

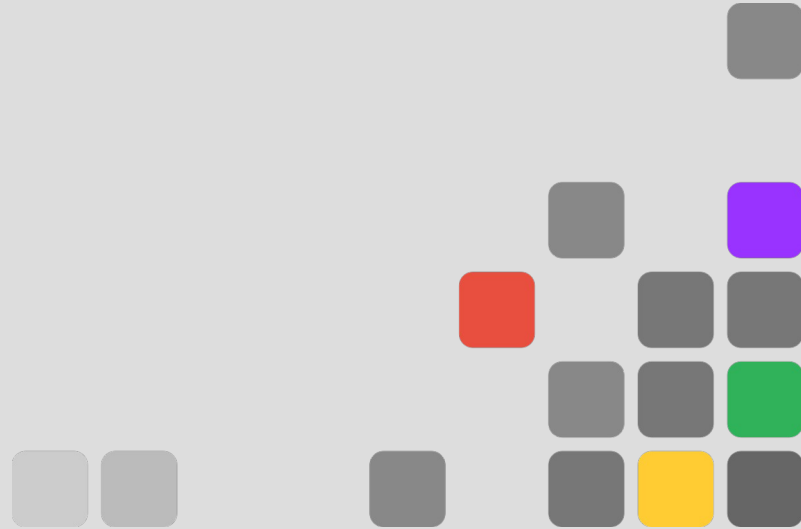
A decorative border composed of a grid of squares in various shades of gray, with a few squares highlighted in purple, green, and yellow.

Streaming and Edit Conference Videos with **OBS**, **Jitsi** and **kdenlive**

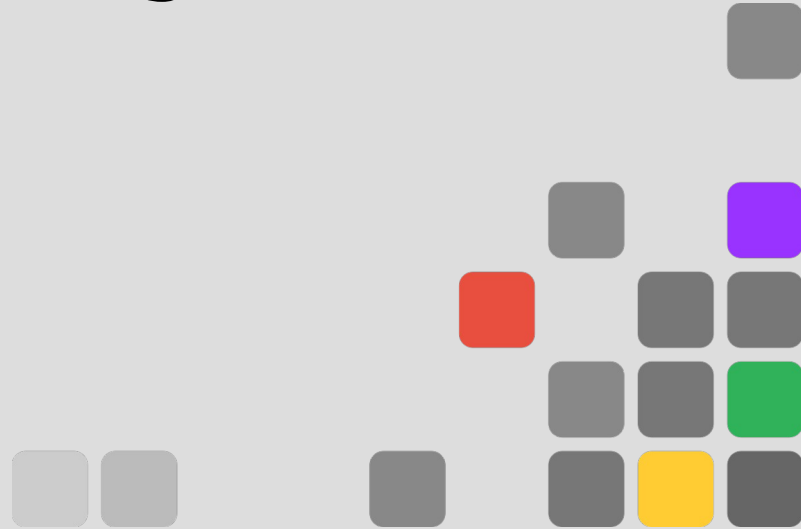
Johan Thelin // fosdem // February 2022

Agenda

- Introduction and background
- The Pre-COVID setup
- 2020...
- The virtual setup
- Summary
- Q&A



Introduction and Background



Bio

- Johan Thelin
- Koderize and Eperoto
- Arranges foss-north
- Conference and Pod
- Qt, Linux, Automotive, Licensing, Start-ups

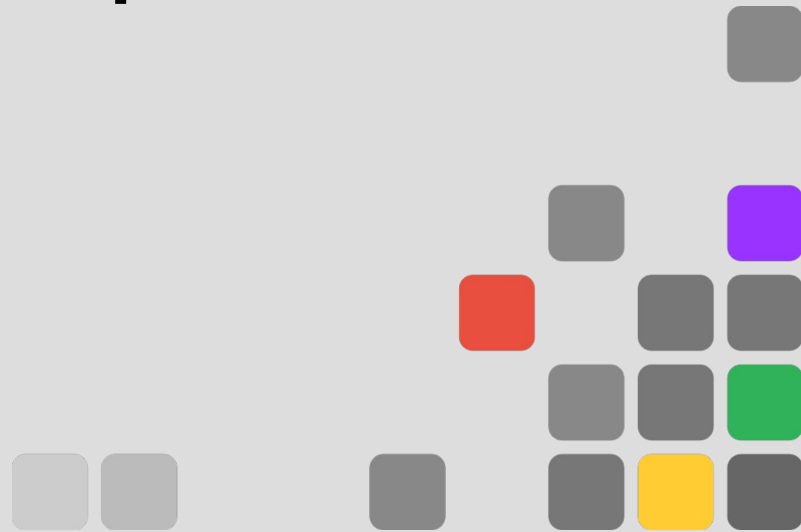


foss-north

- Conference focused on FOSS
- Annually since 2016
- Gothenburg
- Of course you should visit!



Pre-COVID Setup



2016 – 2019, 2023 –

- Physical event
- Recording with multiple cameras
- Recording audio separately
- Separate screen recording

The action cam

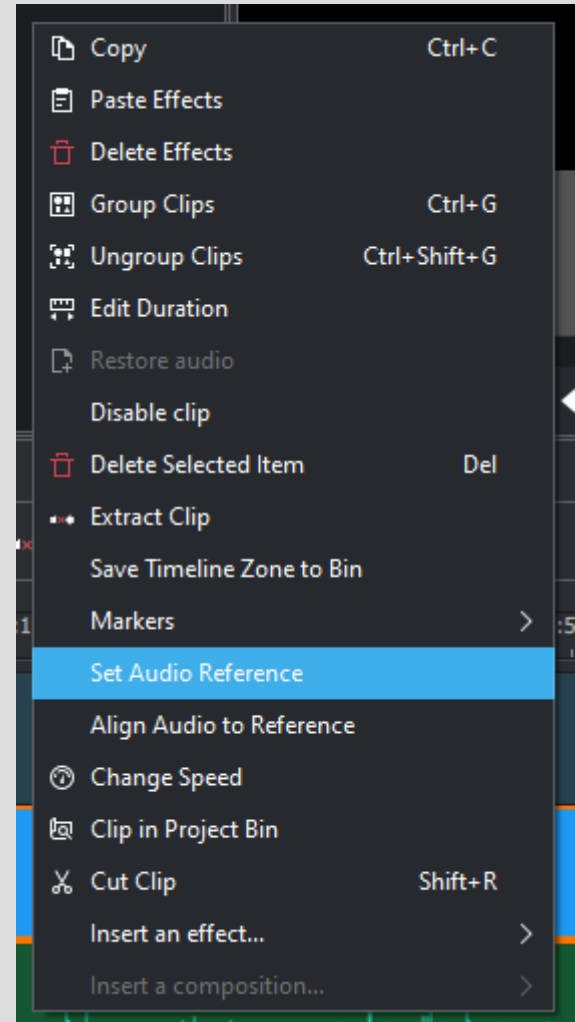
- Fish-eye lens videos
- Kdenlive can transform these videos back to a "flat" look
- And I'm a bit of a Qt/KDE person :-)



Syncing Audio

- Multiple audio tracks
 - One from the video recording
 - One from the speaker mic

- Zoom H5



Intro and Exit

Luxoft
A DXC Technology Company

Red Hat
Ansible
Automation

ENDIAN
TECHNOLOGIES

SYLOG

data:respons

SEMCON

b3

WhiteSource

kafit

embark

SYNERGY
DATA MANAGEMENT

Functional Programming with JavaScript

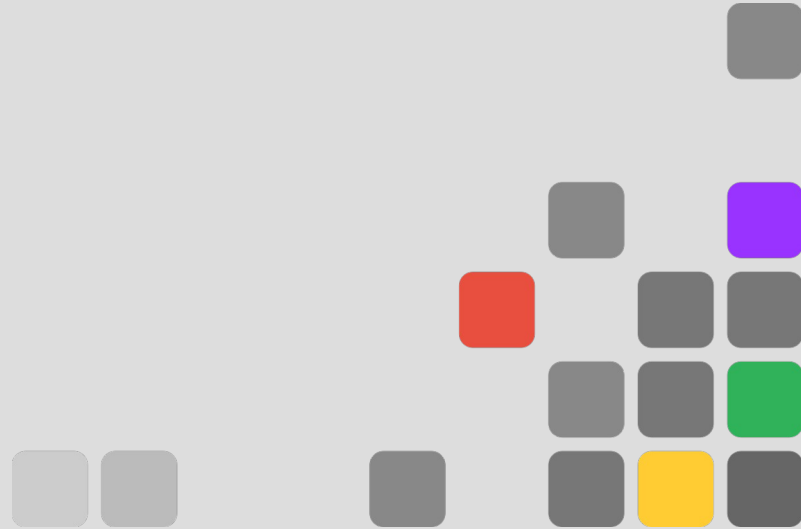
Simon Painter

March 30 10.00 – 11.00

subscribe

[@fossnorth](https://twitter.com/fossnorth)
foss-north.se

2020...



We **really** had to scramble...

Goals

- Live stream
- Publish recordings for after the event
- Live talk
- Q&A

Where we ended up

- Live stream 
- Publish recordings for after the event



- Live talk



- Q&A

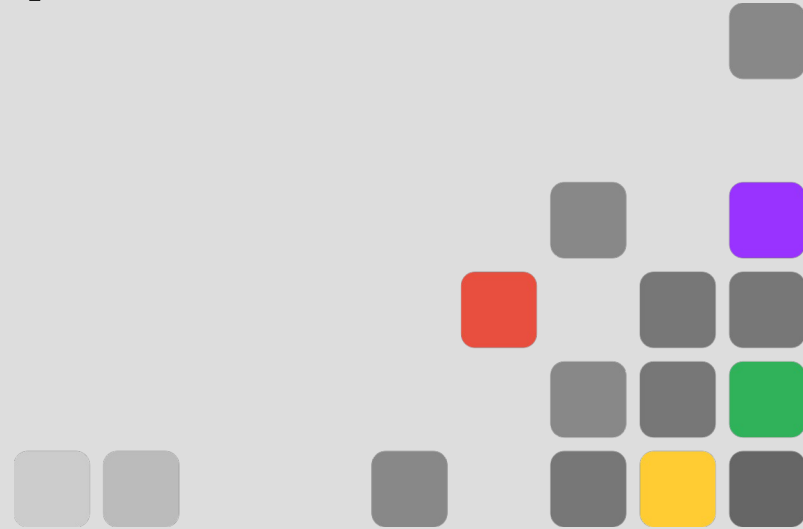


For the recordings

- OBS as the spider in the web
- Recordings from YT as well as Zoom
- Cutting into pieces, fixing the QA
- Adding intro / exit
- Upload to YT, import into peertube

But this is not very open...

Virtual Setup

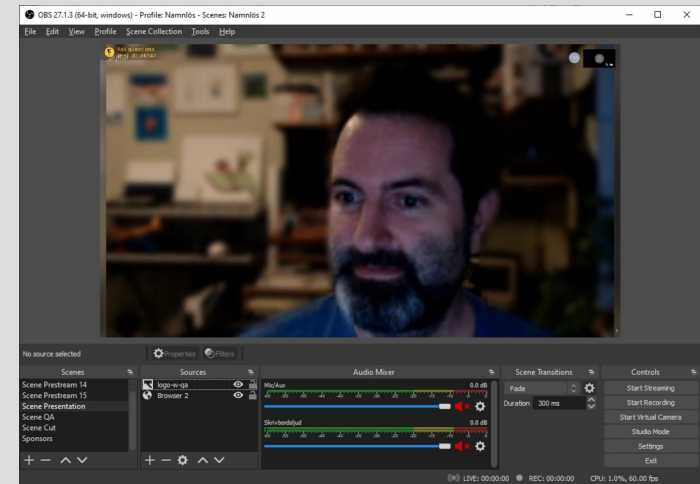
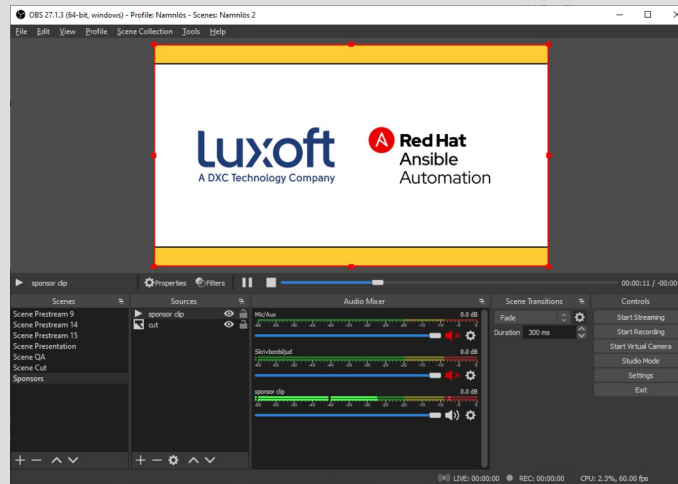
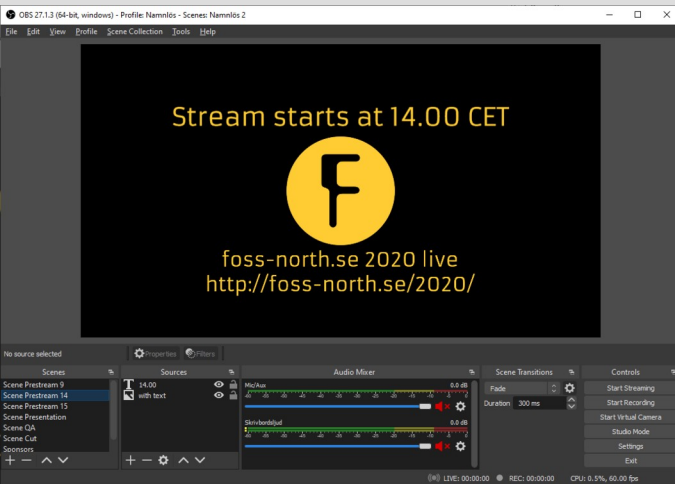


How the show is run

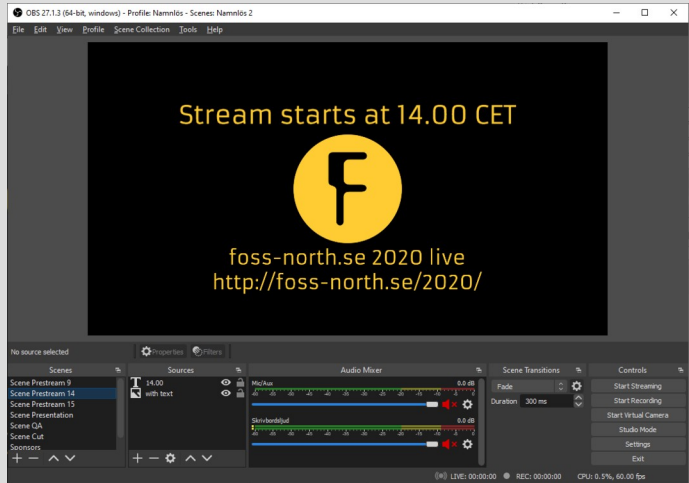
- Speaker joins a Jitsi meeting
- Q&A facilitator monitors YT comments
- Broadcaster decides what to show to YT
- Can interact behind the scenes



The OBS Scenes

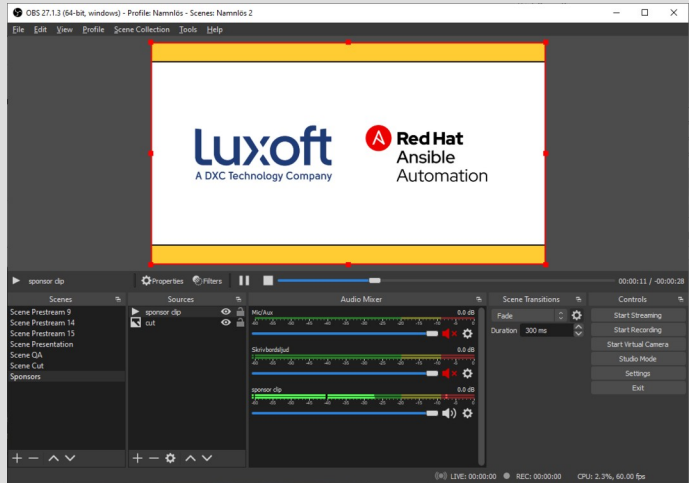


The OBS Scenes



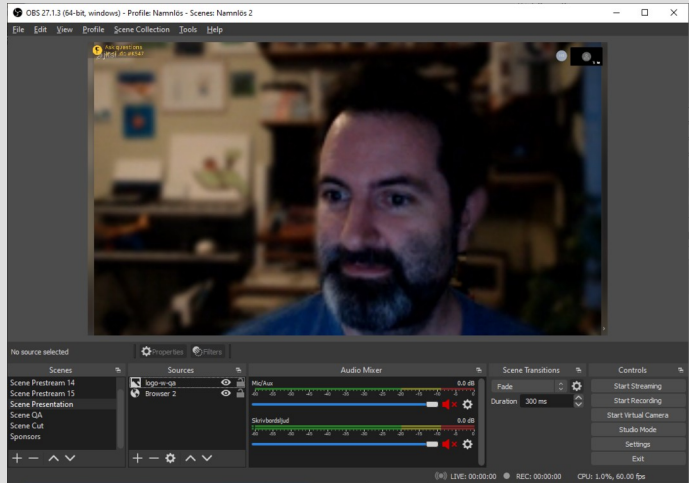
- Still pictures
- All session times
- We'll be right back
- Plain logo

The OBS Scenes



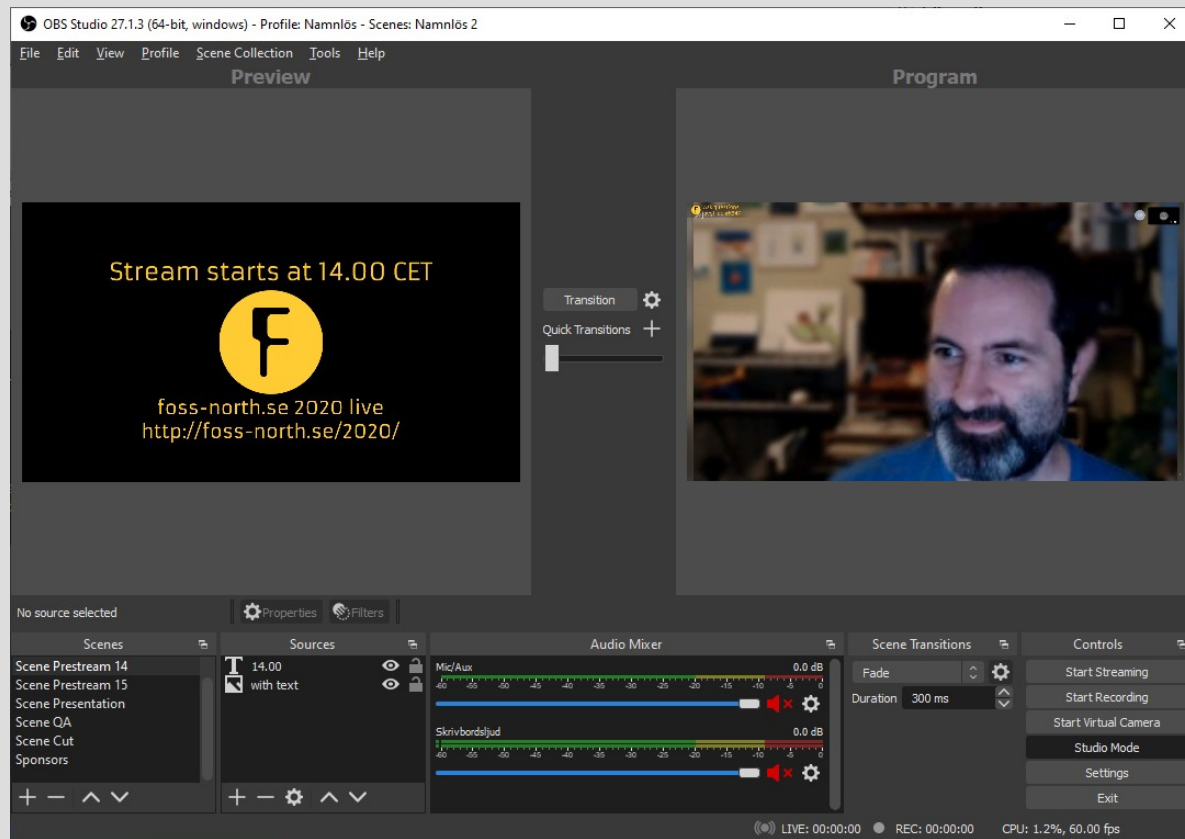
- Pre-recorded videos
- Intro
- Exit
- Some speakers
 - We see a shift here...

The OBS Scenes



- The browser plugin
- As a participant in a Jitsi meeting

The Studio Mode



Jitsi

- Broadcaster + Q&A facilitator + speaker
- ... and OBS
- The speaker only sees a Jitsi meeting

Juggling Audio

- Can mute / unmute in Jitsi
- Can mute / unmute in OBS
- Speaker and broadcaster can...
 - ...speak to speaker alone
 - ...speak to audience alone
 - ...speak together privately
 - ...speak together to audience

Saving recordings

- Saved by YT
- Saved locally at broadcaster machine
- We don't use the Jitsi server side recording due to being complex to setup

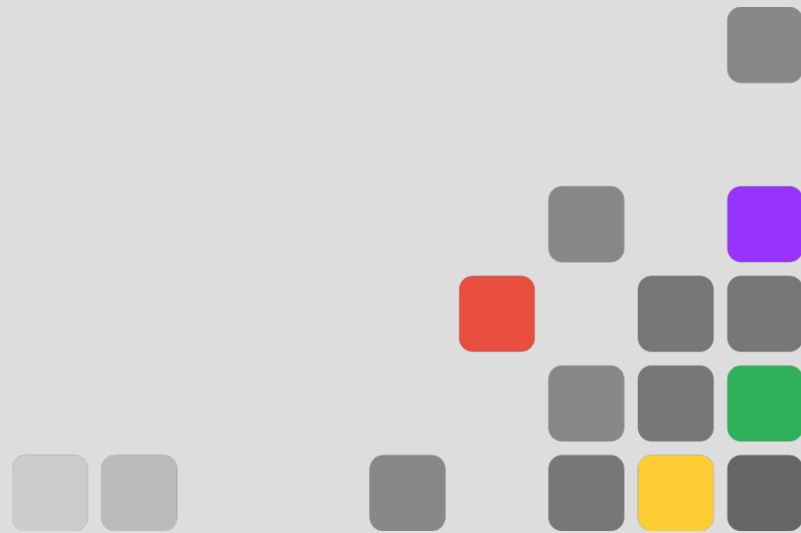
Possible Improvements

- OBS for Debian does not package the Browser module (bug #956086)
- Hard to communicate time and issues to speaker without intervening with talk
- Live streaming via peertube
- We still use auphonic for audio processing

Alternatives

- Big Blue Button
 - Nice as a speaker – see the slides + Q&A
 - Complex to setup last time we checked

Summary



Resources

- Repository trying to show alternatives and setups
 - <https://github.com/e8johan/virtual-conf-resources>
- Tools
 - OBS – <https://obsproject.com/>
 - Jitsi – <https://jitsi.org/> (has a Debian package – yay!)
 - Conf.tube / peertube – <https://conf.tube/> / <https://joinpeertube.org/>
 - Kdenlive – <https://kdenlive.org/>
- foss-north
 - <https://foss-north.se/>

Thank you!

Q&A

