

Using Liquidsoap... *and Showergel*



Martin Kirchgessner - Liquidsoap 1.0 - January 17th 2021

Disclaimer



This is an early presentation !



I had the idea last September after discovering Liquidsoap

It started in a community radio



- 💿 Some 1000s music tracks
- 🎙 10 to 50 shows weekly (live or not)
- 📡 A studio with a few computers



This is the story of
moving from Rivendell
to 🏠 + 🚧

Community radios are all the same



They like simplicity

On average, one person knows about broadcast automation

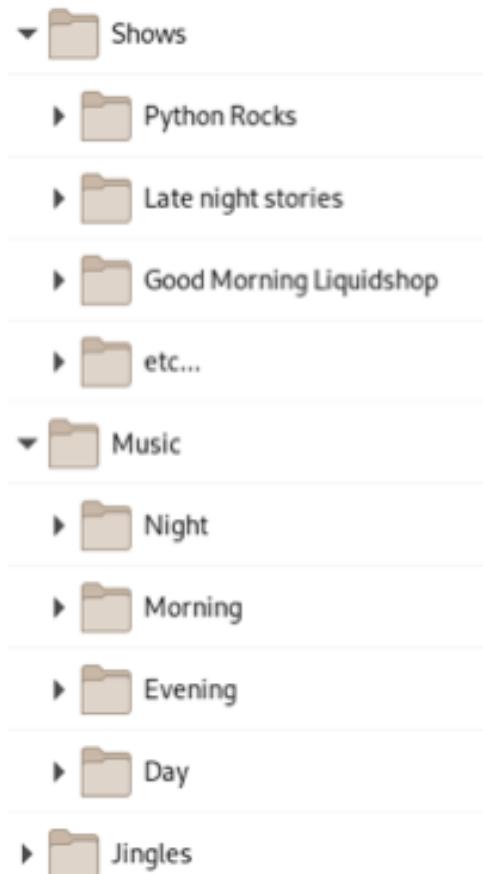
They like free software

As in free beer and/or freedom

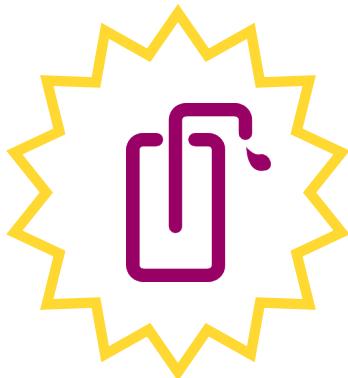
They *need* simplicity

What's simple ?

Files and folders !



Yay, Liquidsoap !

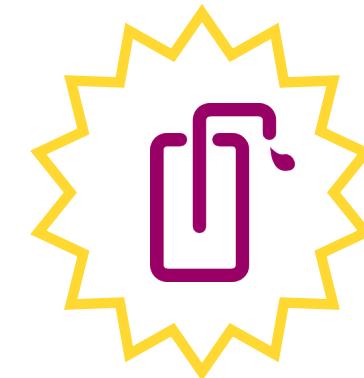


💻 Install « anywhere »

📼 Easy backup

💸 Free

✋ Flexible



(Back to this on today's final workshop)

Liquidsoap does not...

 Daemonize your script

 Log metadata

 Schedule telnet commands (inspired from liquidsoap)

 Differentiate harbor users

 Have buttons !

 Showergel does (or will)

Showergel principles

Simplicity and modularity

- 🔌 Plug only what you need
- 📁 Only files (SQLite)
- 🐍 One Python process per Liquidsoap stream

Showergel will

🚫 *Not provide a music library (maybe see [Beets](#))*



Have you edit the Liquidsoap script

Get started

Version 0.1.0 is on PyPI

```
pip install showergel  
showergel_install  
[anwser questions..., point to radio.liq]
```

```
systemctl --user start radio_gel  
systemctl --user start radio_soap
```

.liq integration

Metadata log

```
def post_to_showergel(metadata)
  ignore(http.post(
    headers:[ ("Content-Type", "application/json") ],
    "http://localhost:2345/metadata_log",
    data=json_of(metadata)
  ))
end

radio = on_metadata(post_to_showergel, source)
```

.liq integration

Harbor authentication

```
def showergel_auth(user, password) =
  response = string_of(http.post(
    headers=[("Content-Type", "application/json")],
    "http://localhost:2345/login",
    data=json_of([
      ("username", user), ("password", password)
    ]))
  )
  if string.contains(
    prefix="((\"HTTP/1.0\", 200, \"OK\"),",
    response) then
    log("Access granted to #{user}")
    true
  else
    log("Access denied to #{user}")
    false
  end
end
live = input.harbor(
  auth=showergel_auth,
  port=8008,
  "live"
)
```

.liq integration

Scheduler (soon in 0.3.0)

Just activate Liquidsoap's telnet server

```
set("server.telnet", true)  
set("server.telnet.bind_addr", "127.0.0.1")
```

In v0.1.0 you'll have to curl your way to showergel

↖_(ツ)_↗

What's next ?

0.2.0

✨ Interface

📦 Package with getting_started.liq

0.3.0

📅 17 Scheduler integration

👷 First fixes, maybe

And on

🔌 + 🧼 automatic installation

Questions

 What do you think ?

 Where goes the documentation ?

 [GH/martinkirch/showergel](https://github.com/martinkirch/showergel)

 [@martin_kirch](https://twitter.com/martin_kirch)