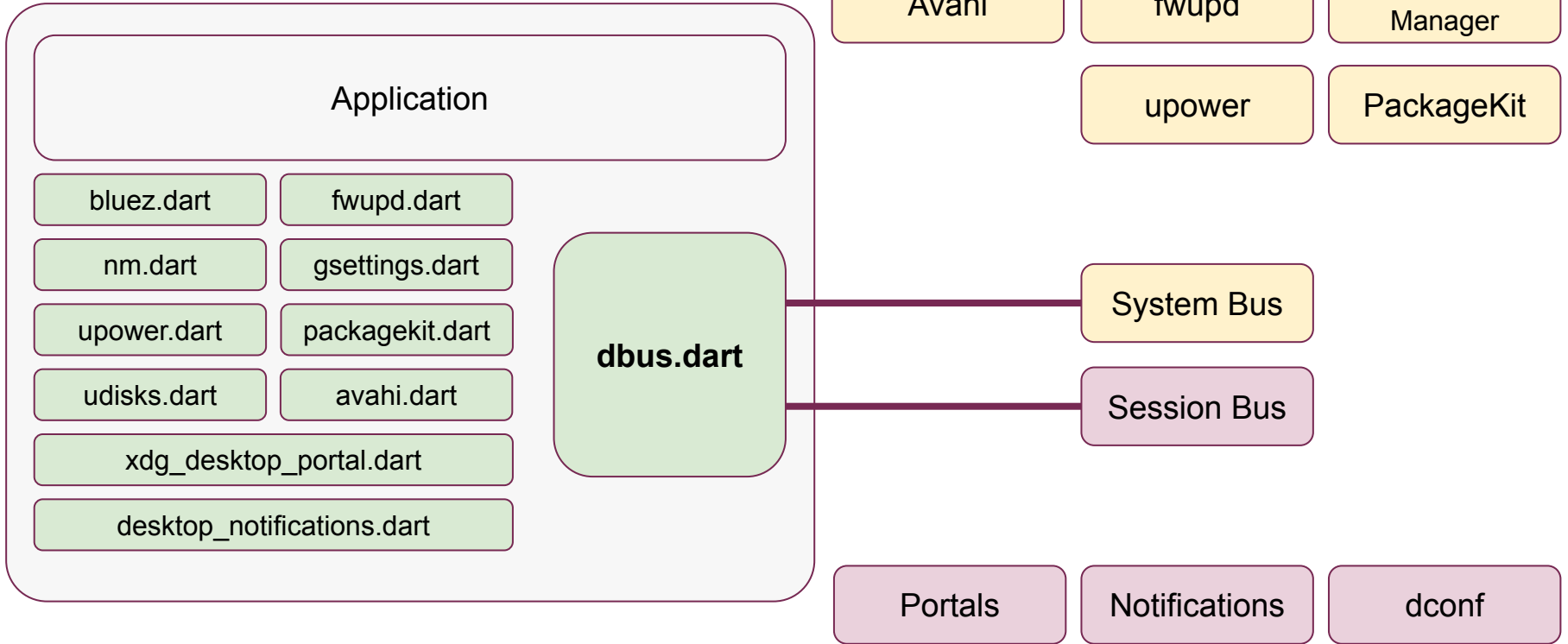


🔍 Search packages

The official package repository for [Dart](#) and [Flutter](#) apps.

Supported by 

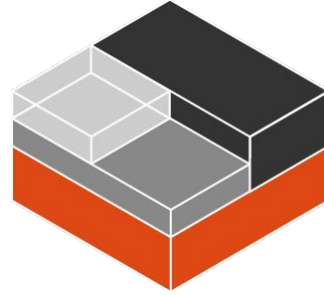
# D-Bus Packages



# Linux Packages

Enabling Dart/Flutter to access Linux services.

- 📦 appstream
- 📦 snapd
- 📦 lxd
- 📦 udev
- 📦 yaru
- 📦 handy\_window
- 📦 window\_manager
- 📦 xterm
- 📦 ...

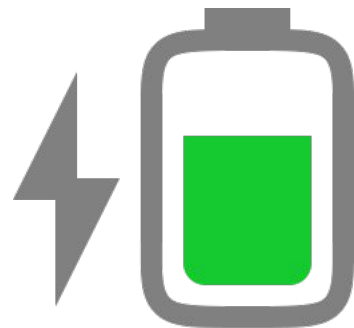
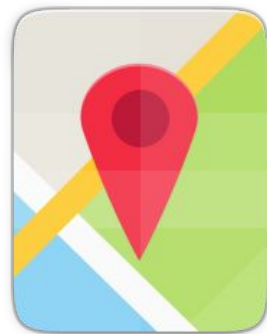
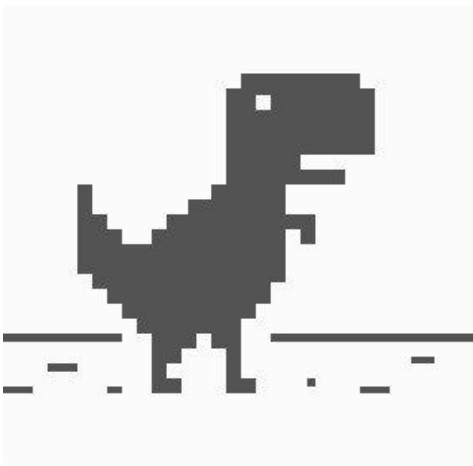




# Multi-platform Packages

One API for all platforms

- connectivity\_plus
- battery\_plus, ...
- flutter\_local\_notifications
- geolocator
- ...



# Distribution via Snap Store

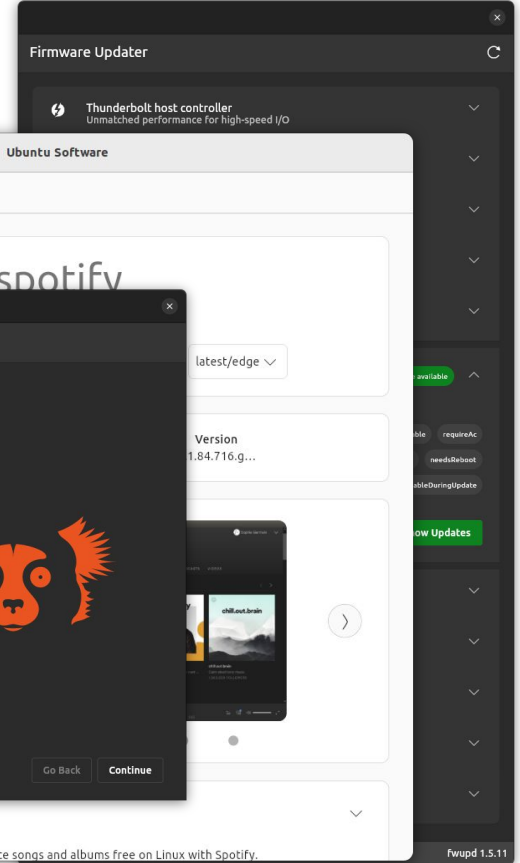
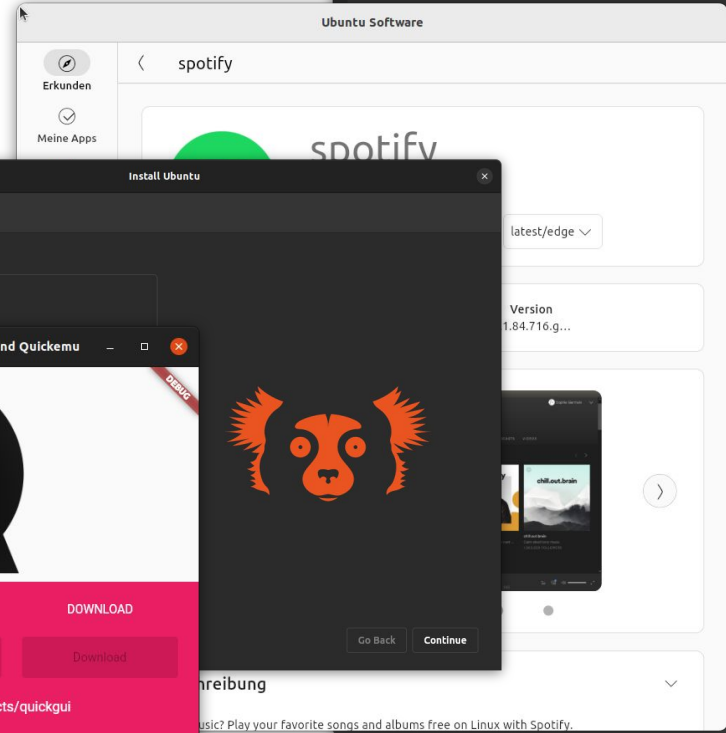
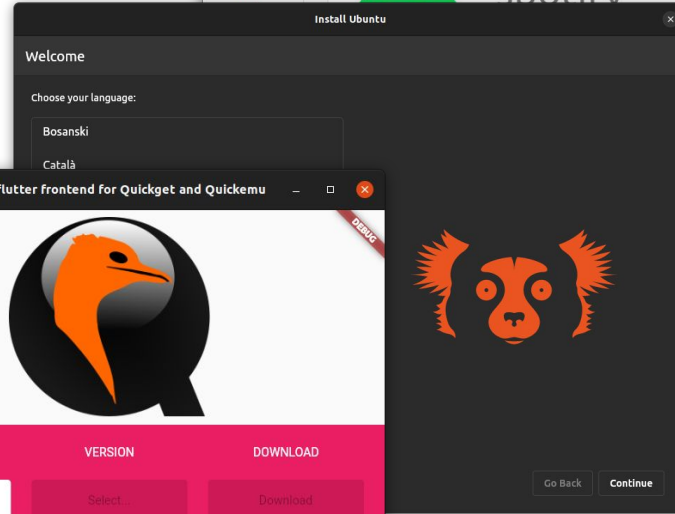
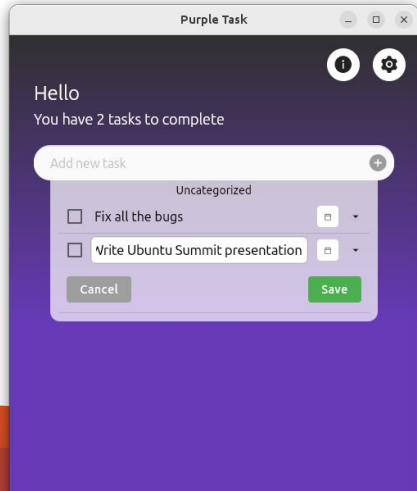
```
name: flutter-app
grade: stable
confinement: strict
base: core22
version: '0.1'
summary: 'Barebones Flutter app'
description: 'count things'

apps:
  flutter-app:
    command: bin/myapp
    extensions: [gnome]
parts:
  flutter-app:
    plugin: flutter
    source: .
```

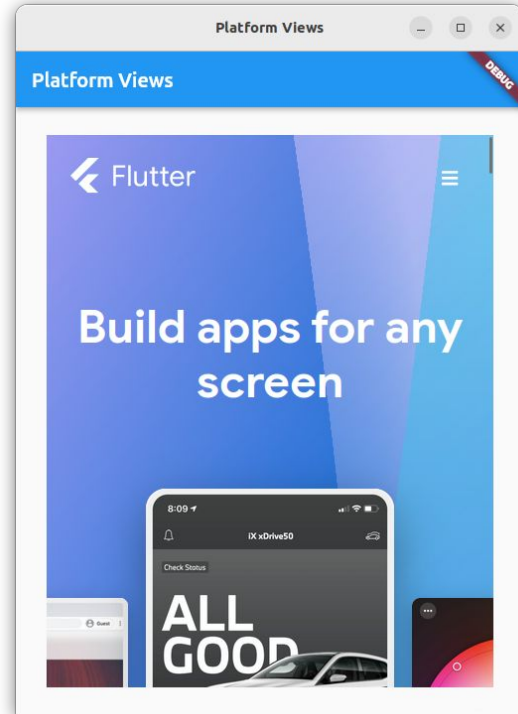
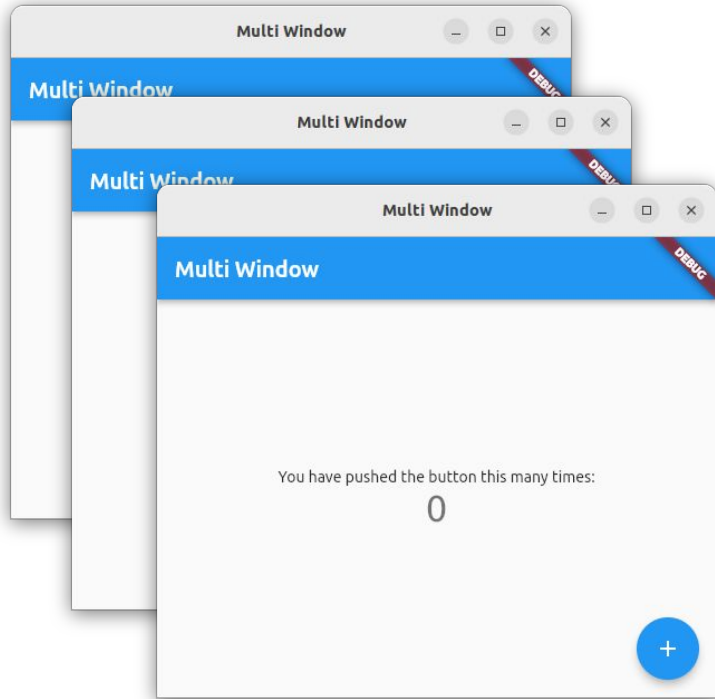


# Flutter in the wild

- Firmware Updater
- Ubuntu Software
- Ubuntu Desktop Installer
- Quickgui
- Purple Task



# The Future





Thank you. Questions?