

Radio autómatas. A future science and community radio station

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May 28, 2026

Once upon a time

- ▶ 2021, during pandemics
- ▶ The **zoomester**
- ▶ México and the educational system
 - ▶ Using computer
 - ▶ TV and radio (countryside)
- ▶ University was different, but not much

A failed experiment

- ▶ Formal languages and automata (Theory of computation)
- ▶ giss.tv
- ▶ Education, science
- ▶ Finally my selfish goals
 - ▶ Garage
 - ▶ Punk
 - ▶ Reggae
 - ▶ Hiphop
 - ▶ Fussion
- ▶ November 2023

The idea at the moment

- ▶ Low resources
- ▶ Take ideas from basspistol (<https://www.basspistol.com/>) and radio Pipí Cucú (https://comodin.uy/public/pipi_cucu)
- ▶ Found liquidsoap
- ▶ *Free as in free speech* music
 - ▶ Jamendo
 - ▶ Free Music Archive
 - ▶ Internet archive
 - ▶ Netlabels
 - ▶ Mexican independent labels
- ▶ Jingles: very bad mexican movies

Intrépidos punks (Intrepid punks)



Figure 1: Intrépidos punks

Hardware

- ▶ Originally a raspberry pi 4B, mi actual **portable computer**
- ▶ The one I use for teaching and writing my thesis
- ▶ 24/7 unless
 - ▶ Electric blackouts
 - ▶ Internet blackouts
 - ▶ Rebooting
- ▶ Maybe there's a smaller cheaper option

The station



Figure 2: The building

But why?

- ▶ Im' trying to justify my weird decisions
- ▶ Raspberry pi 4B prices going up, pi zero W going low
- ▶ I'm not even paying the internet
- ▶ No UPS yet, maybe soon

Permacomputing

- ▶ Education and science
- ▶ Low resources
- ▶ Using the computational resources keeping in mind our environment
- ▶ Responsibility
- ▶ Lets take a look

How it runs

- ▶ Bash script (there is no UPS)
 - ▶ Start tmux
 - ▶ running liquidsoap radio code
 - ▶ Nyancat (continuity)
 - ▶ Top
 - ▶ Nvlc

Here is the plan

- ▶ Ready the harbor
- ▶ Pre recorded programs
- ▶ Already working in content
 - ▶ Popular science
 - ▶ Tlamatini
 - ▶ <https://krasses.berlin/channels/tlamatiniradio/>)
 - ▶ A community, cultural radio station dedicated to science and culture
 - ▶ <https://automata.bearblog.dev>
 - ▶ radioautomata@perso.be

Muchas Gracias

Thank you very much

Merci beaucoup