

Pi-node

Is a collective project of experimental and artistic use of radio and webradio..

We have 2 channels broadcasted on DAB , 1 in mulhouse east of france and 1 in paris.

I have used the icecast platform to develop some very topic specific radio,

(like radio billie jean which plays a collection of billie jean covers collected over P2P networks for 20 years..)

Today i will focus on 3 radio project..

Radio Free Assange

Is a counter-propaganda radio.. the idea would be a copycat of 'radio free asia', a US propaganda radio created after Tienanman to counter the Chinese narrative..

Here we try to counter the US narrative about Julian Assange

it started as a collection of audio documents, sorted by topics or genre, and i'm using liquidsoap here to to the broadcast but i especially appreciate the 'rotate' and 'switch' function which are the core of all the project i will show today..

so the RFA radio is rotating 2 music, 1 documentary, 1 jingle

```
radio = rotate(weights = [2,1, 1],[music,docs,jingles])
```

we also have a schedule which is useful to have a day/night program but also some special events like a « party » mode with more music than talk etc..

it has also a featuring folder to adapt the broadcast to some timely event, like activist action, artistic exhibition like noisy leaks, or documentary releases, etc.

most of the content was collected on internet like youtube videos, soundclouds,etc, nut we also created some content, most of the jingles were created for the radio

we have 233 music files collected or some sent by our audience..

julian was a great journalist, there's surely not enough media attention on his situtation, being in jail for 4 years now having committed no crime but truth...

liquidsoap is helping the cause

Talking Clock Radio

On July 1st 2022, french gouvernement closed the talking clock project over the phone after 89 years of service..

i decided to emulate the talking clock using liquidsoap..

after finding a pretty long sample with historic voice from the 70s, i split every word in a wav file.

So each minute,each hour has a sample, also 10 seconds, 20 seconds, 30 seconds, 40 seconds..

here again the switch function makes a cut-up machine based on local time (here server time from france)

<https://github.com/savonet/liquidsoap/discussions/2493>

Πano

An endless hi-resolution stream of piano.

So in this project i have a huge collection of piano sometimes solo sometimes with another instrument but sonically coherent like mostly piano, in any genre from experimental, classical, neo-classical, minimalist, ambient, electronic, etc.

i choose liquidsoap after experimenting with other software solutions because i wanted to have a flac streaming, with metadatas, liquidsoap was the easiest way to propose a solution for both ..

but unfortunately i found that all clients cannot listen more than one file.

They get disconnected (end of stream) after each song

so i had to install a dedicated player solution which is Icecast Metadata Player

<https://github.com/eshaz/icecast-metadata-js/tree/master/src/icecast-metadata-player#readme>

it works great and client don't get disconnected or automatically reconnected..

the collection is over 5000 files which can play about 15 days long

so here again i sorted the collection into 7 meta genre

CLASSIC-BAROQUE

CONTEMPORARY-MODERN

MINIMALISM-AVANTGARDE

MODERNCLASSICAL-IMPRO

EXOTIC-AMBIANT

NIGHTCLUB

JAZZ

in general use, the random can be a bit boring because it generates a pattern of number so over the long term it plays the same track over and over

i used meta playlist randomized and weighted like :

weekmorning = random(weights = [2, 2, 1],[classicbaroque,modernclassical,contemporarymodern])

sundayafternoon = random(weights = [1, 2, 2], [jazz,classicbaroque,contemporarymodern])

and then we use switch to use theses block by time, round the clock

```
piano=fallback([
  switch([
    ({ 6h-9h},    weekmorning),
    ({ 9h-12h},  sundaymorning),
    ({ 12h-15h}, weekafternoon),
```

```
({ 15h-18h},  sundayafternoon),  
({ 18h-21h},  weeknights),  
({ 21h-23h59},  sundaymorning),  
({ 0h-3h},    sundaynight),  
({ 3h-6h},    weeknights)  
  )  
)
```

so i like liquidsoap the switch , weight and time function it's all really adapted to online radio culture, i would like to extend my syntaxic capacity though.. to experiment with more composing tools based on archive, to give an example i would like to choose a cue point based on lenght file but i don't know how to do that...

i want to say that the liquidsoap doc is great but the syntax is all but intuitive, and the code examples base was defintaly helpful and key