

Liquidshop 5

Where we at with liquidsoap!

Romain Beauxis, June 11, 2025

Le Programme

Le Programme

- What happened since liquidshop 4?

Le Programme

- What happened since liquidshop 4?
- Roadmap

Le Programme

- What happened since liquidshop 4?
- Roadmap
- Questions?

Liquidsoap 2.3.x roadmap

- Rewrite the streaming loop
- Rewrite the clock implementation
- Take advantage of OCaml 5 concurrency
- Address standard library performance issues
- Add developer tooling: linter/prettier, syntax highlighting, etc.
- Release liquidsoap 2.3.x
- Update the liquidsoap book

Liquidsoap 2.3.x roadmap

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Liquidsoap 2.3.x release!

- November 26, 2024: Release 2.3.0 🥳
- February 5, 2025: First bug fix release: 2.3.1
- April 2, 2025: Second bug fix release: 2.3.2
- May 16, 2025: Third bug fix release: 2.3.3

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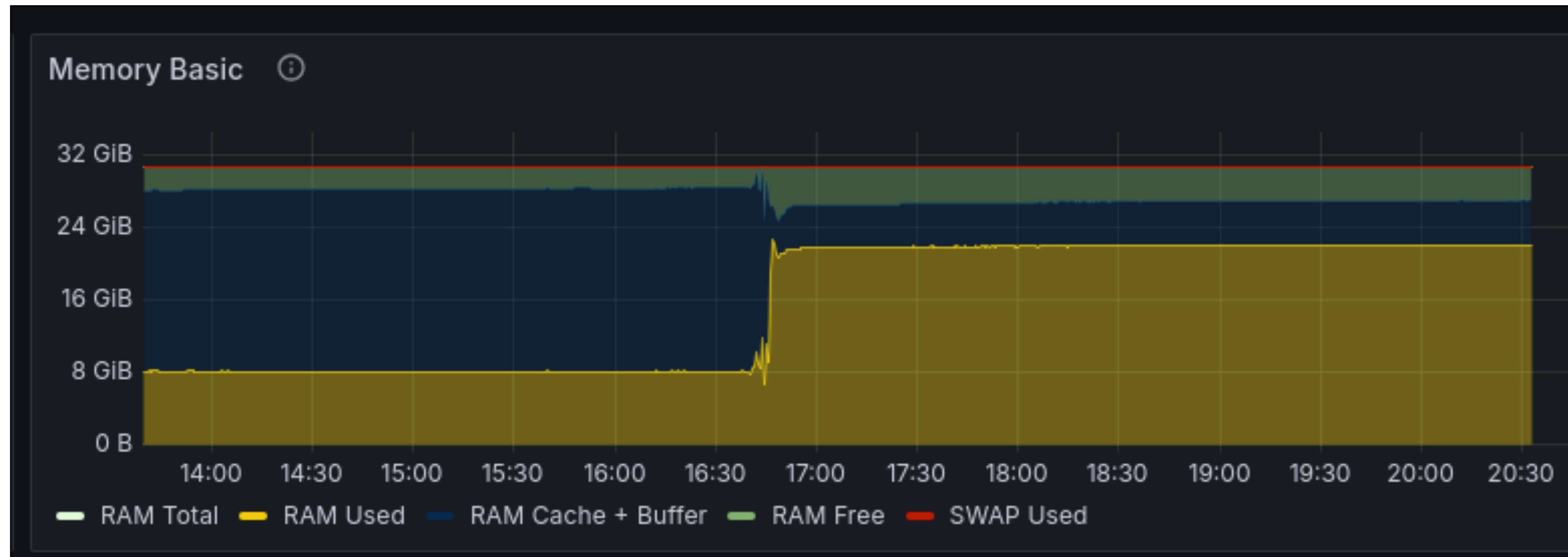
Stabilization takes time! ⌚

Roadmap

- Switch to OCaml 5

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Roadmap

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 liquidsoap-ocaml4.14.2-x86_64-2.3.3-r0.apk
 liquidsoap-ocaml4.14.2-x86_64-2.3.3-r0.config
 liquidsoap-ocaml4.14.2-x86_64-minimal-2.3.3-r0.apk
 liquidsoap-ocaml4.14.2-x86_64-minimal-2.3.3-r0.config
 liquidsoap-ocaml5.3.0-aarch64-2.3.3-r0.apk
 liquidsoap-ocaml5.3.0-aarch64-minimal-2.3.3-r0.apk
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Roadmap

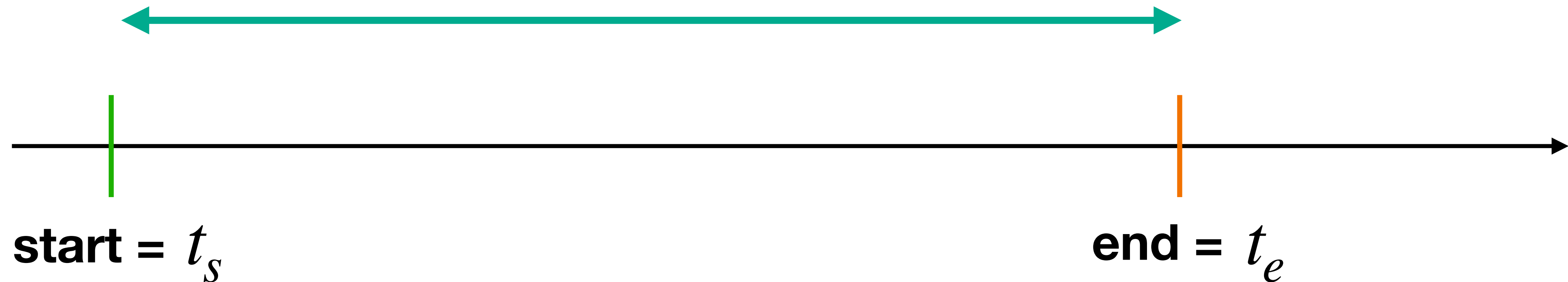
- Switch to OCaml 5

**frame duration
= 0.02s**



: CPU

**Generate 0.02s of content,
send it to all outputs**



$t_e - t_s < 0.02s$: **sleep** 😴

$t_e - t_s \geq 0.02s$: **we're late!** 😓

Roadmap

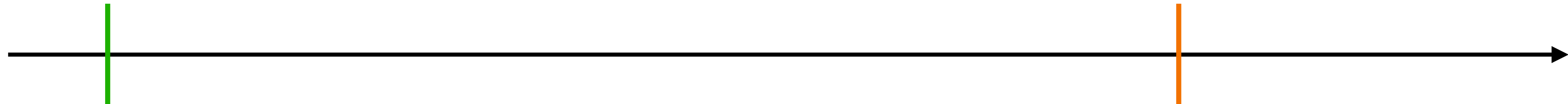
- Switch to OCaml 5

**frame duration
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: CPU

**Generate 0.02s of content,
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**Every 0.02s, we generate content
that takes up a LOT of memory**

Roadmap

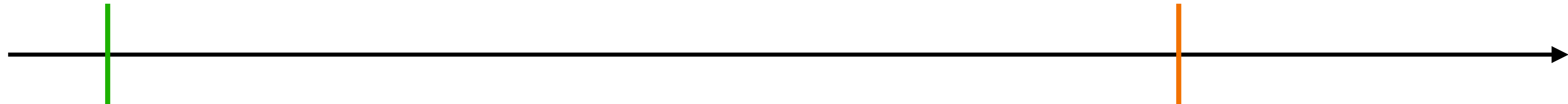
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**Most of that content can be
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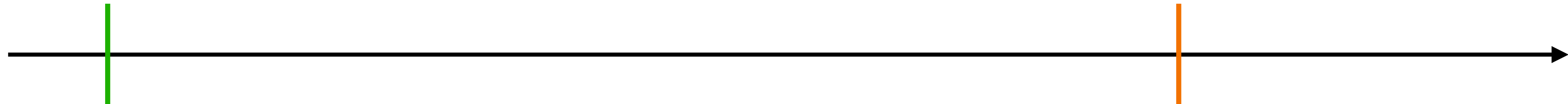
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**Generate 0.02s of content,
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**Every 0.02s, we generate content
that takes up a LOT of memory**

**The OCaml 5 GC struggles to
keep up with this memory..**

**Most of that content can be
disposed after 0.02s**

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Move content memory outside of the
OCaml memory stack? 🤔

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FFmpeg: reference counting: + — ++

Roadmap

- Switch to OCaml 5

Move content memory outside of the OCaml memory stack? 🤔

FFmpeg: reference counting: + — ++

Problem: how to enforce a strict ownership policy in OCaml contexts


Roadmap

- Switch to OCaml 5
- Simplifying our APIs

Roadmap

- Switch


↑ 3





Loading next track specific amount of time before a track ends with request.dynamic

pteich

 asked on Sep 12, 2021 in [Q&A](#) · Answered





- ↑ 1





Playing a playlist once

canchanchara

 asked on May 1 in [Q&A](#) · Answered




 1
- ↑ 1





How to play a song once at a specific time?

TomKranenburg

 asked on Feb 22, 2024 in [Q&A](#) · Answered




 26
- ↑ 1





Play a random jingle at fixed moments in a switch

periode

 asked on Dec 14, 2024 in [Q&A](#) · Unanswered




 0
- ↑ 1




Asking for help: Can't get news switch to work

Moonbase59

 asked on Jul 4, 2024 in [Q&A](#) · Answered



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Roadmap

- Switch to OCaml 5
- Simplifying our APIs

We need to better understand our
users needs! 🤔

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Write good low-level APIs 🧑🏻‍🔧

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“Simple things should be simple but
complex things should be possible”

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- Adding new functionalities

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Native PipeWire support? 

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More NDI support? 

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WHIP/WHEP (WebRTC) support?

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Native PipeWire support? 

More NDI support? 

WHIP/WHEP (WebRTC) support? - FFmpeg

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FFmpeg shared encoder! 

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- Growing our community!

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Y'all are so appreciated! 🙏



vitoyucepi 5 days ago

Collaborator

In order to triage the issue, I need to ask you about the problem because it's difficult to make assumptions.
For example:

i have a problem with rendering of text.

What kind of problem do you have, given that the screenshot shows a bunch of tofu symbols, so I asked what was written there?

ted! 🙏

- Adding new functionalities
- Fixing existing functionalities!
- Growing our community!



vitoyucepi 5 days ago

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For example:

i have a problem with rende

What kind of problem do you have there?

- Adding new functionality
- Fixing existing functionality
- Growing our community

hodi 🙏



gAlleb last week

edited ...

You can simply include `output.liq` into `radio.liq` in the end of a file:

```
%include "output.liq"
```



`output.liq` should be in the same directory.

I guess the `daemonize-liquidsoap.sh` script available [here](#) is an excellent starting point.

`daemonize-liquidsoap.sh` script seems to be very outdated. Not sure that it's a good idea to use it.

I don't know which distro/os you use but if it comes with `systemd` I would recommend using it to control your liquidsoap instance:

Roadmap

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- Simplifying our APIs
- Adding new functionalities
- Fixing existing functionalities!
- Growing our community!

The Liquidsoap book



Samuel Mimram and Romain Beauxis


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```
sh-3.2$ git shortlog -s -n | head -11
4426 Romain Beauxis
2222 Samuel Mimram
576 metamorph68@aec24677-d710-0410-a355-ac75e2bdf181
388 dbaelde@aec24677-d710-0410-a355-ac75e2bdf181
310 smimram@aec24677-d710-0410-a355-ac75e2bdf181
190 David Baelde
42 renovate[bot]
22 Vito
10 Jonas L
8 Martin Kirchgessner
7 Tony Miller
```

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How should we keep in touch? 

Questions?