



or "Linux"

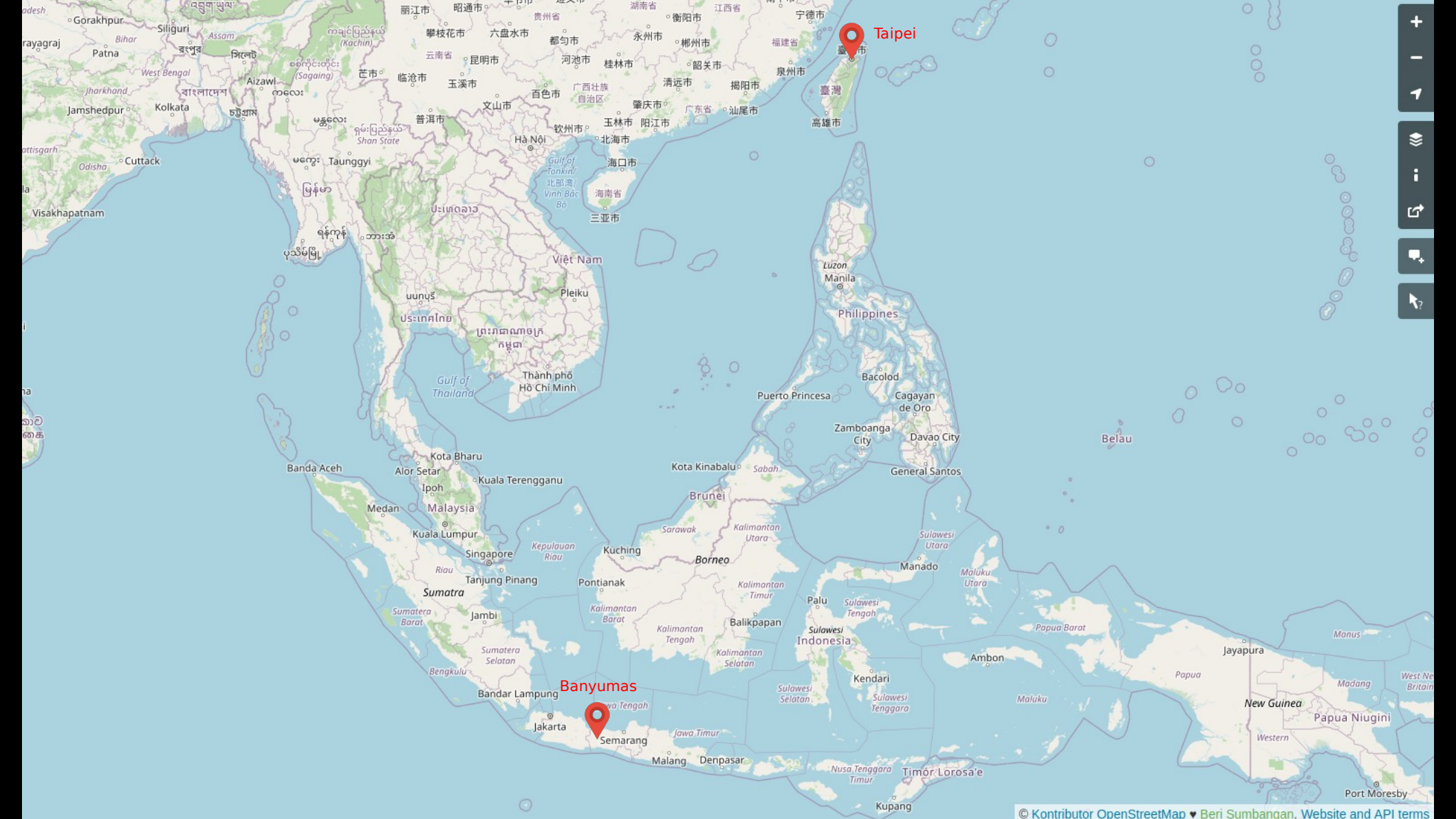
Kuliax: Is GNU/Linux Distribution for Higher Education Still Relevant?

Iwan Setiawan <stwn at unsoed.ac.id>



Agenda

- KuliAx Project
- KuliAx Development
- Challenges
- Journey summarized



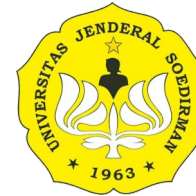
Taipei

Banyumas

Iwan stwn

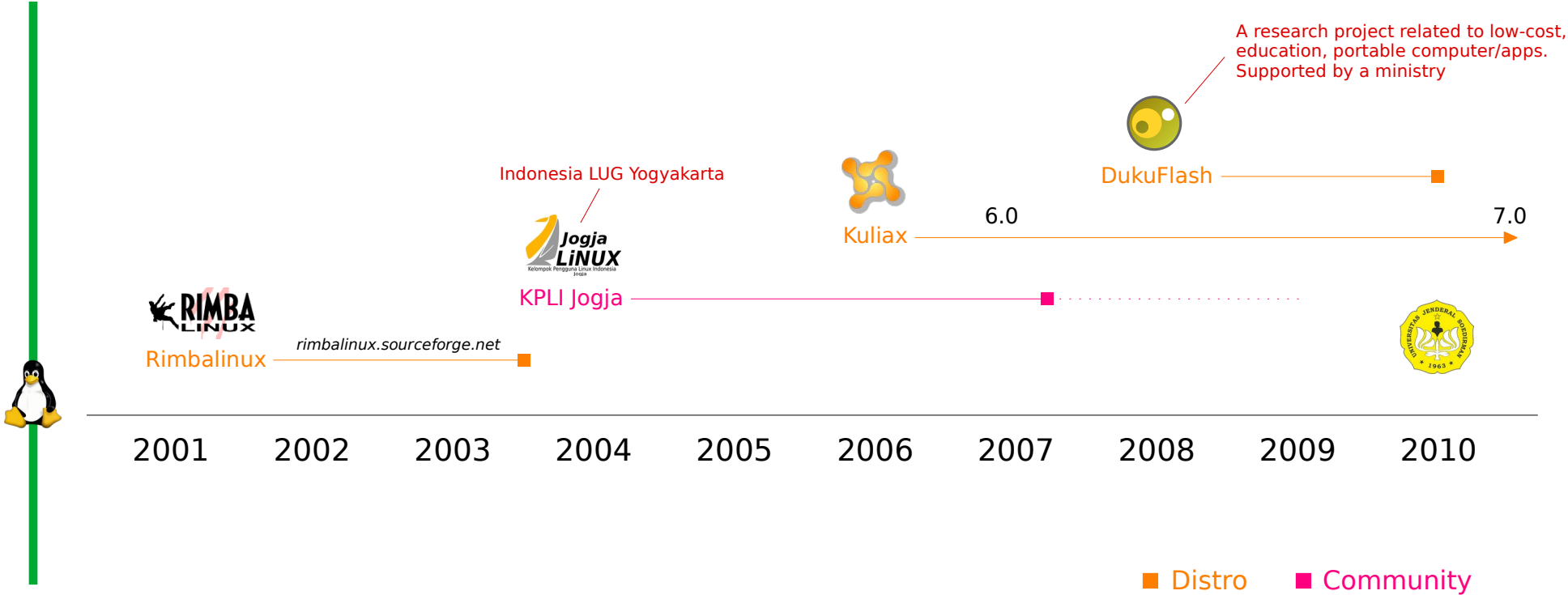
“Open Source” if you want

- Free Software supporter
 - EE Lecturer at Unsoed Computing+Networking
 - CSIE Student at NTUST Cloud Computing and Networking Lab
- Using GNU/Linux since 2000
 - Started with Red Hat ~~6.0~~ 6.2
 - Slackware, then Debian user
- Contributions related to distro GNU/Linux Distribution
 - Rimbainux, a community project
 - DukuFlash, a research project



Join as an FSF associate member: <https://my.fsf.org/join?referrer=341589>

Iwan stwn: Timeline



Kuliax Project

- Formed when the founder was a student
 - Lucky enough to be supported by local community
 - At first, it was just a developer and a graphic designer
- Kuliax is “Kuliah dengan Linux”
- Bringing Free Software/^{FOSS}Open Source to higher education
 - *Free/stable* GNU/Linux desktop for higher education
 - Distro development, community education and supports
 - Licenses: GPLv3, CC By-SA 3.0

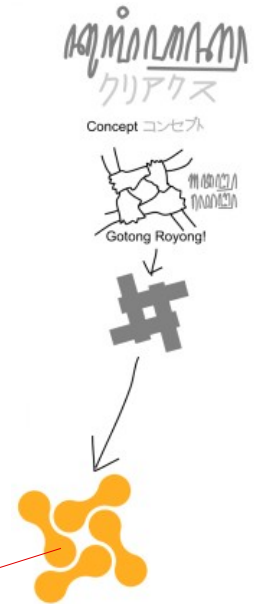


Kuliah, the Distro

- Target: IT-related study programs/other programs that use computer as the tool for learning, research, development
 - Includes apps considered as useful in higher edu
 - Also some resources like e-books, etc.
- The first version is based on the starting year
 - Codenames taken from traditional food names
 - Bakpia for 6.0, and Lumpia for 7.0
- Different versions, different team members

* <https://en.wikipedia.org/wiki/Sodipodi>

Created using Sodipodi 



Fahrezal Effendi, @exavolt

Kuliah 6.0

+adapted live scripts/apps from Kanotix and Sidux

- Based on Debian/KNOPPIX, developed for IT study program
 - Curriculum and syllabuses as the guidelines considered carefully
 - The founder's final project at a university
 - More than 10 mirror sites for the ISO image ——— Community supports
- Developed for desktop with KDE3
 - Linux kernel with *-ck patches*, optimized config, drivers, filesystems, etc.
 - Relatively lightweight, ready for learning and development, e.g. programming, OS, netw.
 - Curated application list for the target program ——— Results from research and considerations
- ShiptIt-like program with private funding
 - Requesters only need to send email +agree to be a "mirror" person
 - Sending CDs to places in Indonesia
 - Enjoyed at first, but apparently felt time consuming :D



* Con Kolivas' patchsets: <http://kernel.kolivas.org/> (Still alive and rocking)





Kuliax 6.0



Storage



Kuliax



Kuliax
Installer



Kuliax^{6.0}
Bringing Linux to Campus

- All Applications
- Development
- Graphics
- Internet
- Multimedia
- Office
- System
- Utilities
- Kuliax
 - Courses
 - Documentation
 - Utilities
- Find Files/Folders
- Home Personal Files
- Actions
 - Run Command...
 - Switch User
 - Lock Session
 - Log Out...

- Database
- Digital and Multiprocessor
- English
- Mathematics and Modelling
- Multimedia and Graphics
- Network and Data Communication
- Operating System
- Programming
- Software Engineering
- Statistics and Data Mining



1	2
3	4

22:28
14/12/2006

Kulix 7.0

- Based on Debian GNU/Linux stable and Debian Live
 - Newer packages from Debian Backports + Maintainers
 - Can be updated/upgraded using Debian repository
- Optimized system for desktop — Similar to Kulix 6.0, generalized
- Custom packages *following Debian packaging*
 - Kulix-specific packages with repository
 - Kulix backport packages from Debian testing/Maintainers/Ubuntu
 - Other packages built from upstream and Debian unstable



debian



Selamat datang di KuliAx 7.0 (lumpia) - Konqueror

Location Edit View Bookmarks Tools Settings Help

Location: /live/ima Google Search

Selamat datang di KuliAx 7.0 (lumpia)

CD-ROM ini adalah LiveCD sekaligus *installer/pemasang* KuliAx 7.0 untuk mesin 686.

KuliAx

KuliAx adalah sebuah distribusi GNU/Linux yang dioptimasi ke penggunaan komputer desktop untuk pembelajaran, penelitian, dan pengembangan di pendidikan tinggi.

KuliAx menyertakan program-program standar komputer desktop dan juga yang spesifik ke pendidikan tinggi khususnya pada bidang-bidang yang banyak menggunakan komputer sebagai alat bantu/penunjang atau bahkan sebagai intinya.

Sebagian besar program yang disertakan di KuliAx di bawah GNU General Public License (GPL), silakan periksa masing-masing paket program untuk mengetahui lisensinya secara rinci.

Informasi tentang KuliAx 7.0 dapat dilihat pada [Catatan Rilis](#).

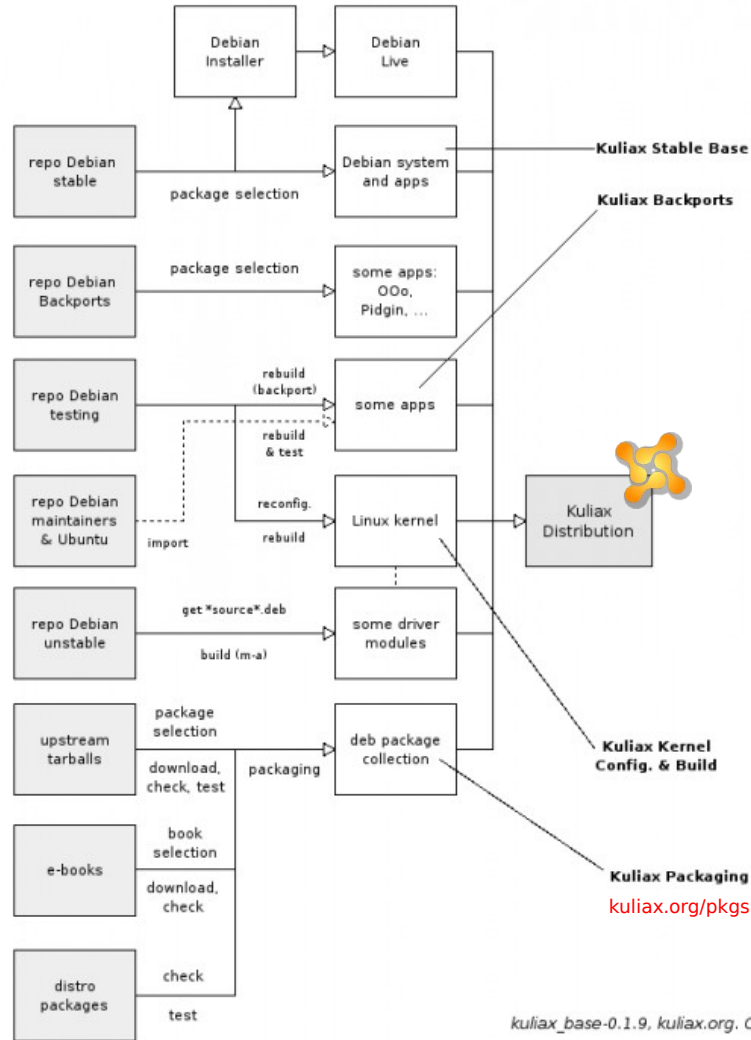
Pemasangan

KuliAx dapat dipasang mandiri atau berdampingan dengan sistem operasi lainnya.

Untuk memasang KuliAx 7.0 dan mendapatkan kinerja yang cukup bagus pengguna membutuhkan spesifikasi komputer:

- Prosesor i686 800 MHz atau lebih tinggi
- RAM 128 MB atau lebih besar

KuliAx



Developers and Contributors

Aji Kisworo Mukti (adzy_maniac)
Akhmad Fathonih (neofreko)
Fahrezal Effendi (exavolt)
Fathir Hamdi (faithtear)
Iwan Setiawan (stwn)

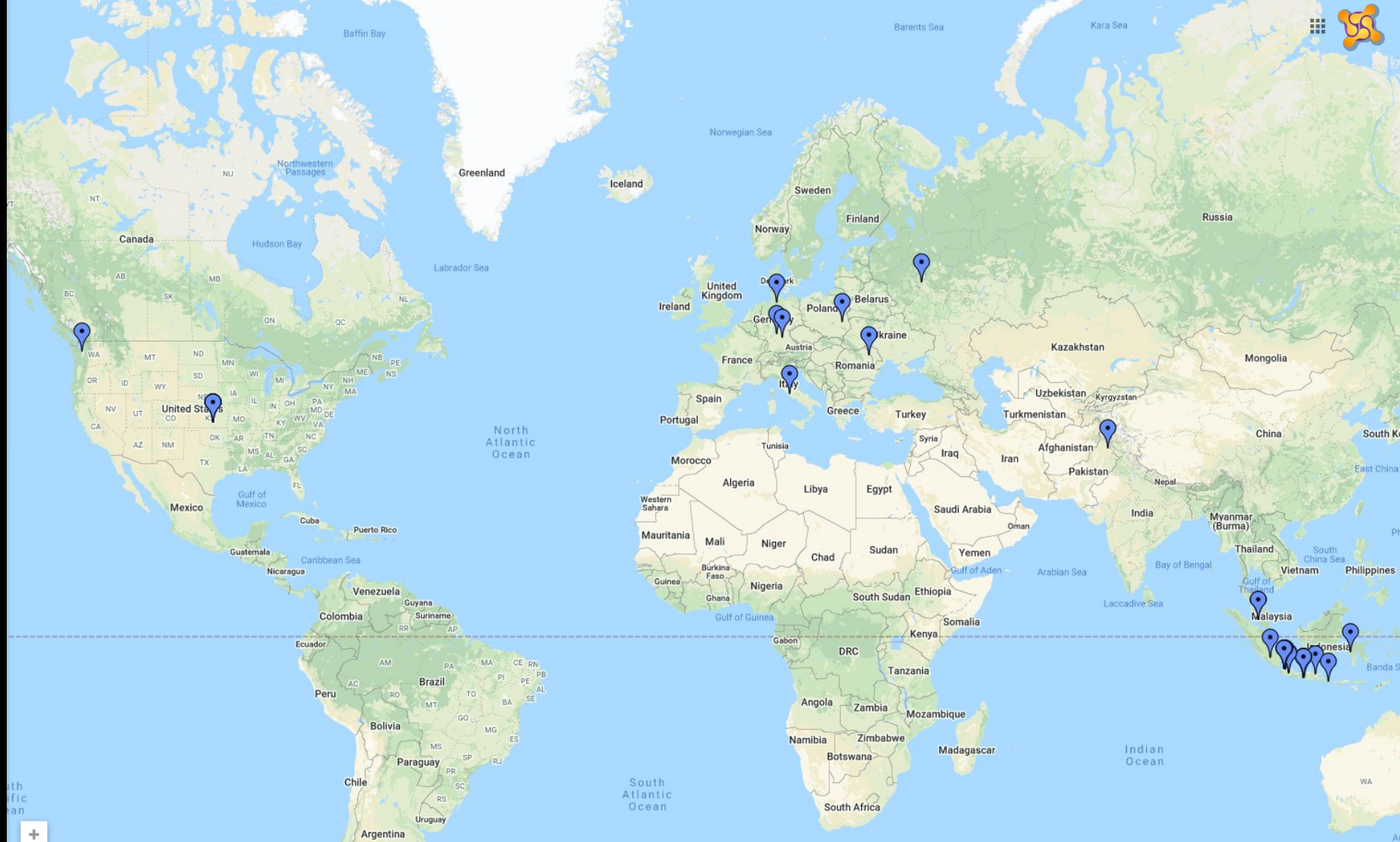
Thanks to:

Baim (aimsfree)
Darmawan Soenaryo (dasoen)
François (oui)

Muhammad Rifqi (masrifqi)
Muhammad Fuad
Nur Agus Suryoko (shadowdancer)
Ucuk Ariyanto Nugroho (ryan_oke)
Yuda Nugrahadi (nugrahadi)

Narpati Wisjnu Ari Pradana (kunderemp)
Tyo Wahyu (etyo)
Zaki Akhmad (za)

<http://kuliix.org/release/7.0/notes>



Contributions

- A GNU/Linux distribution for higher education
- Community education and campaigns
 - ~~Many~~ (invited) talks on FOSS for higher education
 - The farthest places are Pekanbaru and Bali
 - Publications in newspaper/magazines
- Community supports
 - FOSS translation into Indonesian
 - Helping, sponsoring and donation

Most were in Yogyakarta

How you think Open Source apps are maintained



How Open Source apps are really maintained



Challenges

- Founding was fine, maintaining wasn't
- Community is needed for contributors
- Project management is challenging

Current Updates

- No development updates. Stalled, or stale?
 - There were attempts to join the force with other Indonesian distro, particularly *BlankOn*, but no real results
- It seems that.. (Based on googling)
 - Some people are still using KuliAx in *VMs*
 - At least a study program is still using KuliAx in the lab



*Maybe the lab instructions used KuliAx at first,
and haven't got updates yet*



```

Other Linux 2.6.x kernel - VMware Workstation 14 Player (Non-commercial use only)
Shell - Konsole
Session Edit View Bookmarks Settings Help
NPM: 14117910
Kelas: 2KA01
kuliax@kuliax:kuliax$ origin
MENU SEDERHANA
1. Biodata
2. Volume Kerucut
3. Nilai
4. Kelulusan
Input your Option (1 - 4): 2
Input Radius : 10
Input Height : 10
Your Cone Volume is 1047.197632
kuliax@kuliax:kuliax$ origin
MENU SEDERHANA
1. Biodata
2. Volume Kerucut
3. Nilai
4. Kelulusan
Input your Option (1 - 4): 3
Input Nilai : 10
GRADE: E
kuliax@kuliax:kuliax$ origin
MENU SEDERHANA
1. Biodata
2. Volume Kerucut
3. Nilai
4. Kelulusan
Input your Option (1 - 4): 4
Input Nilai : 100
ANDA LULUS!
kuliax@kuliax:kuliax$

```

#Kuliax6 #CProgramming #Labsi
Cara Mengatasi Scanf() Error di OS KULIAX 6.0

161 x ditonton • 31 Mar 2019

👍 0 🗨️ 0 ➡️ BAGIKAN 📌 SIMPAN ...



Raineca DH
76 subscriber

SUBSCRIBE

<https://youtube.com/watch?v=tmalor7iLVo>

Journey Summarized

- It's not easy maintaining free software project
- Good **community**, **management**, and **supports** are needed to make the project *sustained*
- Distro for higher education is still relevant*

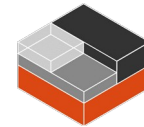
Answering the question

- No, it's not relevant
- **Yes, it's still relevant**
 - Everyone has favorite distros
 - There would be ways to accommodate higher edu needs
 - Easier for the developers?



Virtualized Distros?

- Virtualized environments for learning, research, devel.
- Minimal customization, more on *ready-to-use*
Automate the development?
- Could be started by targeting specific demands (Read: particular classes, use cases, or trends)
 - Classes that need supporting *instant* environments
 - DevOps, SDN, cloud computing, IoT, ...
 - *Documentation and tutorials* are needed



Ex: Download a VM image, load, and run it on VirtualBox

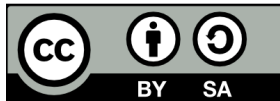
Acknowledgement

- Adi Indrayanto, Rusnoss team, Laboratorium Sistem dan Aplikasi Pusat Mikroelektronika ITB, Ristek, and Kominfo/Postel for the supports and cooperations
- Dept. of Electrical Engineering, Universitas Jenderal Soedirman (Unsoed)
- Lukito Edi Nugroho for advice/suggestions in KuliAx 6.0 development
- PPTIK UGM and Tim UGM Goes Open Source (UGOS) for development and testing infrastructure
- Providers and server administrators for mirroring KuliAx ISO images
- Yan Arief Purwanto for the hosting space
- Free Software/Open Source and Copyleft/CC communities

2020



Terima kasih



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