

Sound Art

- The Art of Noise?
- · Art that uses sound as a mediun
 - Sound installations
 - Electronic and experimental music
 - Ambient music
- Somehow different than music...



Forty Part Motet - Janet Cardiff (b 1957)

Experiment in F# Minor (2013)

Forty separately recorded voices are played back through forty speakers strategically placed throughout the space.

Zimoun (b 1977)

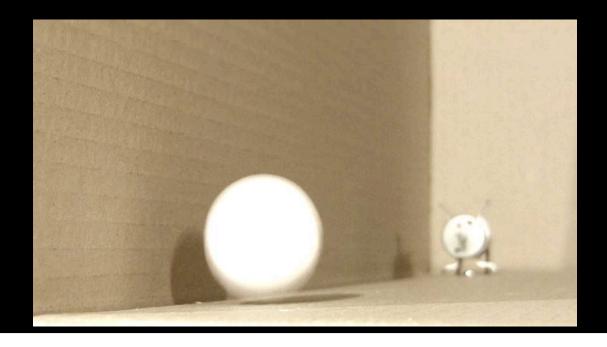
Swiss artist

Makes "sound sculptures"

for example: rotating balls on cardboard boxes



Zimoun



Zimoun



Rafael Lozano-Hemmer

Rafael Lozano-Hemmer

http://www.lozano-hemmer.com/videos.php?id=22&type=Projects

Julio le Parc

Brian Eno (b 1948)

• Joined Roxy Music in 1971

• Has collaborated with Robert Fripp, David Bowie, Devo, David Byrne,

Laurie Anderson, etc.

A pioneer of ambient and generative music

 low-volume music designed to modify one's perception of a surrounding environment.



Brian Eno

Ambient 1: Music for Airports (track 1 - 17:21)

"Music as ignorable as it is interesting."



https://www.youtube.com/watch?v=73PF7tpHFBY&index=1&list=RD73PF7tpHFBY

Brian Eno

Ambient 1: Music for Airports (track 2 - 8:54)

"Music as ignorable as it is interesting."



https://www.youtube.com/watch?v=73PF7tpHFBY&index=1&list=RD73PF7tpHFBY

Brian Eno

Compact Forest Proposal (2001)

There are 10 active CD players in this installation. Each is playing a specially cut CD, a single layer of the total music. The CDs have different numbers of tracks, some of which are silent, and each player is set to play these tracks in random order. The final music is therefore an ever-changing combination, unlikely to ever exactly repeat itself in any individual listeners experience.

David Byrne (b 1952)

alking Heads, 1975-1991



https://www.youtube.com/watch?v=Gea9SYUdJeY

Tim Hawkinson (b 1960)



Tim Hawkinson (b 1960)



https://www.youtube.com/watch?v=-D5aOUJ0QXM

https://www.youtube.com/watch?v=qOxG711lb0E

Ragnar Kjartansson (b 1976) — The Visitors

Tristan Perich (b 1982) Microtonal Wall. 2011.

I,500 speakers, each playing a single microtonal frequency, collectively spanning 4 octaves.



Tristan Perich (b 1982) Microtonal Wall. 2011.

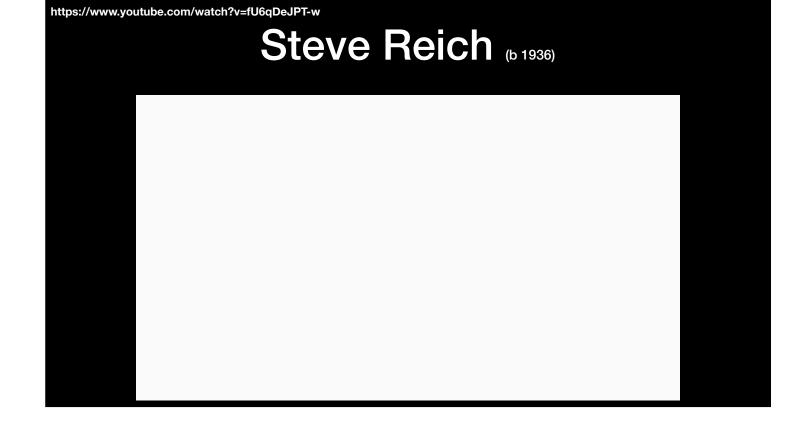
Tristan Perich - 1-Bit Symphony



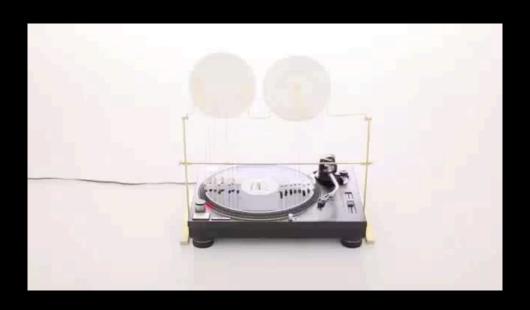
Tristan Perich's I-Bit Symphony is an electronic composition in five movements on a single microchip. Though housed in a CD jewel case, I-Bit Symphony is not a recording in the traditional sense; it literally "performs" its music live when turned on. A complete electronic circuit programmed by the artist and assembled by hand plays the music through a headphone jack mounted into the case itself.



Peter Vogel (b 1954) Soundwall Performance II https://www.youtube.com/watch?v=NlixUuoDrHw

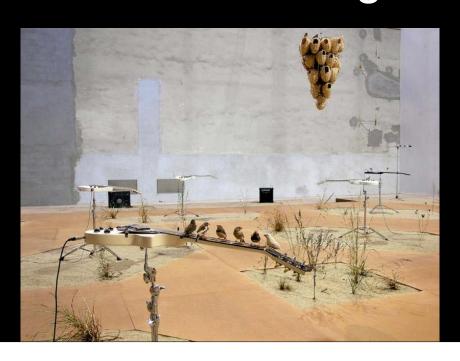


Pendulum Music





Céleste Boursier-Mougenot (6 1957)



https://www.youtube.com/watch?v=stFyG_AAje8

Céleste Boursier-Mougenot

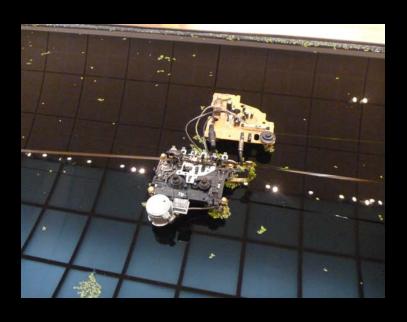


At CMU in 2016



Evan Holm - Water Table





Evan Holm - Water Table

Richard Garet

 Within Garet's exhibiting projects one may encounter stand-alone objects, installations and multi-channel space interventions that invite observation on the conditions of sound and its reception into the processes of listening, immersion, communication, information noise and time.



www.richardgaret.com/

https://www.youtube.com/watch?v=YkV-P_TkJk4

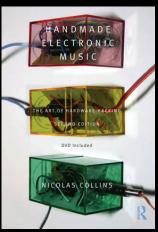
Richard Garet

https://www.nicolascollins.com/

Nicolas Collins (b1954)

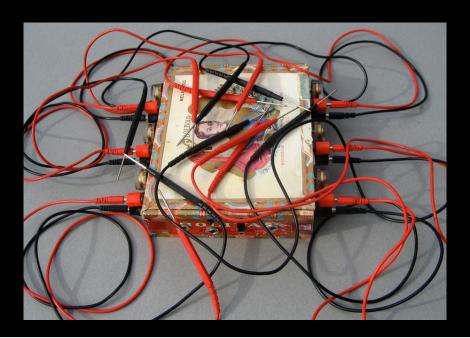
- Pioneer of using microcomputers in live musical performances
 - And in "hardware hacking:" turning random toys and other electronic devices into "instruments"
 - Teaches at the School of the Art Institute of Chicago



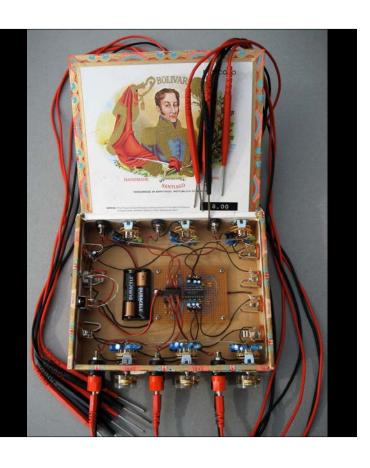


https://www.nicolascollins.com/

Nicolas Collins



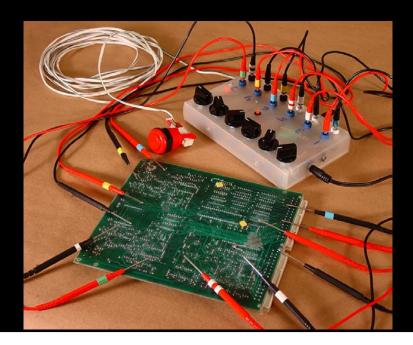
Nicolas Collins



Nicolas Collins



Nicolas Collins



https://www.nicolascollins.com/

Nicolas Collins

In Memoriam Michel Waisvisz (2009)

Nicolas Collins

Camera: Tommy Heffron

Four homemade oscillators are modulated by the flickering flame of a candle.

In Memoriam Michel Waisvisz (2009)



Luigi Russolo (1885-1947)

Italian futurist
The Art of Noise



Italian Futurism

- Artistic and social movement in Italy in the early 20th century
- Emphasized speed, technology, youth and violence and objects such as the car, the aeroplane and the industrial city.

Painting

 The Futurists practiced every artistic medium, including painting, sculpture, ceramics, graphic design, industrial design, interior design, urban design, theatre, film, fashion, textiles, literature, music, architecture and even gastronomy.

The Futurists



Futurists Luigi Russolo, Carlo Carrà, Filippo Tommaso Marinetti, Umberto Boccioni and Gino Severini in front of Le Figaro, Paris, February 9, 1912

Futurist Art



Gino Severini Dynamic Hieroglyphic of the Bal Tabarin (1912)

Umberto Boccioni sketch of The City Rises (1910)



Futurist Art



Umberto Boccioni, Unique Forms of Continuity in Space (1913)

Futurist Art



Giacomo Balla, 1912, Dinamismo di un Cane al Guinzag (Dynamism of a Dog on a Leash)

Futurist Art - Russolo



Luigi Rossolo Dinamismo di un'Automobile (1912)

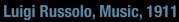
Futurist Art - Russolo



Luigi Russolo, La Rivolta (1911)

Futurist Art - Russolo







Solidity of Fog (Solidità della nebbia), 1912

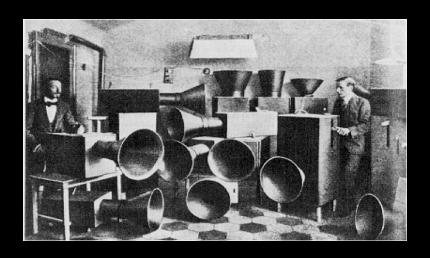
The Art of Noise

LUIGI RUSSOLO
FUTURISTA

L'Arte
dei rumori

EDIZIONI FUTURISTE DI "POESIA "
CORSO VENEZIA, 61 - MILANO
1916

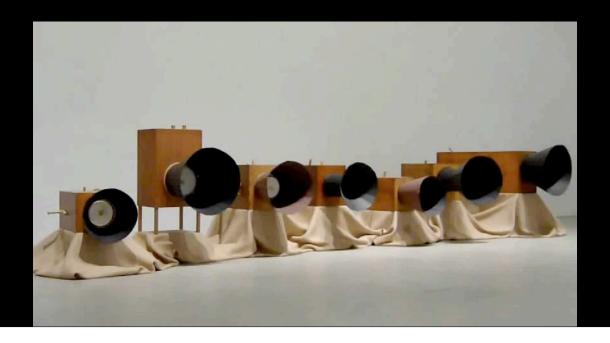
Intonarumori



Intonarumori

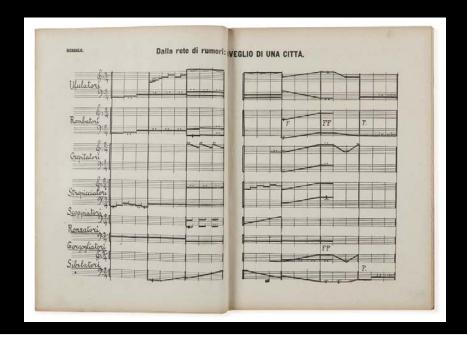


Intonarumori



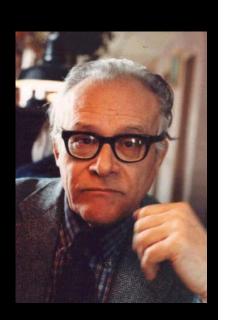
Intonarumori

Score for noise orchestra



Vladimir Ussachevsky

1911-1990



Vladimir Ussachevsky (1911-1990)

- Pioneer of electronic music
 - "Tape music" in particular
- At Columbia University starting in 1947
 - Co-founded their electronic music studio
- Visiting prof at the UofU in the late 1970's
 - I (Erik) was lucky enough to take a class from him in 1979



Columbia-Princeton Center for Electronic Music

1959

With Otto Luening



Vladimir Ussachevsky



Vladimir Ussachevsky





Vladimir Ussachevsky

- Linear Contrasts 1958 (3:48)
 - Tape recorders, audio oscillators, filters, reverberation, piano, and harpsichord



- A classic piece of "tape music"
- Blends "concrete" sounds and purely electronic sounds



Columbia-Princeton Center for Electronic Music

1959 With Otto Luening

In notes, Ussachevsky described the Center's aims:

"... a certain amount of research in sound synthesis and some analytical studies will proceed, parallel to the composers' creative work."

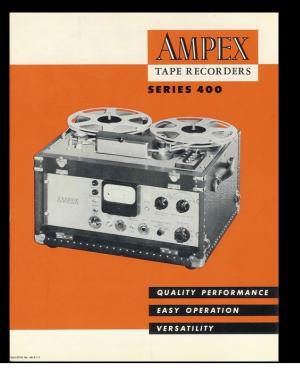
He goes on to mention work in musical acoustics, and supplementing studies in psychology, psychoacoustics, speech and electrical engineering

Columbia



Tape Recorders





Tape Recorders

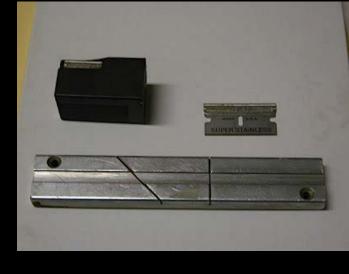
"The tape recorder was put in my charge, and one day I suddenly realized that it could be treated as an instrument of sound transformation." - Ussachevsky







Tape Music





Ussachevsky at Utah





Steiner Synthesizer



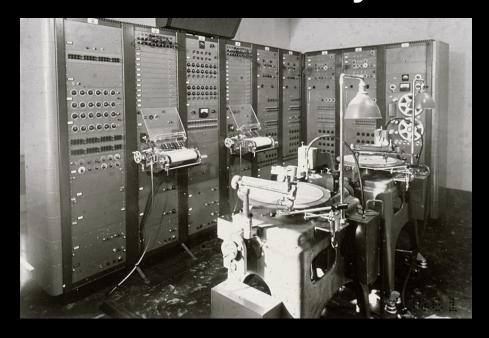
RCA Mark II Sound Synthesizer



RCA Mark II Sound Synthesizer



RCA Mark II Sound Synthesizer



RCA Mark II Sound Synthesizer



Office of Brad Garton, Professor of Music at Columbia

Archives at Columbia



The Archives contain:

- 4,859 reel-to-reel tapes (ca. 55% 10" and 45% 7" reels)
- 700 recordings in other formats (DATs, phonorecords, CDs, etc.)
- ca. 72 linear feet of printed documents, manuscripts, and ephemera
- I conducted a rough survey and inventory to obtain the best estimate I could, within time constraints

Sound Art installations

outside

UW Arboretum 2012



UW Arboretum 2012



UW Arboretum 2012



UW Arboretum 2012



http://www.doaks.org/research/garden-landscape/contemporary-art-installations/hugh-livingstor

Hugh Livingston 2014 The Pool of 'Bamboo Counterpoint'



Illumination - Christian Skjodt, 2014

http://skjodt.net/illumination/

