



Bliss

Labs & OS

FOSDEM 2024



- ▶ A volunteer based 501c(3) non-profit organization that helps open-source projects thrive
- ▶ BlissLabs' goal is to create and maintain various open source operating systems and other software that helps to extend the life of devices in order to help with the world's e-waste problems.
- ▶ BlissLabs maintains BlissOS and other OSS softwares
- ▶ Not a bunch of projects , but a very matured open source org with a proper org structure .

BlissLabs



- ▶ We work to mentor and teach future open source developer's in all aspects of development and design, including animation
- ▶ We form alliances with other projects that share in our visions.
- ▶ We develop tools to help minimize the complex development process and aid in learning.
- ▶ We act as a global fiscal host for open source projects, allowing for a much larger opportunity to work with others globally and increase user base.

BlissLabs - Mission



Region - Continent - Asia, North America, South America , Europe, Oceania , Middle-East, Eurasia .

Age group - 13 - 60

Students - Professionals - Retirees

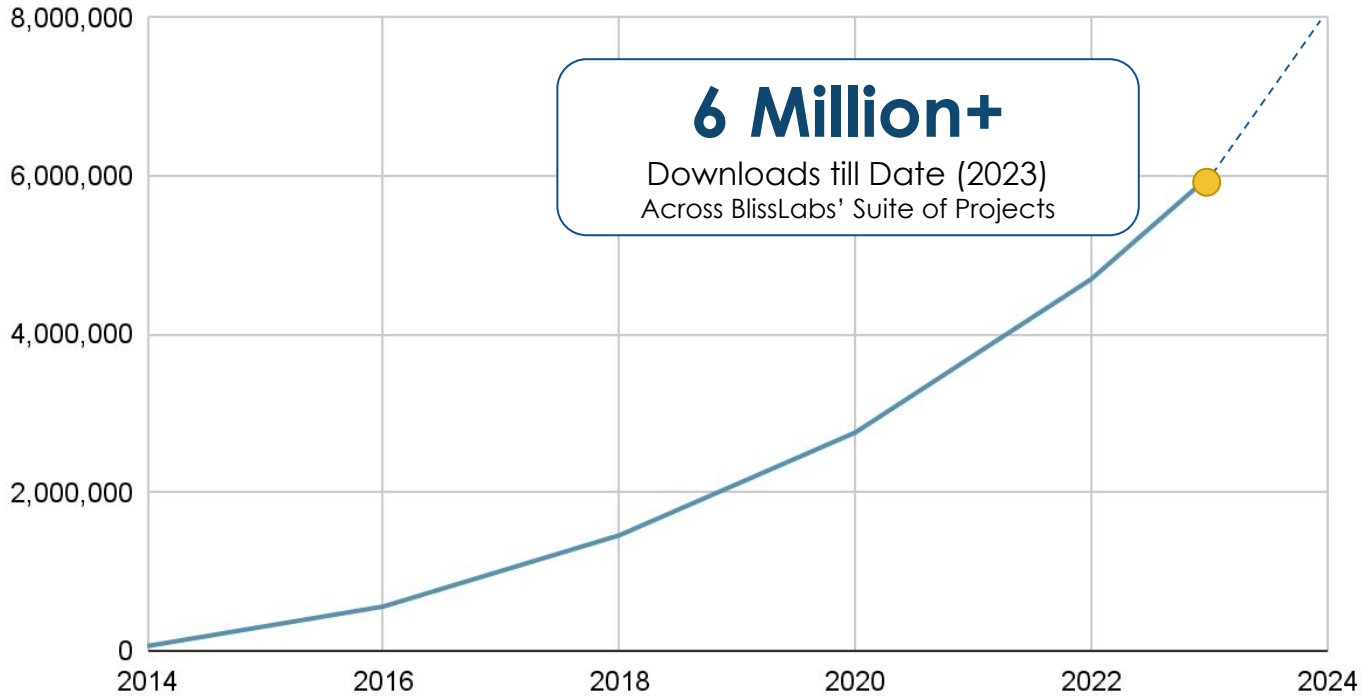
Women - Men - LGBT - Differently Abled in key positions like CFO,CPO,CTO.

Education - Middle school to Phd

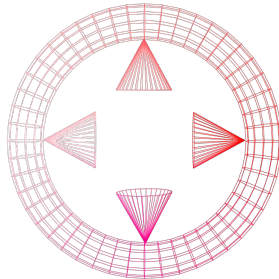
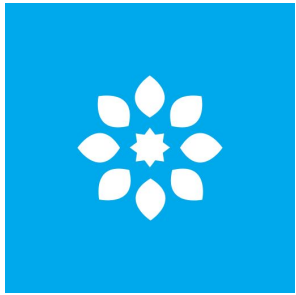
Diversity - BlissLabs



Estimated Download Count



BlissLabs



What we represent now



- ▶ **Bliss OS & Bliss OS Go** - “Unified android experience irrespective of hardware”
 - ▶ Android-x86 OS for Intel & AMD x86_64v2 devices
- ▶ **Waydroid** - “Android integration with Linux - light weight”
 - ▶ Containerized approach for Android on Linux (using Wayland)
- ▶ **Android-Linux hybrid** - “Control fully from Linux, but at the same time run as an independent hardware-accelerated OS”
- ▶ **SmartDock** - “Desktop experience like windows/chromeOS for android”
 - ▶ FOSS Desktop UI app for Android - multiwindow , taskbar , dock etc.
- ▶ **XT Mapper** - “Only OSS gaming focused keymapper for android”
 - ▶ FOSS on-screen keymapper solution for Android
- ▶ **Supreme Gamers** - “Android-x86 Development community who made - installer , recovery solutions etc “
- ▶ **Boringdroid** - “Complete OSS Desktop UI solution for AOSP built into source”
- ▶ **Bliss Bass** - “Production ready example of Android on x86 hardware, based on BlissOS, adding further customization/configuration, rebrandability and built to be used with our build automation toolkits.”
- ▶ **Android-Generic Project** - “Easy button for Bliss OS build” . Rapid Prototyping toolkit for Android-x86 based builds.
- ▶ **BlissROM** - Custom Android OS for mobile devices

Bliss Labs - Project portfolio



Matured Process model

- Build
- Testing
- Release
- Documentation - dev & users
- Post release support

BlissLabs Process



- ▶ BlendOS - Waydroid
- ▶ Ubuntu web - Waydroid & Android-Generic
- ▶ Ubuntu Touch - Waydroid
- ▶ Prime OS - Uses Android-Generic
- ▶ Android-x86 - We supply team resources, build servers, development, etc.

Popular OSS products having links with our projects



Attending Conference

Hardware for testing

Hardware for development (Personal equipment)

Hardware build / web servers

Communication server (slack/discord/gsuite/telegram)

Software services - storage(sourceforge,gdrive),
dev(gitlab,github),process(jira,confluence,trello)-atlassian suite, Web
servers (google,github,update-ota)

BlissLabs - Support for sub projects



Bliss OS



“Android for your PC”

An Android-based open source OS that incorporates many optimizations, features, and modular device support for x86 based PC hardware and peripherals.



- ▶ Mainline Linux based with Android x86 patches
- ▶ Features - Desktop UI, changes for x86 hardware, custom HAL's, etc.
- ▶ Generic Builds (one .iso to rule them all)
- ▶ Tons of customization options included
- ▶ Low-resource based subsystem
- ▶ High performance on x86 based hardware
- ▶ Added Linux tools integrated with Android (Termux, networking & device configuration, etc)

Bliss OS - Features



- ▶ Kiosk
- ▶ Mobile
- ▶ PC's (new & older)
- ▶ Gaming
- ▶ Automotive display
- ▶ POS/CFD
- ▶ Menu Displays
- ▶ Ad Displays
- ▶ TV/Large Screen
- ▶ IOT/IIOT
- ▶ Industrial Displays
- ▶ GAMING
- ▶ Component Displays

DIVERSE TYPE OF USE-CASES



Bliss OS - Apache v2/GPLv2/GPLv3

- ▶ Using Bliss OS using **as is** - free and open source anywhere.
- ▶ Using Bliss OS using **modified and source code released** - still comes as open source.
- ▶ Open for anyone to use the project; coming to BlissLabs in request for consultation/modification is not required.
- ▶ Small per-device or perpetual licensing cost for those that are using a modified source, and do not wish to release source code.

Bliss OS licensing and Funding



- EIDU - Pilot Programs
- Companies using it in products
- Shortlisted by Sourceforge multiple times as Featured project.
- More devices added - More reach across different segments

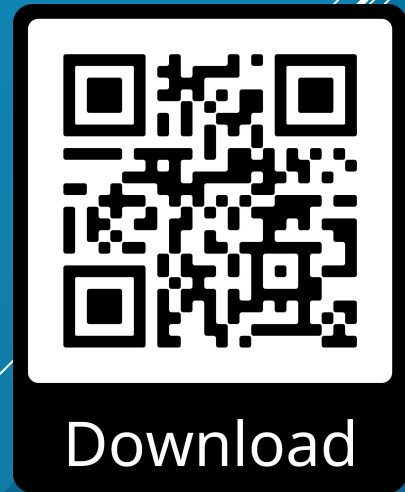


Milestones - Achievements



- You can find Demo Videos on our website
- You can download an ISO for Android 11, 12 & 13 from the website too

DEMO BLISS OS - <https://blissos.org>



- ▶ **New Release (version) happening just after the talk**
- ▶ **Key Features**
 - ▶ Bliss OS v17.0 (Android 14)
 - ▶ Initial features ported from A13 to A14

BlissOS - announcement



- ▶ Product -
 - ▶ More device groups - Raspi , RISCv
 - ▶ More features -
 - ▶ Moving towards Linux hybrids
 - ▶ More independent and complete FOSS ecosystem.
 - ▶ OSS tools/sw
 - ▶ Custom FOSS app store
 - ▶ Edge/IOT/IIOT
- ▶ Process
 - ▶ Documentation even for newbies
 - ▶ Improved/automated installation support
 - ▶ Fine tune already AI enabled support chat bot increase user support automation.

WHAT TO EXPECT IN NEAR FUTURE



- Contests
- Easter Eggs
- Goodies
- Git points
- Blissify videos link in the blisslabs site

Community Engagement



- ▶ Internships
- ▶ Mentorship
- ▶ Matured org
- ▶ Open roles (paid) - hopefully soon - eg:- web development, server maintenance, project management, HR,finance, developer etc.
- ▶ Contributors (can get mileage for next move or can be absorbed)
- ▶ Ease of joining
- ▶ Inclusive , healthy culture. (ego & drama free)
- ▶ Democracy and flat structure

Opportunities



THANK YOU

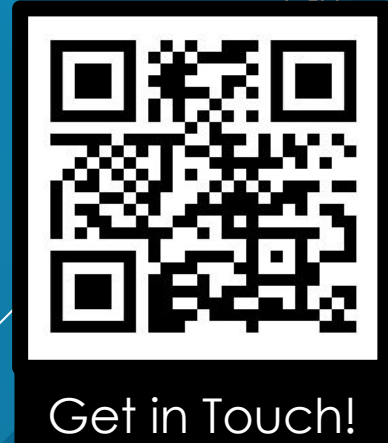
BlissLabs - blisslabs.org

- ▶ Facebook
- ▶ Telegram
- ▶ Discord
- ▶ LinkedIn
- ▶ X (Twitter)

Bliss OS - blissos.org

- ▶ Matrix
- ▶ Telegram
- ▶ X (Twitter)
- ▶ Discord
- ▶ XDA

WHERE TO FIND US



Get in Touch!