

Ruby & Music

MIDIator

Arkx



**EURUKO 2009**

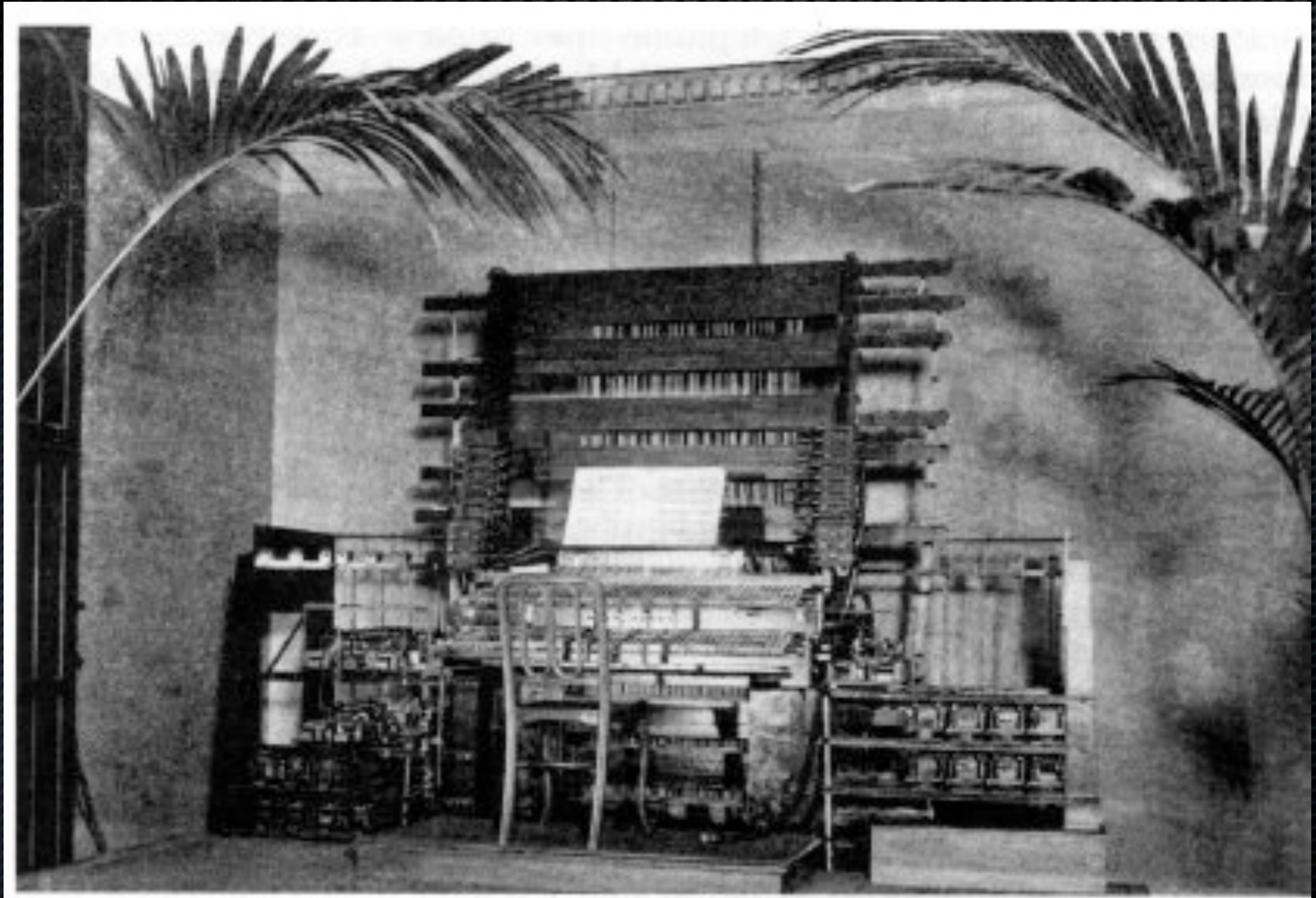
MAY 9/10<sup>TH</sup> BARCELONA



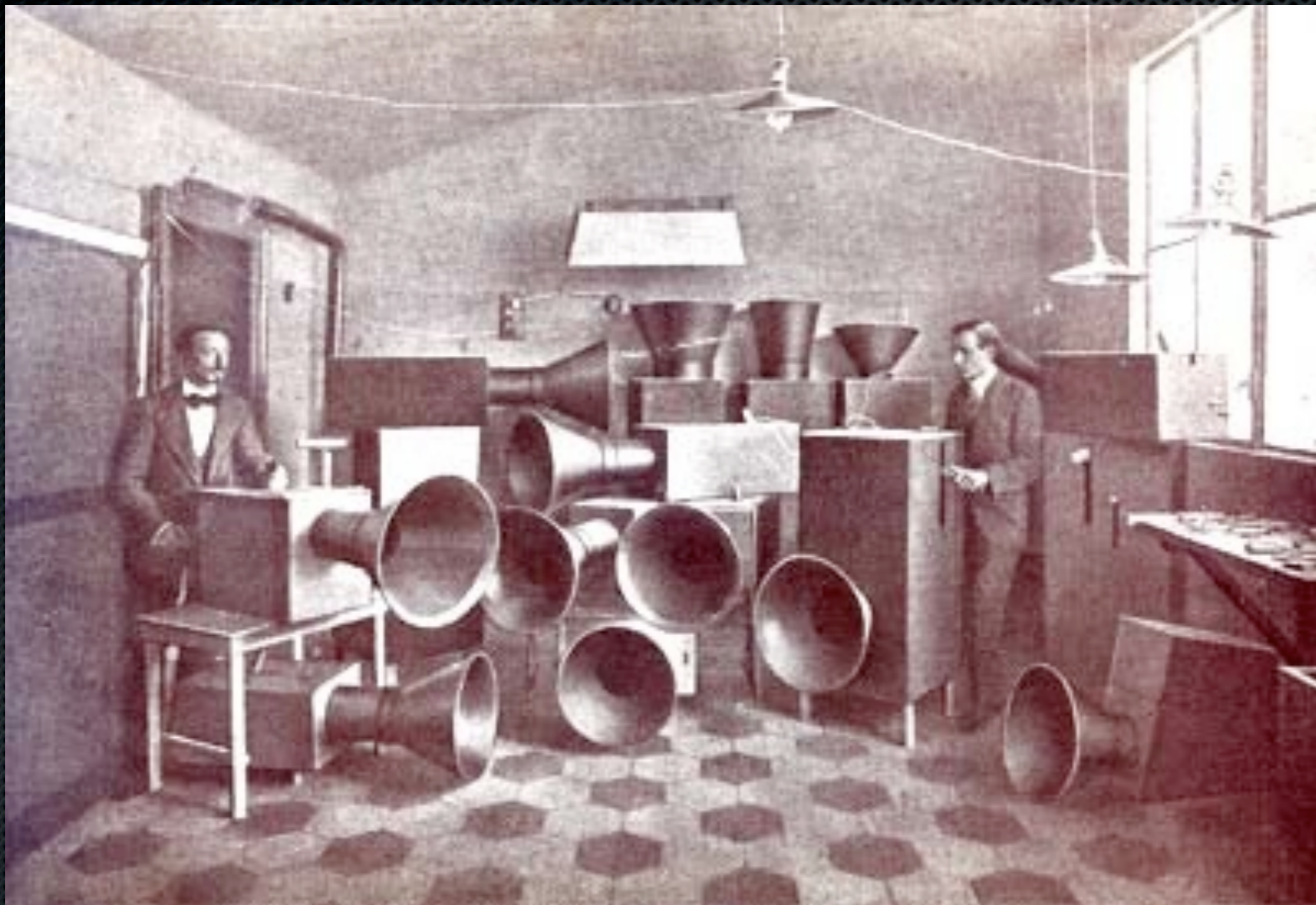
# Electronic Music History

machines that made music

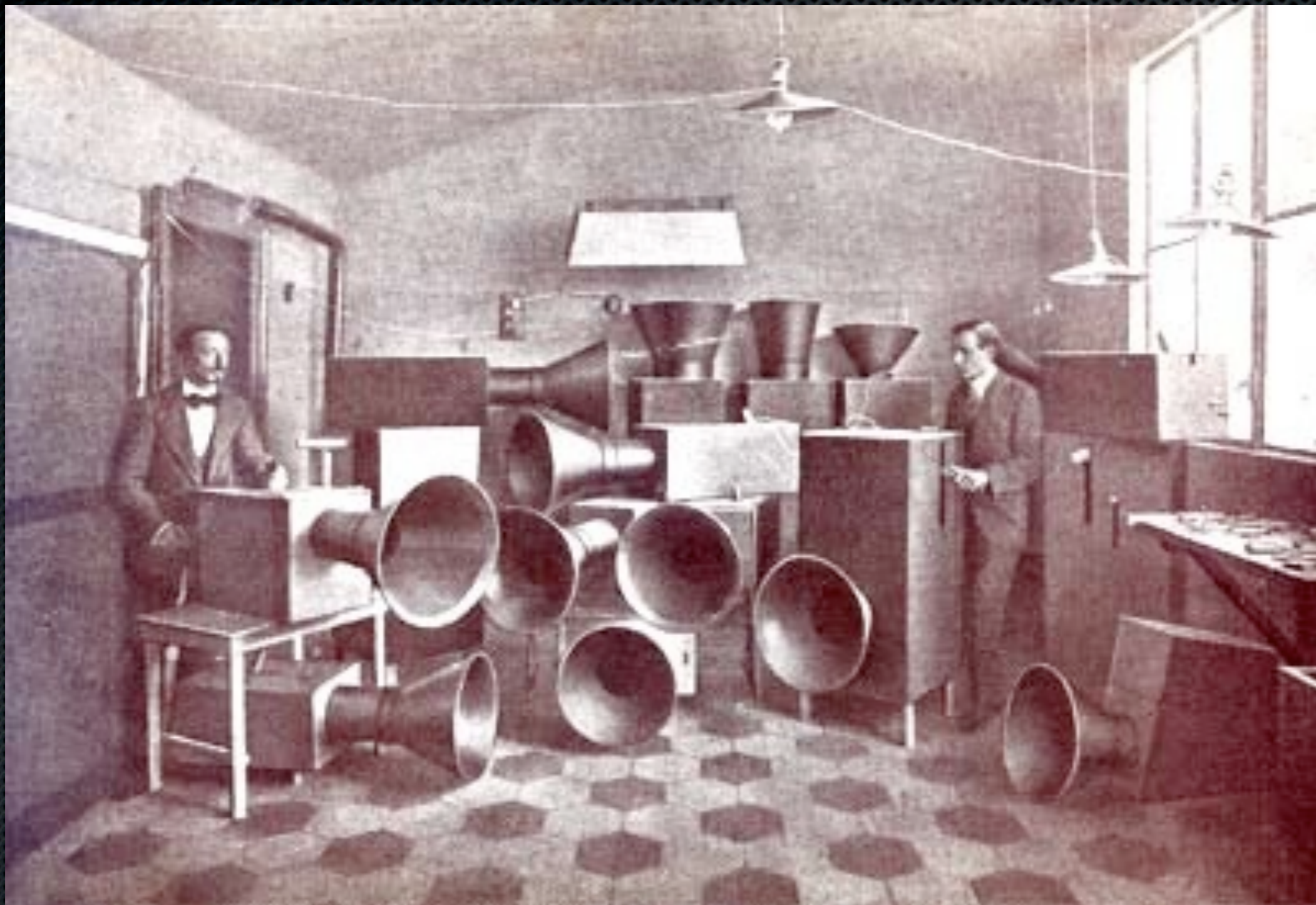
# Teleharmonium 1892



# Luigi Russolo: Intonarumori (noise machines)



# Luigi Russolo: Intonarumori (noise machines)



THIS GUYS HAVE IN  
MIND THAT THE  
FUTURE OF THE MUSIC  
WERE IN THE  
MACHINES

computer.is\_a\_machine?



YES IT'S

More and more musicians  
are using computers.

# Professional Studios



# Home Studios (my studio xD)



AND FOR DJING Live





AURORA  
Open Source  
Midi Hardware

Numark NS7  
All in one midi controller  
Real torque on decks



WTF!!!





DJ Sasha Live!

Where's the vinyl?



1983

Musical  
Instrument  
Digital  
Interface

Which is also my birth year :)

0 0 0 0 0 0 0 1

8 bits

messages

# MIDI Messages

- ✦ `def note_on(channel, note, velocity) ...`  
`end`
- ✦ `def note_off(channel, note, velocity) ...`  
`end`
- ✦ `def program_change (channel, preset) ...`  
`end`

# MIDI in Ruby

- ✦ Ruby/DL importing C libraries
- ✦ midilib library by Jim Menard on RubyForge also Gem
- ✦ MIDlator by Ben Bleything & Topher Cyll as a Gem

Archaeopetryx  
by Giles Bowkett

# Archaeopteryx aka Arkx

- ✦ Midi System for Ruby
- ✦ Generates Random Notes
- ✦ Probability Matrix
- ✦ Strategy over Strategy

# More Ingredients For Music Party





Music Time!!!



Harder - Better - Faster -  
Stronger

“Duft Punk”

Arduino Open Hardware  
+  
RAD  
(Ruby Arduino Development)

New MIDI Controllers!  
New DJing Experience!

Some code  
for FUN!

THANKS TO  
GILES BOWKETT

- ✦ Pablo Formoso
- ✦ <http://pabloformoso.com>
- ✦ Twitter user: pabloformoso
- ✦ Almost on: Facebook, Bellow, Linked in etc...