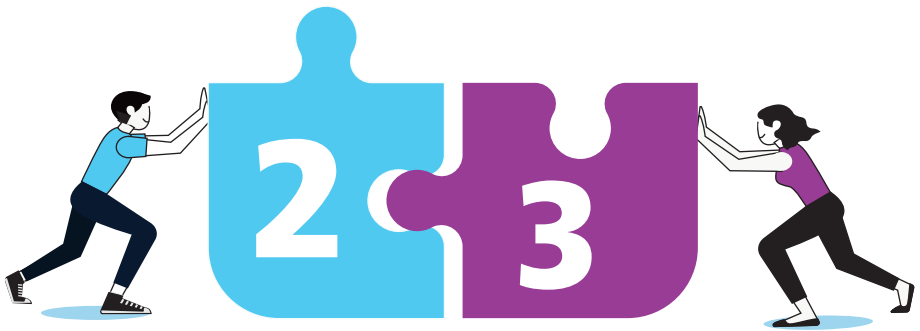# BRUSSELS 4 FEBRUARY - 5 FEBRUARY
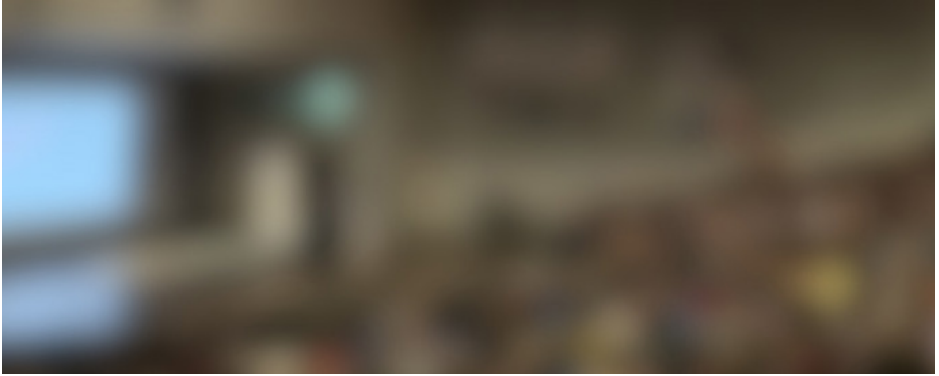

23
FOSDEM.org
back together again

8000+ hackers • 700+ lectures • lightning talks • devrooms • beer

WELCOME TO THE 23RD EDITION OF FOSDEM

INFODESK

In this booklet, you will find useful information about the conference and the venue. If you have any questions, the volunteers at the infodesks will be happy to help you. The main infodesk is located in building K. A secondary infodesk can be found in building H. Staff and volunteers also roam around the campus and can be recognised by their bright yellow and orange T-shirts. There is a handy map on the back of this booklet, pointing out the locations of all buildings, rooms, and the infodesks. They can also be found on nav.fosdem.org.

TABLE OF CONTENTS

FIRST AID

A Red Cross first aid team is present during the weekend. This team is located on the fourth level of the K building (K.4.401).

In an emergency, you can phone the infodesk on +32 2 788 74 74

FRINGE EVENTS

The FOSDEM Fringe consists of independent events involving free and open source software taking place in the days around the FOSDEM weekend. They are organised independently of FOSDEM.

The list of events can be found on the FOSDEM web site at **fosdem.org/2023/fringe**

CODE OF CONDUCT

In order to keep FOSDEM a fun, interesting and positive experience for everybody, we expect participants to follow our guidelines: FOSDEM aims to be a free, open and cooperative event.

This means we expect collaboration from all the FOSDEM participants, and for everybody to behave respectfully towards all others, including those that are different or think differently from themselves.

Please be helpful, considerate, friendly, and respectful towards all other participants and respect the environment. We don't condone harassment or offensive behaviour at our conference. We consider it against our values as human beings.

We're voicing our strong, unequivocal support of exemplary behaviour by all participants. Please remember that all FOSDEM participants are here by invitation of the conference organisers and the ULB.

We expect all participants to follow this Code of Conduct during the conference and related events. This includes conference-related social events at off-site locations, and in related online communities and on social media. Participants asked to stop a particular behaviour by staff are expected to comply immediately. Conference participants violating this Code of Conduct may be expelled from the conference and/or banned from formal participation in future events.

> **Please bring any concerns to the immediate attention of our coordinating team, by phone**
>
> **+32 2 788 74 73 or email conduct@fosdem.org**

Thank you for your help in making FOSDEM a success and pleasant for all the people involved.

VOLUNTEERS SOUGHT

FOSDEM is a conference entirely made by volunteers. While a small crew works on it year-round, most of the work during the conference is done by a large, enthusiastic group of great people who donate their time to make FOSDEM happen - you. And this year is no different - we need your help. Please spare an hour or two to help introduce speakers, run the cloakroom and infodesks or clean up after the event, etc. Just walk up to one of the Infodesks and say you would like to volunteer and we will take care of you or visit **volunteers.fosdem.org**

DONATIONS

FOSDEM is free to attend. The event is organised by volunteers and funded entirely by sponsors, the sale of T-shirts, and individual donations.

In order to keep the event free, we kindly ask you to buy a T-shirt and/ or to make a donation at one of the infodesks. Your donation supports FOSDEM 2023 and future editions. Depending on the amount you donate, you will receive one or more of the following along with our gratitude:

T-shirts and Hoodies are available in **non-fitted and fitted sizes:**
T-shirts: S, M, L, XL, XXL, XXXL. **Hoodies:** S, M, L, XL, XXL.

PRE - ORDERED T-shirts or Hoodies: please take your proof of payment and password to the info desk, in order to receive your garment.

It is not possible to get a refund for any reason.
Donations are not tax-deductible.

	EUR 25,00	EUR 50,00
FOSDEM T-shirt	⚙	
FOSDEM Hoodie		⚙

GENERAL INFORMATION

NETWORK

Best-effort wireless network coverage is available everywhere on campus. To encourage you to support IPv6 in your applications our main "FOSDEM" ESSID does not support IPv4 natively. There are transition measures in place to reach IPv4-only hosts over IPv6 (DNS64 and NAT64). If you cannot live without native legacy IP connectivity for some reason, you can use the dual-stack "FOSDEM-Dualstack" ESSID. Please consider fixing your application or service, though.

ONLINE SCHEDULE

⚙ The full conference schedule is available on our website: **fosdem.org/schedule/**

Check there for amendments or cancellations made after the booklet went to press. You'll also find links to live streams during the event and videos afterwards.

⚙ There are third-party applications for just about every smartphone operating system. Check your respective app store/market or see the list at **fosdem.org/schedule/mobile/**

ACCESSIBILITY

FOSDEM welcomes all free software and open source developers! While we don't own the university campus and have little control over its accessibility, we have tried to find ways for developers with physical limitations to make the most of the event.

All signposted routes (unless indicated otherwise) between buildings are step-free. Whenever that is not the case, the accessible path will be clearly indicated. All rooms have step-free access, except for AW1.121 and AW1.125. In U and K you might need to use a lift to get to the correct floor.

We reserve a limited number of seats at the front of both main track rooms for developers with hearing or visual impairments. We cannot make advance reservations in every developer room, but accommodations can usually be made on the spot.

At nav.fosdem.org, you will find our on-campus route planner. It has an option for avoiding stairs. All routes calculated with this option set should be wheelchair and limited mobility accessible.

The accessible routes and the location of the lifts are not always obvious, but FOSDEM staff and volunteers will be happy to show you around.

More information can be found at **fosdem.org/2023/practical/accessibility/**

LOST ON CAMPUS?

Try our wayfinder at nav.fosdem.org

CLOAKROOM

Do you want to get rid of heavy bags, or are you tired of carrying your coat or umbrella around with you? Store them free of charge at our staffed cloakroom during the event. Simply follow the signs in the K building.

LOST PROPERTY

Lost one of your precious belongings? Found something that looks like someone lost it? Please go to the infodesk in the K building for assistance.

CATERING

There are three places on the campus where you can get food and/or drinks (see the map at the back for the exact locations). The cafeteria in the F building (between K and U) has comfortable seating and serves espresso, breakfast, sandwiches, beer and drinks during the event.

The food court has catering vans offering hot food including vegan food, fries, burgers, hot dogs, pasta, sandwiches, vegetarian wrap and waffles. Most vendors accept cash as well as cards. The catering vans will be located on the square between the F and U buildings. Seating is available in the cafeteria in the F building nearby. In the area surrounding the campus there are many other shops and restaurants where you can get food. **See the surroundings map on page 23-24.**

CASH POINTS

There is a cash point on the campus, just past the main bar near the food stands, but experience shows that it runs out of cash quickly during FOSDEM. An alternative cash point can be found at 466, Chaussée de Boondael.

To get there, leave the top of the campus towards where the buses and trams stop, and continue straight ahead until the third roundabout and turn left there. You will find the cash point on the left side of the street.

DO US A FAVOUR...

GARBAGE & GLASS

Please try to keep the campus clean! Throw your garbage into the bins. If you see a full bin, please let staff, volunteers, or infodesk know.

Glass bottles should be put in the boxes located near some bins or in the designated container near the lower level of the H building. If you see people scavenging bottles, please report them to security, staff, volunteers, or infodesk immediately.

CLEANUP

After FOSDEM is over, we will need to clean up, and quickly. We would greatly appreciate your help. This can be as simple as helping stands carry their equipment, grabbing a broom and cleaning the floors, or lend a hand collecting all of FOSDEM's gear. Simply talk to staff, volunteers, or infodesk.

GETTING AROUND
MEETING PEOPLE AND DOING THINGS

PUBLIC TRANSPORT

The following STIB/MIVB routes call at "ULB"

- **Bus 71 De Brouckère – Delta**
- **Bus 72 ADEPS – ULB**
- **Tram 25 Rogier – Boondael Gare**
- **Tram 94 Louise – Roodebeek**

See the back cover for a map.

TAXI

If you need a taxi, we suggest calling Taxi Verts on +32 2 349 49 49.
The address of the venue is:

**ULB Campus Solbosch
50, Av. Franklin D. Roosevelt
1050 Bruxelles**
The location where taxis expect to pick you up is marked on the map on the back cover.

FREE SHUTTLE BUSES

On Sunday afternoon, FOSDEM provides a free shuttle bus service from the conference venue to Brussels South (Midi) railway station which has a regular service to many popular destinations within Belgium and to surrounding countries.

Five buses will run at roughly 20-minute intervals from Av. Franklin D. Roosevelt (lower side of the campus). The journey takes approximately 20 minutes. Based on previous experience, we expect the buses to be busiest from 17:30 on. The first bus leaves at 15:30. The last departure will be at 19:30. If you don't want to queue, why not leave later? There are plenty of bars in the neighbourhood where you can pass the time!

BOF ROOMS

Small and cosy rooms intended for ad-hoc discussions, meet-ups, or brainstorming sessions. Each seats approximately thirty people. There is deliberately no projector or recording equipment. Reservations are made on a first-come, first-served basis. Signup sheets are available at the infodesk in building H. Directions to the rooms can also be obtained there. We'll update the online schedule to display the bookings several times during the event.

HACKER ROOM

Need a break? Want to spend some quiet time coding? Need to recharge yourself and/or your devices? There is a hacker room where you can sit back and do all that. The hacker room is H.2211 in the upper H building.

ANNOUNCEMENT CORNER

This is the place to be for all sorts of announcements, including adverts and leaflets of software releases, community projects, and so on. Adverts may not be placed anywhere else on campus! Handing out flyers is likewise not allowed. In the "job corner" section, information on employment or contracting opportunities can be found. The corner is in the upper H building. Some common sense rules apply. Everything must be related to FOSS. If in doubt, ask a member of staff.

VIRTUAL TALKS AND LIVE STREAMING

All talks on campus are streamed live and recorded. BOFs are not.

A few developer rooms have scheduled some pre-recorded talks available only online.

Some rooms on the campus are labelled as places to sit (with your own headphones) and watch or interact with the virtual event.

Access the virtual conference at:
live.fosdem.org (streaming)
or
chat.fosdem.org (interaction).

FEEDBACK
How are we doing? Are you enjoying this edition of FOSDEM?
Is there anything we can do to make future events better?

Please take a minute to leave us some feedback at
feedback@fosdem.org

Each talk also has its own feedback link.in the online schedule at:.
fosdem.org/2023/schedule/

DEVELOPER ROOMS

Developer rooms are are assigned to self-organising groups to work together on open source projects, to discuss topics relevant to a broader subset of the community, etc. See nav.fosdem.org on how to get to them.

This year we also provide some online - only content. Learn more at:
https://www.fosdem.org/2023/schedule/buildings/#d

Saturday		Sunday	
Project	**Room**	**Project**	**Room**
-	UA2.114	Binary Tools, Emulator Development	AW1.121
BSD, LLVM	AW1.125	Community	UB5.132
Containers	UB2.252A	Distributions	UA2.114
Continuous Integration and Continuous Deployment	H.1309	Erlang, Elixir and Friends, Haskell	H.1309
Declarative and Minimalistic Computing, Virtualization and IaaS	K.3.201	FOSS Educational Programming Languages, Nix and NixOS	H.2214
Embedded, Mobile and Automotive	UD2.120	Friends of OpenJDK	H.1302
Energy, Railways and Open Transport	AW1.121	HPC, Big Data and Data Science	UD2.120
Fast and Streaming Data	K.4.201	JavaScript	UB5.230
FOSS on Mobile Devices, DNS	UB4.136	Kernel	UA2.220
Go	UD2.218A	Lightning Talks	H.2215
Graph Systems and Algorithms, Collaboration and Content Management	K.4.601	MariaDB, MySQL and Friends	K.3.201
Image-based Linux and Secure Measured Boot, LibreOffice Technology Development Platform	H.1308	Matrix, Real Time Communications	K.3.401
Kotlin	UB5.230	Microkernel and Component-based OS	H.1308
Legal and Policy Issues	UB5.132	Monitoring and Observability	UB2.252A
Lightning Talks	H.2215	Network	H.1301
Mozilla	UA2.220	Open Source Firmware, BMC and Bootloader	K.4.201
Open Media	K.3.401	PostgreSQL	UA2.118
Open Research Tools and Technology	UB4.132	Public Code and Digital Public Goods, Translations	AW1.125
Rust	H.1302	Python	UD2.218A
Security	UA2.118	RISC-V, Confidential Computing	K.4.601
Software Defined Storage	H.2214	Software Bill of Materials	UB4.136
Sovereign Cloud	H.1301	Testing and Automation, Open Source Design	UB4.132

STANDS

Building AW	Building K - level 1	Building K - level 2
Operating Systems	**Group A** **Community Advocacy**	**Desktop Enviroments**
OpenEmbedded + AGL	Eclipse Foundation	GNOME
GNU GRUB	FOSSASIA	KDE
Hardware	Matrix.org Foundation	**Developer Environment**
coreboot/flashrom	Software Freedom Conservancy	GitLab
PINE64	Free Software Foundation Europe	Homebrew
IoT	Realtime Lounge	Jenkins
MicroPython & Espruino	Free Culture Podcasts	The Perl/Raku Foundation
openHAB	Open Culture Foundation + COSCUP	Fluence
Embedded JavaScript: Moddable SDK & Node-RED MCU Edition	Open Toolchain Foundation	**Multimedia and Graphics**
wolfSSL	Open UK and Book Signing Stand	VideoLAN
HAM Radio	The Apache Software Foundation	**World Wide Web**
Infobooth on amateur radio (hamradio)	**Group B** **System administration**	Mozilla
	Ansible	Nextcloud: Self-hosted, open file sync & communication platform
Building H	Grafana	**Education**
Operating Systems	Bareos	La Contre-Voie
AlmaLinux OS	Foreman	IEEE SA Open
Debian	DRLM (Disaster Recovery Linux Manager)	It's time to learn Ada!
Fedora Project	OpenNebula	AlekSIS
CentOS and RDO	**Database engines**	Chamilo
FreeBSD Project	PostgreSQL	Audacity and MuseScore (Saturday) — IsardVDI (Sunday)
Linux on Mobile (Sailfish OS, Ubuntu Touch, postmarketOS, Mobian and more)	MariaDB Server	
openSUSE Project	**Group C** **Office suites and productivity**	
Ubuntu Ecosystem	CiviCRM	
Gentoo	DAVx5 – CalDAV / CardDAV / WebDAV client for Android + jtx Board	
	XWiki & CryptPad	
	Libreoffice	

BUILDING AW
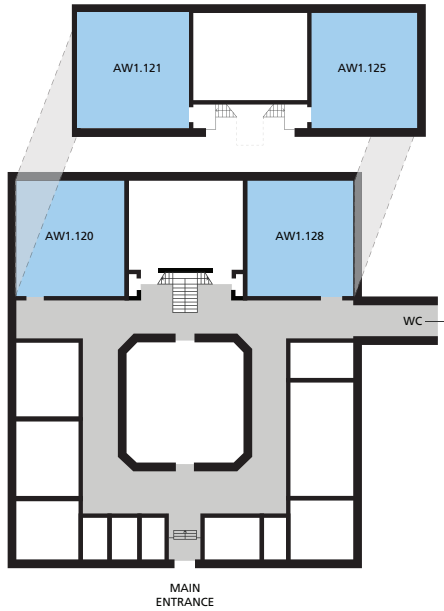
Developer rooms: **Saturday**		Developer rooms: **Sunday**	
Project	**Room**	**Project**	**Room**
Energy, Railways and Open Transport	AW1.121	Binary Tools, Emulator Development	AW1.121
BSD, LLVM	AW1.125	Public Code and Digital Public Goods, Translations	AW1.125

| Stands	
OpenEmbedded + AGL	openHAB
GNU GRUB	Embedded JavaScript: Moddable SDK & Node-RED MCU Edition
coreboot/flashrom	wolfSSL
PINE64	Infobooth on amateur radio (hamradio)
MicroPython & Espruino	

BUILDING K - LEVEL 1
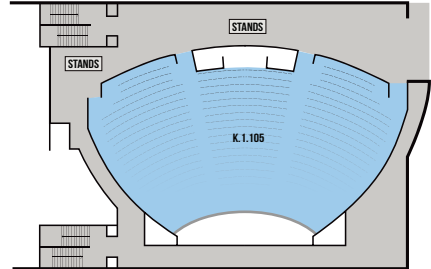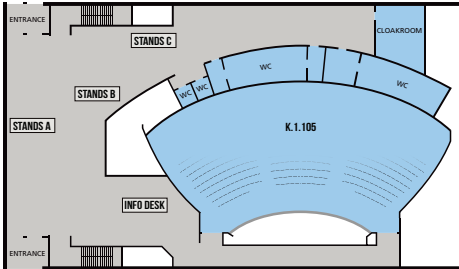
Main tracks: **Saturday**	Main tracks: **Sunday**
K.1.105	K.1.105

Stands A	Stands B	Stands C
Eclipse Foundation	Ansible	CiviCRM
FOSSASIA	Grafana	DAVx5 – CalDAV / CardDAV / WebDAV client for Android + jtx Board
Matrix.org Foundation	Bareos	XWiki & CryptPad
Software Freedom Conservancy	Integration Process Community	Libreoffice
Free Software Foundation Europe	Foreman	
Realtime Lounge	DRLM (Disaster Recovery Linux Manager)	
Free Culture Podcasts	OpenNebula	
Open Culture Foundation + COSCUP	PostgreSQL	
Open Toolchain Foundation	MariaDB Server	
Open UK and Book Signing Stand		
The Apache Software Foundation		

BUILDING K - LEVEL 2, 3 AND 4

The stands are on level 2 of K building
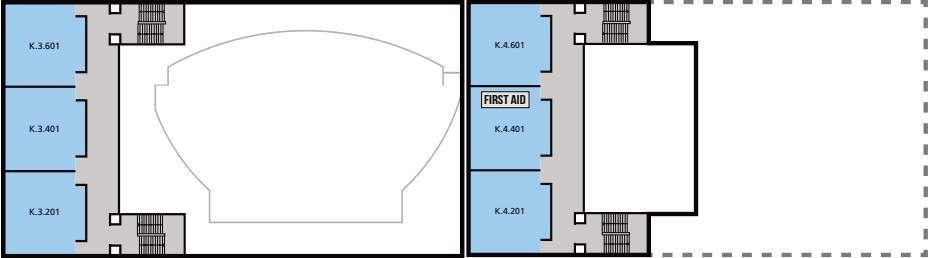
Developer rooms: **Saturday**		Developer rooms: **Sunday**	
Project	**Room**	**Project**	**Room**
Declarative and Minimalistic Computing, Virtualization and IaaS	K.3.201	MariaDB, MySQL and Friends	K.3.201
Open Media	K.3.401	Matrix, Real Time Communications	K.3.401
Graph Systems and Algorithms, Collaboration and Content Management	K.4.601	RISC-V, Confidential Computing	K.4.601
Fast and Streaming Data	K.4.201	Open Source Firmware, BMC and Bootloader	K.4.201

| Stands A	
GNOME	Mozilla
KDE	Nextcloud: Self-hosted, open file sync & communication platform
GitLab	La Contre-Voie
Homebrew	IEEE SA Open
Jenkins	It's time to learn Ada!
The Perl/Raku Foundation	AlekSIS
Fluence	Chamilo
VideoLAN	Audacity and MuseScore (Saturday) — IsardVDI (Sunday)

BUILDING H
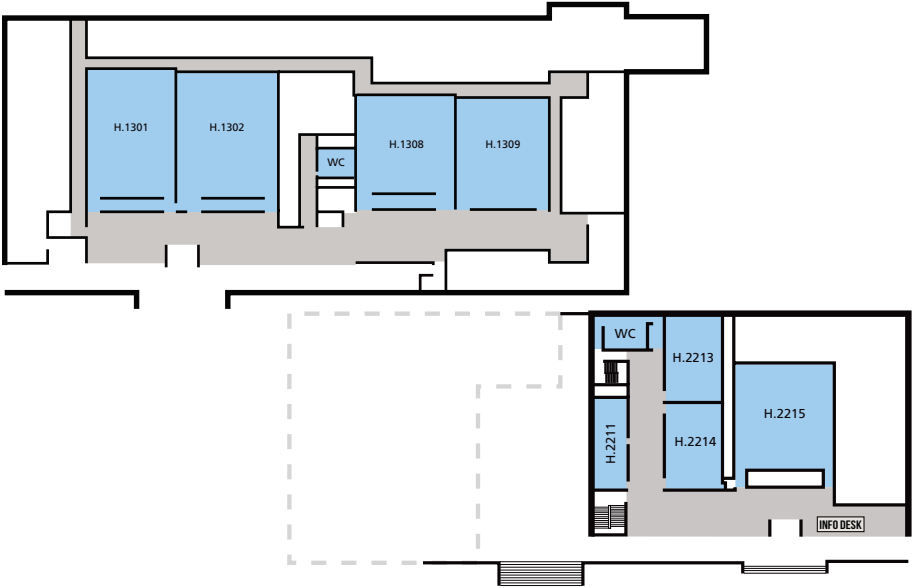
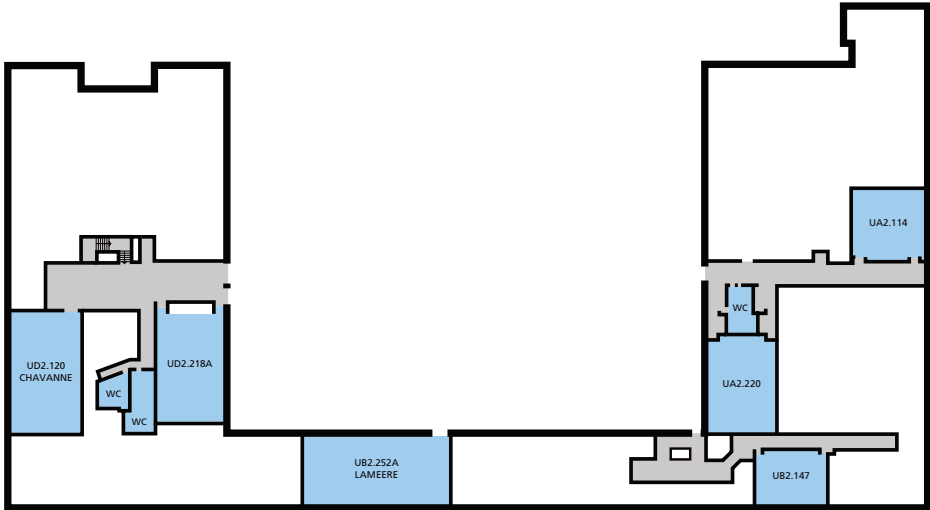| Developer rooms: **Saturday**		Developer rooms: **Sunday**	
Project	**Room**	**Project**	**Room**
Continuous Integration and Continuous Deployment	H.1309	Erlang, Elixir and Friends, Haskell	H.1309
Rust	H.1302	Friends of OpenJDK	H.1302
Lightning Talks	H.2215	Lightning Talks	H.2215
Software Defined Storage	H.2214	FOSS Educational Programming Languages, Nix and NixOS	H.2214
Sovereign Cloud	H.1301	Network	H.1301
Image-based Linux and Secure Measured Boot, LibreOffice Technology Development Platform	H.1308	Microkernel and Component-based OS	H.1308

Stands		
AlmaLinux OS	CentOS and RDO	openSUSE Project
Debian	FreeBSD Project	Ubuntu Ecosystem
Fedora Project	Linux on Mobile (Sailfish OS, Ubuntu Touch, postmarketOS, Mobian and more)	Gentoo

BUILDING J

To building K

WC   WC

To building H

J1.
106
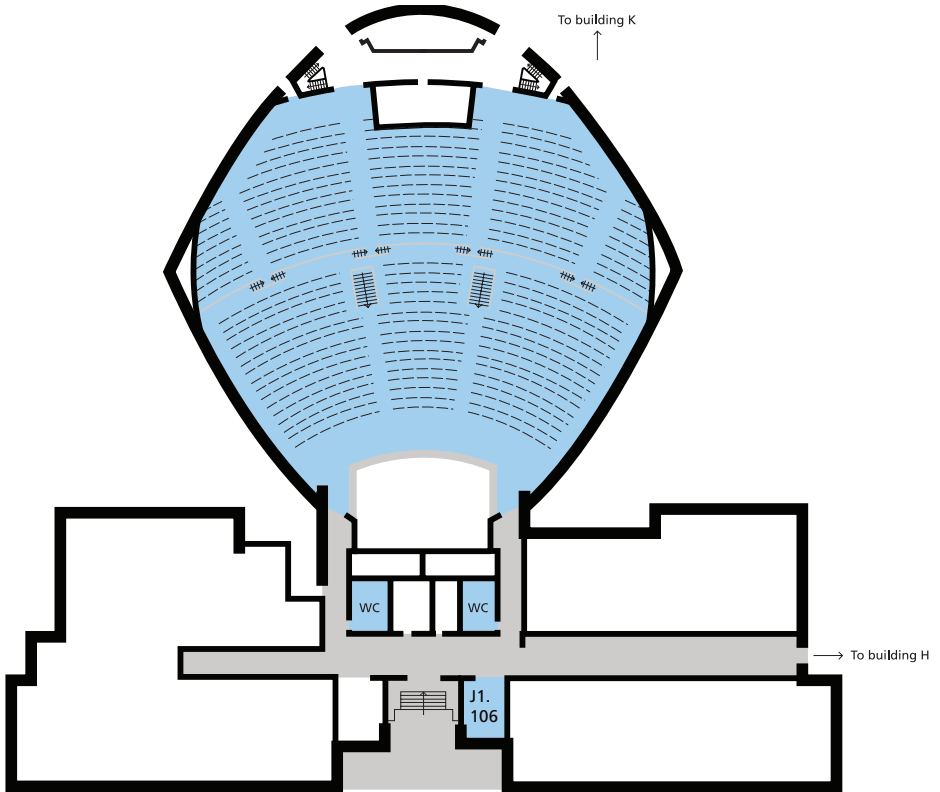
Main tracks: **Saturday**	Main tracks: **Sunday**
Keynotes	Keynotes
Main Track	Main Track

BUILDING U

Developer rooms: **Saturday**		Developer rooms: **Sunday**	
Project	**Room**	**Project**	**Room**
	UA2.114	Distributions	UA2.114
Security	UA2.118	PostgreSQL	UA2.118
Mozilla	UA2.220	Kernel	UA2.220
Containers	UB2.252A	Monitoring and Observability	UB2.252A
Open Research Tools and Technology	UB4.132	Testing and Automation, Open Source Design	UB4.132
FOSS on Mobile Devices, DNS	UB4.136	Software Bill of Materials	UB4.136
Legal and Policy Issues	UB5.132	Community	UB5.132
Kotlin	UB5.230	JavaScript	UB5.230
Embedded, Mobile and Automotive	UD2.120	HPC, Big Data and Data Science	UD2.120
Go	UD2.218A	Python	UD2.218A

CORNERSTONE SPONSORS

Google believes that open source is good for everyone. By being open and freely available, it enables and encourages collaboration and the development of technology.

Google has supported open source communities by bringing new contributors into the ecosystem through Google Summer of Code since 2005.

⚙ Learn more at opensource.google
⚙ Google supports the event financially.

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies.

Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments.

Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

⚙ Learn more at www.redhat.com
⚙ Red Hat supports the event financially.

MAIN SPONSORS

arm

Arm technology is at the heart of a computing and connectivity revolution that is transforming the way people live and businesses operate. Our advanced, energy-efficient processor designs have enabled intelligent computing in more than 125 billion chips. Over 70% of the world's population are using Arm technology, which is securely powering products from the sensor to the smartphone to the supercomputer. This technology combined with our IoT software and device management platform enables customers to derive real business value from their connected devices. Together with our 1,000+ technology partners we are at the forefront of designing, securing and managing all areas of compute from the chip to the cloud.

⚙ Learn more at www.arm.com

⚙ Arm supports the event financially.

CISCO

Cisco enables people to make powerful connections - whether in business, education, philanthropy, or creativity. Cisco hardware, software, and service offerings are used to create the Internet solutions that make networks possible - providing easy access to information anywhere, at any time.

Cisco was founded in 1984 by a small group of computer scientists from Stanford University. Since the company's inception, Cisco engineers have been leaders in the development of Internet Protocol (IP)-based networking technologies.

Today, with more than 67,000 employees worldwide, this tradition of innovation continues with industry-leading products and solutions in the company's core development areas of routing and switching, as well as in advanced technologies such as Application Networking, Data Center, Digital Media, IPICS, Mobility, Security, Storage Networking, TelePresence, Unified Communications, Video and Virtualization.

⚙ Learn more at: www.cisco.com

⚙ Cisco provides all of our WLAN hardware and helps us setting up the wireless network

CLOUD NATIVE COMPUTING FOUNDATION

The Cloud Native Computing Foundation (CNCF) is an open source software foundation dedicated to making cloud native computing universal and sustainable. Cloud native computing uses an open source software stack to deploy applications as microservices, packaging each part into its own container, and dynamically orchestrating those containers to optimize resource utilization. We host and nurture components of cloud native software stacks, including Kubernetes, Envoy and Prometheus.

- ⚙ The Cloud Native Computing Foundation (CNCF) supports the event financially.
- ⚙ Learn more at: www.cncf.io

Codethink

Codethink specialises in system-level software engineering to enable advanced technical applications, working across a range of industries including finance, automotive, telecoms and medical. As experts in Free and Open Source Software, they help customers take maximum advantage of the knowledge and technologies developed by the Open Source community. Their customers are international-scale organizations who seek competitive edge through design of enterprise appliances and embedded systems which are faster, smaller, more secure, more up-to-date, or more advanced than their competitors.

- ⚙ Codethink supports the event financially.
- ⚙ Learn more at www.codethink.co.uk

colt

Colt provides network, voice, and data centre services to thousands of businesses around the world,

allowing them to focus on delivering their business goals instead of the underlying infrastructure. Customers include 18 of the top 25 banks and diversified financial groups and 19 out of the top 25 companies in both global

media and telecoms industries (Forbes 2000 list, 2014).

In addition, Colt works with over 50 exchange venues and 13 European central banks. Colt operates across Europe, Asia and North America with connections into over 200 cities globally. It completed the acquisition of KVH in 2014, an integrated managed communications and IT infrastructure services business, with headquarters in Tokyo and operations in Hong Kong, Seoul and Singapore.

- ⚙ Colt sponsors the internet uplink at FOSDEM.
- ⚙ Learn more at www.colt.net

dstny

We at **Dstny** are a European leader and innovator in secure cloud communications, based on our powerful UCaaS offer and technology. Over 2 million business users are empowered to communicate, collaborate, and provide excellent customer service with our tools at hand. We enable service providers, partners, and end-users as well as 3rd party services to thrive in our ecosystem. With headquarters in Brussels, we have more than 700 employees in 7 European countries and an annual turnover of close to €190 million in 2021.

- ⚙ Dstny sponsors an internet uplink at FOSDEM.
- ⚙ Learn more at: www.dstny.com

element

Element is an open source messaging and collaboration platform.

We give people and organisations back their digital sovereignty by decentralising conversations, letting you host yourself or through a hosting provider such as Element Matrix Services.

Element is built on Matrix - an open network for secure, decentralised communication - for easy connectivity with any of the 44M addressable users on the public Matrix network. Additional privacy is provided by end-to-end encryption, protecting instant messaging, 1:1 voice and video calls, and file sharing.

Element was founded by the team behind Matrix as a way to bring it to the mainstream.

⚙ Learn more at: element.io
⚙ Element provides the chat infrastructure.

HUAWEI

Huawei is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. Through open collaboration and innovation, we help promote and protect unified global standards, establish industry and ecosystem alliances, support global open source projects, and drive breakthroughs in key technologies. We need to pool, create, and share resources across the entire industry. Together with industry partners worldwide, we are building an open, global ecosystem that will help the ICT sector to develop more sustainably.

Huawei's mission is to bring digital to every person, home and organization for a fully connected, intelligent world. We have approximately 197,000 employees and we operate in over 170 countries and regions, serving more than three billion people around the world.

⚙ Learn more at: www.huawei.com
⚙ Huawei supports the event financially.

intel.

Intel tech is being used around the world to inspire, innovate and move humanity forward. People are driving global change using Intel tech to shape the future. Intel supports hundreds of open source projects with code contributions, sponsorships, and a worldwide community network.

We are committed to building an open ecosystem that's transparent, secure, and accessible to all.

⚙ Learn more at: www.intel.com
⚙ Intel supports the event financially.

ISC is a non-profit that develops software and offers services in support of the Internet infrastructure. We believe that open source protects the Internet from being overtaken by businesses or governments who may not have the world's interests at heart. It is essential for individuals and organizations to have open source options for their critical Internet functions.

ISC develops and distributes three open source Internet networking software packages: BIND 9, ISC DHCP, and Kea DHCP. In addition to our open source software, ISC also operates critical Internet infrastructure in the form of the F-Root server, one of the 13 Internet root name servers that power the global Internet. ISC's work is supported by the sale of software support contracts, keeping us focused on the needs of our users.

⚙ ISC supports the event financially.
⚙ Learn more at: isc.org

First released in 2008, **OpenNebula** has become the only European open source technology for cloud-edge orchestration and management, supporting both virtual machines and Kubernetes clusters. OpenNebula Systems was born in 2010 in order to provide professional support to corporate users and sustain the development of the project in the long term. With more than 5,000 organizations running an OpenNebula cloud worldwide, OpenNebula Systems helps organizations from many different sectors to adopt a vendor-neutral, multi-provider approach for building their private, public, and hybrid clouds.

OpenNebula Systems is headquartered in Madrid (Spain) but became a full-remote company in 2021, hosting a growing, global team of open source enthusiasts. Apart from being a corporate member of the Linux Foundation, the CNCF, and Gaia-X, OpenNebula Systems plays a key role in shaping Europe's next-generation edge cloud, chairing the Cloud/Edge Working Group of the "European Alliance for Industrial Data, Edge and Cloud" while coordinating the actions and EU-funded projects launched by the SovereignEdge. EU initiative.

⚙ Learn more at: opennebula.io.
⚙ OpenNebula supports the event financially.

The Université Libre de Bruxelles (or ULB) is a French-speaking university in Brussels, Belgium. It has about 20,000 students. The ULB very substantially supports the event by providing us with the location as well as infrastructure on-site.

⚙ Learn more at www.ulb.ac.be

A SPECIAL THANKS TO ...!

Cercle Informatique, ULB
The "Cercle Informatique ULB" is a group of students who help us book ULB rooms for use during FOSDEM. They also provide part of the catering during the event, the proceeds of which go towards funding their own academic activities.

The **FOSDEM Team** spends a lot of free time throughout the year organising this great event. Without them there would be no FOSDEM.

The **Devroom organisers** who spend a lot of time preparing their devroom in the months leading up to FOSDEM. It would be a much smaller conference without them.

The many **Volunteers** who sometimes join at the last minute, help in various ways to make sure that all runs smoothly and the event is a huge success.

The **ULB** for allowing us to use their Campus. They have been a great partner for over 20 years.

HELP US MAKE FOSDEM BETTER

Write a note and drop it in the feedback box at the Infodesk on your way out. Alternatively, send an email to **feedback@fosdem.org**.

You can also give feedback on any individual talk by following the link near the bottom of its page in the online schedule at **fosdem.org/schedule/**

Supermarket
Saturday 08:00–20:00
Sunday 08:00–20:00

Bank
+ATM

ATM

CHAUSSÉE DE BOONDAEL

Bakery

Pharmacy
Saturday 09:00–17:00

Supermarket
Saturday 08:00–20:00

AV. DE L'UNIVERSITÉ

Supermarket
Saturday 08:00–20:00
Sunday 08:00–13:00

Spirits, wine and tobacco
Saturday 10:00–18:00

Chicken fast food
Saturday & Sunday

AV. GÉNÉRAL MÉDECIN DERACHE

Print shop
Saturday 10:00–18:00

AV. DE L'UNIVERSITÉ
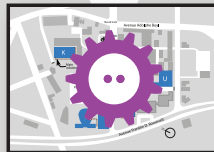
Tobacco
Saturday 08:00–18:00

Pharmacy
Saturday 09:30–13:00

AV. ARMAND HUYSMANS

Bus

AV. ADOLPHE BUYL   Tram

FOSDEM

100 metres   ● Food

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AV. FRANKLIN D. ROOSEVELT

SEE YOU NEXT YEAR

AVENUE FRANKLIN ROOSEVELT

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