



#### diffusion

Recordworks

ONE:

# ROB GAWTHROP

Although the means to record sound separated what was heard from its source

quite similar to hand written documents produced in a culture centred around writing. It was hardly a coincidence that in 1909 this trademark was retired in favour of the dog Nipper listening patiently to the mechanical voice of his master. The record had become mass medium – music's servant, not its initiator." Michael Glasmeier, "Music of the Angels" from Broken Music, Artists'

The original trademark of the Grammophon company was of an angel inscribing grooves on a disc with a quill: "the unmistakable physiognomy of an individual's unique voice; a procedure

"... the same aim as printing; they were designed to transform sound into writing, in other words, to achieve automatic stenography." Jacques Attali, *Noise, The Political Economy of Music.* 

time Edison overlooked the commercial potential of recorded music). Two dominant characteristics occur in this list, these being of speech and of preservation (archiving). Concerns regarding phonic creativity and representation were not so much marginalised but had not even been thought of. The early pioneers of sound recording considered their projects having,

Edison in 1878 listed ten uses to which the phonograph could be applied

These included what would be described now as: as a dictaphone; talking

books; teaching of elocution; preservation of languages; family records (including

the last words of dying relatives); speaking clock; teaching purposes / records

of lectures etc.; telephone answering machine; music boxes and toys; and the

reproduction of music. Much of this list has since become manifest (at the

Within noise, detailed perceptions can be learned when there is a perceived need. During war the sounds of enemy planes could be distinguished from one's allies.

If it can be heard, it can be said that: what a sound is - is sound as object; what a sound is of - sound as representation; what a sound is like - sound as description.

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#### Forward

Industrial society gradually introduced noise through powered machinery. As noise increased, the perceptual connection between the source of the sound, its identification and the reason for it became less precise.

Technologies around the time of, and those that followed the phonograph separated the means of production from the means of its dissemination. The sufficient photographic camera developed as both the product and as the means of production. Size, cost and the mystique of professionalism have been contributory factors causing this separation. The making of photographs has been within the public domain since around about the same time as the invention of the phonograph but portable audio-recorders have been widely available now for only about thirty years yet public use has essentially been limited to the copying of music from radio or disc.

"It is self evident that nothing concerning art is self-evident anymore, not its inner life, nor its relation to the world, not even its right to exist." Aesthetic Theory. Theodor Adorno

"For twenty five centuries, Western knowledge has tried to look upon the world. It has failed to understand that the world is not for the beholding. It is for hearing. It is not legible, but audible.' Noise, Jacques Attali

announces itself as an immense accumulation of spectacles. Everything that was directly lived has moved away into a representation." Society of the Spectacle, Guy Debord

machines, with all the necessary couplings and connections. Anti-Oedipus, Gilles Deleuze and Felix Guattari "The entire life of societies in which modern conditions of production reign

to have ever said the id. Everything it is machines - real ones, not figurative ones: machines driving other machines, machines being driven by other

"It is at work everywhere, functioning smoothly at times, at other times in fits and starts. It breathes, it heats, it eats. It shits and fucks. What a mistake

sensation, which seems immediate and obvious. Phenomenology of Perception, M. Merleau-Ponty

"The world is all that is the case."

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Tractatus Logico Philosophicus, Ludwig Wittgenstein

"At the outset of the study of perception, we find in language the notion of

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The foetus, immersed senseless except for hearing.

recognised, decoded or interpreted; intellectually and emotionally.

external phenomena or events, through time; gained through the senses;

Experience could be described as a process or activity, between the self and

and ending of an experience, the memory of the experience; the construction

The flux between self, control and perception; of experience: the beginning

the violence of its fusion and the power of its emission have replaced the in which it offers up its representation. But this is a representation for which

"The light of speed illuminates the world and all its matter in the very instant

of the stars, planets, sun & moon; through an agreed measuring system; and that include: being located within another person; by the movement and effects

externally from, but in relation to, the self in a number of interrelated ways

Temporality is located in the self (in one's own time) it is simultaneously located

To start from the self, the body, the senses.

of the event (opening/closing - starting/ending)

Beginning, A priori. Birth, Formation, Construction.

Lost Dimension, Paul Virilio

course of the sun from dawn to dusk."

by the marked duration of events.

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## Prologue

If anything (creative / cultural / artistic / musical / performic etc.) is organised then it could be said that the constituent parts have been managed, conductor or controlled. The power relationship between: the Manager / Conductor / Controlled. The power relationship between: the Manager / Conductor / controlled. The power relationship between: the Manager / Conductor or conducted / controlled – the work; and Audience / Viewer / Listener – recipient; may be: benign (reflexive, shared, participatory); consensual (conscious or unconscious agreement between); or oppressive (production , conversion, propagation).

If the means of making and presenting work is integral to the receiving of the work then there is a tangible (conceptual, perceptual) relationship between the recipient and the maker. If the means of making and presenting the work are separate from the work then the recipient is alienated from the maker. The maker becomes the producer who in turn may be managed, controlled and, by implication, owned. The receiver becomes the consumer and the relationship with the work is reduced to one of illusory value and exchange.

"The society based on production is only productive not creative." Albert Camus, The Rebel

There is a dominant tendency to describe not just that which is produced as a product but any output that has an exchange or potential exchange value. The concept of value is not fixed but is reached through consensus, negotiation or war. For a majority to give consent then the representation of value must have authority and be convincing. This is essentially a confidence (or magic)

At birth: separation, pain, being touched, tasting, smelling.

The validation of *things* in the world can only be through the senses, we have to accept what we see, hear, touch and taste for the world to make sense.

Self, the world, and language are formed through the senses. All of the senses.

Sensory experience, of feeling, taste, being moved and of being touched. The

In psychoanalytical terms the real as the first encounter, of being woken-up.

Beyond representation and outside of language; of excess, the abject and the

"Consciousness comes into being at the site of a memory trace."

Familiar sensations: smells, sounds and warmth.

Freud quoted by Walter Benjamin in Illuminations

Lone-Twin's work in progress *The Days of the Sledgehammer Have Gone* included an absurd rain-dance in waterproof walking gear, a live recitation of a list of rivers from distant parts of the UK via a telephone, and the dripping of water pumped from a nearby river into the gallery.

Peter Bosch & Simone Simon's installation *Krachtgever* used computers to shake a wall of crates, filled with wood, glass, metal etc., on springs to produce noises that moved from one end of the wall to another, loudly and softly without any sound reinforcement.

that technology is involved.

As one with the Mother.

Of the self but not the self.

Emissions: utterance, defecation.

New sensations: light and taste.

confirmation of being, the real.

sublime.

commentary on what we see. We know that it is being performed and we know

apparently produces the sound we hear or the sound is an abstract or literal

by using objects and their sound-samples on bathroom scales. We see what

Hayley Newman's performance Soundgaze reconstructs from the acousmatic

European free improvisation explores the conditions of making and listening as an active process except when the need for expression takes precedence.

and continue to use evolving compositions that are self-reflexive and respond

The early work of Philip Glass & Steve Reich exposed the means of making their work, the system was the work – their more recent concerns with harmony and use of biographical references may be seen as a retrogressive move. Terry Riley, Tony Conrad, Pauline Oliveros and Charlemagne Palestine have

"Bring a bale of hay and a bucket of water onto the stage for the piano to eat and drink. The performer may then feed the piano or leave it to eat by itself. If the former, the piece is over after the piano has been fed. If the latter, it is

Fluxua musical scores (LaMonte Young's Piano Piece and others by George Brecht, Yoko Ono etc.) present a paradox in that alternative versions may be present; some or all may well be impossible. The audience is placed in a position of simultaneous action and reflexivity even if this is the form of questioning one's own position ("what am I doing here?") and rejecting the

over after the piano eats or decides not to." (October 1960)

LaMonte Young's Piano Piece for David Tudor #1

work - of termination.

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to acoustics, technology and audience.

Sound-bites, 'alert' sounds, call signs and jingles are the nearest audio equivalent to a filmic shot or frame. These operate as encapsulated signs or signatures. They serve as commands, refrains, statements of ownership (territory) and as such operate ideologically.

move a people. Flags can do nothing without trumpets... The refrain is sonorous par excellence, but it can as easily develop its force into a sickly sweet ditty as into the purist motif... Beethoven used as a signature tune. The potential fascism of music." *A Thousand Plateaus*, Gilles Deleuze & Félix Guattari.

Louis Althusser, in *Ideology and Ideological State Apparatuses*, presents the proposition that if a person or persons are hailed (interpellation) then they have been transformed into subjects. This automatically sets up a power relationship especially if the interpellator also has a position of power i.e. through status, knowledge etc. (Althusser's example was of a policeman calling "hey you there"). The most likely form of hailing would be aural (although a visual indicator may be possible). Broadcasters use all manner of sounds to draw attention to the commencement of programmes and to emphasise importance.

"The role of the refrain has often been emphasised: it is territorial, a territorial assemblage. Bird songs: the bird sings to mark its territory... Colours do not

trick that is dependent upon the style and panache of the perpetrators and the gullibility of the recipients. This representation itself serves ideology as it denotes a power relation as though normal, acceptable – common sense.

> Music that is idiomatic; that is music of a certain type, style, or is associated with particular social/cultural (sub) groupings; can be recognised by the characteristics that such idioms may be associated with. Technology allows and ideologically encoded sound sources that may be (re)used (albeit unconsciously) for those very reasons.

#### Preface

Aurality may be perceived as a riposte to visuality. As audio-visual media have developed through the twentieth century much common language usage has become inadequate, inappropriate or misleading. Visual art for example cannot refer to any time-based art-form as nothing temporal can be silent, if time-based work is considered a visual art then the aural is marginalised.

Music is an appropriate term to cover an aural cultural practice defined as the organisation of audible and inaudible material. However, for most people music has become pre-defined and is used specifically to describe harmony, tune and rhythm using musical instruments and voice.

The Classical domination of equal temperament, developed (or was liberated) from Pythagoras after The Enlightenment. This enabled (mathematical and predictable) systemisation (Orchestral Music, keyboard and fixed tunings) and domination.

In Idrises Ouedraogo's 1989 film Yaaba, the use of quietness accentuates the meaningfulness of sound in relation to both the activities portrayed in the film and of physical space. Every sound has both meaning and æsthetic resonance. The conventional use of a music soundtrack to open and close or tain scenes (by Francis Bebey) served to reinforce difference in its obtrusion. An equivalent Hollywood film uses layers of speech, music, effects, atmosphere as a means to support a narrative which in itself is expressed through spoken as a means to support a narrative which in itself is expressed through spoken or signified language. The responses of the viewer/listener being essentially predetermine.

In Michel Chion's book The Voice in Cinema, Chion describes the exclusion of certain actors from parts in the emerging talkies, because of the quality of their voices. The King's English was required for British radio broadcast both nationally and for the World Service (London Calling).

The following inform (usually negatively and without thinking) most forms of aural culture where the understandability of what is being said (diction) is foregrounded: Regional accents (class); Cultural differences (racial); sexuality (gendered); and authoritative power (patriarchal). Such unthinking is perpetuated where-ever there is the spoken word. There is a contradiction between the meaning of the voice (unintelligible accents) and of being able to understand meaning of the voice (unintelligible accents) and of being able to understand what is being said, nevertheless it should be possible for the listener to learn.

John Cage's premise that silence separates one section of a composition from another was called into question by his own composition 4'33" where its 'beginning and end' is denoted both aurally and visually by the opening and closing of a piano lid. John Cage was concerned with how music is

composed but 4'33" shifted the emphasis to listening and simultaneously affirmed the performic.

The performic aspect of music has many antecedents (apart from ritual music

and traditional songs) that include the use of cannons and fireworks in certain orchestral works (to create a good noise); the introduction of African musicianship

...military bands utilised a fantastic number of percussionists - sometimes

one-third of the band – to the imbalance of the music." Amon Saba Saakana, "Culture, Concept, aesthetics: the phenomenon of the African musical universe

in Western musical culture", in The Last Post: music after modernism"

George Anteil's live accompaniment to Ferdinand Leger's Ballet Mecanique

complete with aircraft engine; and The Symphony of Sirens conducted with

Eric Satie's Vexations (1893) requires the pianist to play a one-and-a-half-

minute motif eight-hundred-and-forty times. The piece would last over 18 hours.

This was first played under John Cage's direction in 1963 by a team of pianists. It has been considered that *Vexations* should be played by just one pianist,

this was attempted by Reibert De Leeuw but was curtailed after 117 times

"In Zen they say: If something is boring after two minutes, try it for four. If still

boring, try it for eight, sixteen, thirty-two, and so on. Eventually one discovers

into British military music in the Eighteenth century:

giant flags from rooftops by Arseni Avraamov.

by the necessity for the Hall to be closed.

In Cage's famous aphorism (from Silence),

that it's not boring at all but very interesting."

In Olu Taiwo's presentation (with John Wood – "Clock Time & Consensual Time") at ISEA98 a generalised difference between *African* and *Western* perceptions of time and objects was illustrated by the description of an apple on the ground over a period of time. The western understanding being that the apple was there at the start but at the end of the period of time it was a rotten core; the African understanding being that the apple was gradually transformed. The western approach separates and objectifies – of naming. The African

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Classical concepts of (astronomical) time developed from Aristotle and recently taken to its logical conclusion of Beats Per Minute using digital technology. Rhythm, one of the few preserves outside of classical influence, is in turn becoming homogenised through simplistic popular dance structures and computer technology.

Traditions derived from *the natural world* : of imitation, representation and being; of work and movement; of communication; have been modified through class, patriarchal, religious and imperial domination and are continually being modified by technological developments through the means of production, reproduction and distribution of music globally. Ever towards homogeneity and away from the celebration of difference.

Tony Conrad, sleeve notes from CD Slapping Pythagoras.

"...a harmonious esoteric master-order which is set in rigid opposition to Greek democracy. For this purpose, the ideal of cosmic harmony (in effect a larger and universalizing Order which transcends all human agency) was invented – and music was made the linchpin in Pythagorean idealism." and, "... Pythagoras has to have *The Music of the Spheres* which only he can hear... What a load of crap."

"...a *harmonious* esoteric master-order which is set in rigid opposition to Greek democracy. For this purpose, the ideal of *cosmic harmony* (in effect a

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Dziga Vertov's 1931 film *Enthusiasm* used location recordings of natural sounds, music and noise and edited both sound and image synchronously and disjunctively.

The music industry continues the process of attempting to recreate with as much accuracy and fidelity as possible – the perfect concert in your living room. This is despite the range of acoustic spaces and audio equipment that people will be experiencing the music in and with. This quest can be explained (excused?) as being for: technical research; creative research: or economic gain.

The communication and entertainment industries continually silence or make invisible the means or methods of illusion.

When large distances separate a performer from the listener/viewer, synchronisation can only be assumed or imagined. When video projections enlarge the action or relay the visual information closer to the viewer synchronisation is perceived, it being live is assumed through comparison. Electronic treatments of sound compensate for the distance and the discrepancy between the speed of sound through air and of sound/picture as electromagnetic radiation (through a line voltage, radio waves or light).

> approach demonstrates a connected continuum, a process – of imagination. It is outside of (western) traditional, classical and modernist concepts of music that music is able to challenge and develop, or... the future of music is not music.

To silence by noise and escape through the glitch.

#### Prelude

A reflection in a puddle remains as long as it is looked at.

Before the invention of the phonograph no one had heard themselves before except through momentary echoes and reverberations.

Echo & Narcissus.

Pictures (cave paintings) have been made that have so far proved to be permanent.

All sounds are produced through actions, moments and things of change.

We can emit sound, smell and heat of which only sound can we control. We cannot emit light.

#### Introduction

Much contemporary art makes use of what is called installation. Gallery spaces are rendered neutral to avoid visual distractions, however aural neutrality is the exception rather than the norm. The suspension of use of our perceptual faculties is necessary for the reading of exhibits. Noise and conversations are figmored when viewing. Loudspeakers, microphones and people are ignored when listening. Artists and curators should be concerned with the site-specificity of the gallery when dealing with audio-visual installative work. There was a time not long ago when sculptures were placed on pliniths seemingly without any perceptual disturbance.

Loudspeakers are an issue in that they are objects that exist in a space, are disguised or hidden. Along with audio recording loudspeakers have normalised the acousmatic experience. Knowledge of what a sound is and the potential consequences that the sound may not be actual requires verification through looking. In the case of unexpected sounds this happens without choice.

Through careful listening it can be possible to recognise that the sound in question is being produced by a loudspeaker. The problem can be compounded when the loudspeaker is part of a public-address or sound reinforcement system. Normally, when in a performic situation, the P.A. system is set-up to producing all of the sound but louder. When public address systems are used as information sources, such as at railway stations, it is not known if the voice is live or pre-recorded. It is unlikely that many people could detect such a difference through listening alone.

Prior to the discovery of synthetic dyes and pigments colour was created naturally. A colour could have meaning in the sense that it was originally something and that something may also have had a smell. The creation of

In pre-industrial society it was possible to recognise and distinguish anything that could be heard. Sound was produced by living things directly (voluntary or not) or as a consequence of the weather and other natural phenomena. Continuous sound (apart from running water, wind and inaudible atmospherics) has only existed since industrialisation.

Any single object, as a representation in stasis, is temporally sited only in relation to those perceiving it and in its relationship to other objects. A narrative may only be formed by the perceiver's own creative imagination which is drawn from a lifetime of experience including the accumulation of knowledge of a multiplicity of objects which may have every conceivable relationship with each other. For an event to take place in actuality an action has to take place. An action will include movement, movement will create sound.

space. As long as a human eye is looking, there is always something to look at.... The Art of our time is noisy with appeals for silence." Susan Sontag, "Aesthetics of Silence" in Styles of Radical Will.

or because other sounds dominate. Where there is stillness our auditory perception is heightened. We cannot close our ears, even when sleeping. "John Cage stated that 'There is no such thing as silence. Something is always

happening that makes a sound' Similarly there is no such thing as empty

Where there is movement there is sound. Not all sound is audible. A particular sound may be inaudible either because it is beyond the limits of our hearing indistinguishable from the playback of its recording. It also enabled communal of the loudspeaker that it became possible for the phonic source to be (as did the telephone) it was not until electrical recording and the development

described as atmospherics. Alvin Lucier recorded these as Spherics and more

Electromagnetic radiations picked up through radio-receivers have been

may produce emotional responses sometimes objectified as an atmosphere

air and acoustics all playing their part. The simultaneity of such experience what has been what is and what is to come. Distance, wind or movement of

combination of which, together with visual stimuli, give information regarding Air and space are necessary for sensing sound, smell and temperature. The

Imperfections of the body may be heard: heartbeats, wheezing etc. - Prior to

between an objects shape and its sound. (received) Aesthetics of sight and were employed by railways for the same reason. There is a direct correlation

imperfections can be heard: a bowl will not ring if it has a crack. Wheel tappers

particular sounds when struck and produce particular harmonic structures, Objects and materials of uniform shapes (metal glass pottery wood etc.) make

affected by acid or alkali reaction (indicators, the litmus test). Colour had value

changes could be brought about chemically where a substance would be additional colours through mixing was more in the province of alchemy where

Faults in engines are usually identified aurally before any visual sign.

x-rays, listening to the body was the only means of diagnosis.

in that some pigments would be rare and others commonplace.

Adolf Hitler, 1938 - Manual of German Radio "Without the loudspeaker, we would never have conquered Germany."

or mass listening.

·punos

recently by Joe Banks (Disinformation.)

or aesthetically as being atmospheric.

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acoustics of the space that the final result will be listened in. acoustics of the recorded or simulated space will rarely coincide with the However, the reproduction of space and direction is less than convincing, the perceptually identical, this produces doubt as to any sound's authenticity. of the loudspeaker and the sound of its original source, the sound waves are The sound produced by late-twentieth century loudspeakers is both the sound

Ludwig Wittgenstein, Tractatus Logico Philosophicus about them; I cannot put them into words." "Objects can only be named, signs are their representative, I can only speak

described as what it represents. represents. As an object, it is named a picture the problems occur when it is A picture cannot be anything other than a picture irrespective of what it

the potential of something that may impact upon the self. to identify the object or objects it also signifies an activity, changing circumstances, they make. What is important here is that although the sound may be used An object or objects that are not in stasis can be recognised by the sound

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influentially, the Jamaican producers of Dub, allowed the sounds made through the technology of the recording studio to become essential parts of the music produced. These so-called technical flaws have become a particular æsthetic . (albeit sometimes within a particular idiom). It can now be desirable to recreate hiss, crackle and rumble digitally through specially written programmes. And similarly in digital video to reproduce filmic scratches, dirt and video time-code

Sound engineers seek to (re)produce sound indistinguishable from its source Some sounds are now more commonly heard from speakers than from their original source to the extent that the source when heard is called in to question rather than its reproduction. Drums when live have a large dynamic range which require 'compression' for recording and replay.

process imperceptible. Producers, particularly Joe Meek and, perhaps more

It is possible to recognise the difference between the sound emitted from its source and its sound as emitted from a loudspeaker. The difference being produced by the effect of space, of acoustics of the source; and of that where the loudspeakers are placed, together with the effect of intervening processes

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errors.

Processes of recording sound (and music in particular) produce particular sound qualities. In music this quality is often distinctive, like a signature denoting the identity of the artist(s). As sound engineering developed so too did the role of the producer. An intention of sound recording was to render the

(E.Q., mixing, compression).