



# Welcome to the FOSDEM 2025 LLVM dev room!

Organizers:  
Marius Brehler, Peter Smith, Kristof Beyls



# A bit of history

- This is the 11th LLVM dev room.
- First one in 2014; only skipped 2021

A few different organizers over the years:

Renato, Sylvestre, Arnaud, Peter, Kristof, Kiran, Marius, and more

- Second time we're running back-to-back with GCC dev room!

# Participating/Contributing/starting with LLVM

calendar@llvm.org

Vandaag < > Februari 2025 Maand						
ZO 26	MA 27 ◦ 18:00 LLVM Poi	DI 28	WO 29 ◦ 15:00 OpenMP ◦ 16:30 Flang Biw nog 2	DO 30 ◦ 16:00 RISC-V LI ◦ 16:00 RISC-V LI nog 2	VR 31	ZA 1 feb ◦ 09:30 FOSDEM
2	3 ◦ 16:30 FW: Flang ◦ 17:00 MLIR C/C ◦ 18:30 MemoryS	4	5 ◦ 15:00 LLVM/Off ◦ 15:30 classic fl nog 4	6 ◦ 16:00 OpenMP ◦ 17:00 MLIR Ope ◦ 18:00 HLSL Wor	7 ◦ 14:00 Renato' L ◦ 16:00 LLVM ML ◦ 16:00 LLVM ML	8
9	10 ◦ 15:00 Aaron Ba ◦ 17:30 Office ho nog 3	11 ◦ 17:30 Alina Sbir	12 ◦ 08:30 Kristof B ◦ 15:00 OpenMP nog 4	13 ◦ 16:00 RISC-V LI ◦ 16:00 RISC-V LI nog 2	14	15
16	17 ◦ 16:30 FW: Flang	18 ◦ 16:00 Vectorize ◦ 17:30 Libc++ Mc ◦ 19:00 LLVM Sec	19 ◦ 00:30 Office hc ◦ 15:00 LLVM/Off nog 5	20 ◦ 16:00 OpenMP ◦ 17:00 MLIR Ope	21 ◦ 15:00 Aaron Ba ◦ 19:00 Aaron Ba	22
23	24 ◦ 18:00 LLVM Poi	25	26 ◦ 08:30 Kristof B ◦ 15:00 OpenMP nog 4	27 ◦ 16:00 RISC-V LI ◦ 16:00 RISC-V LI nog 2	28	1 mrt

- [Discourse \(forum\)](#), [Discord \(interactive chat\)](#)
- [Office hours](#), [Online sync-ups](#), [community calendar](#)
- [Getting started issues](#) (183 open today)
- <https://llvm.org/docs/GettingInvolved.html>
- GSoC, Outreachy
- [Companies hiring](#)

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<https://fosdem.org/2025/schedule/track/llvm/>

## Saturday

Welcome to the LLVM dev room	Kristof Beyls, Peter Smith, Marius Brehler	10:30	10:35
A New Approach to Callee-Saved Registers in LLVM	Mikhail Gudim	10:35	11:00
Moving work into the middle end	Jon Chesterfield	11:05	11:25
Improving compile-time computation of object size	Serge « sans paille » Guelton	11:30	11:50
O_o [ Flang + WASM ] o_O	Serge « sans paille » Guelton	11:50	11:55
Things are coming together for Flang tooling	Tim Heldmann, Peter Arzt	12:00	12:20
An introduction to Torch-MLIR	Marius Brehler	12:25	12:45
MLIR-based Data Tiling and Packing for Ryzen AI NPU	Jorn Tuyls	12:50	13:10
An introduction to building and using LLVM libc	Peter Smith	13:15	13:40
Programming is fun; Testing is needed; Infra is ...	Jan-Patrick Lehr	13:45	14:05
Profile-Guided Optimization (PGO) in LLVM: current challenges from the adopter perspective	Alexander Zaitsev	14:10	14:30

# Remote people can also ask questions: see chat room links

## Welcome to the LLVM dev room

A word of welcome by the LLVM Dev room organizers.

### Speakers



Kristof Beyls



Peter Smith

Marius Brehler

### Links

- [Chat room\(web\)](#)
- [Chat room\(app\)](#)
- [Submit Feedback](#)