

Sixiii... Implicencies

➤ Introduction w.
Femke Snelting

↳ Group Introduction

↳ Intro. to (Radio) Implicencies

■ Typography (Design) ↔ Text
(knowledge systems)

■ Problem ~~→~~ solution

↳ Responsibilities →
↳ Desires →
↳ Other →

■ The way we think changes how we
views the world

■ knowledge systems ↔ Feelings
(don't just look at Ontologies)

■ Anti solutionist → Technology used to
solve the problem
↳ means: you know the problem
(don't)

- (not)
- ↳ Technology can solve the problem
 - ↳ The solution happens at a different place than the problem

- ❑ Connection between modern Tech & knowledge systems
- ❑ Relations between form & matter
- ❑ ~~Ways that~~ Thinking and Working - unleashing imaginaries based and their capacities based on complexity, contingencies
- ❑ Colonial condition of contemporary tech - infrastructure



↳ The plot of her undoing
- Saidiya Hartman

↳ A text speaking about the suffering of a black woman (slave) and the long history that leads to this.
(history of racism / colonialism / sexism)

↳ ... about a long history of sexism / racism / colonialism / injustice from the perspective of a black woman.

↳ Deeply rooted social injustices carrying on from colonialism, as a slave, up until our modern society (capitalism).

↳ Persistent inequality.

↳ ... how social inequality persists in our modern society, rooted in colonialism, from the perspective of a black woman

↳ How a black woman in the end revolts against this system of inequality^{*}, that rooted in colonialism and (i.e., discrimination, torture, oppression) persists in ^{sometimes} modified ways in our modern society.

↳ The feminist struggle at large

22.04.20

➤ Afternoon with Femke & Michael

↳ Intro to the technical side

by Michael

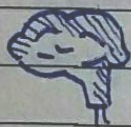
↳ Different temporalities in broadcasting

→ live performance (stream)

→ Radio - mix of pre-recorded &
live performed

→ Podcast - pre-recorded compl.

↳ Can mix



Thoughts about the text

↳ temporality changes

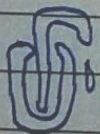
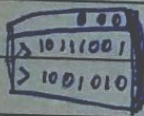
↳ The N-word - being
implicated in the content
by reading it out

↳ 'plot' - twist in the end

= plot is already written

but it can/must be changed

/undone

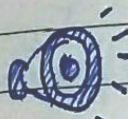


Liquid Soap

Audio & Video streaming language



- Ice cast



- Seda Gürses - Apple & Google
partnering [...] Corona [...] Contact tracing
+ Annotating

➤ 12.0

23.04.2020

↳ Preparatory: create Swims of Podcast

↳ The question exercise

↳ Making a structure

- Uploading mp3's to the sandbox

- pre-recording 'live' segments

- Uploading those to the sandbox

- Make a playlist w. liquidsoap

- stream via ice cast server

❑ to copy to the sand box:

→ [logged out] → cd directory of file

→ scp file.extension hub.sandbox:/dir/.

❑ FFmpeg = commandline tool convert
audio & video

↳ ffmpeg -i "name.mp4" "name.mp3"

Make a playlist of the uploaded
mp3 files
cd /srv/radio
ls /var/www/html/*.mp3 >> playlist.m3u

+ bash script (playlist.sh)
↳ bash script makes
liquid soap stream the
audio to the ice cast server

tmux → creates sessions in terminal
that's shareable
→ allows to run scripts while
logging out

↳ tmux -S /tmp/radio new -s radio
↳ create tmux session
↳ tmux -S /tmp/radio attach -t radio -r
↳ join tmux session
g
readonly

↳ ctr - b d
↳ leave tmux session (script stays
running)

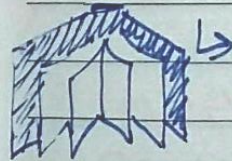
↳ start the playlist.sh bash script
to start the stream

VACATION

Group reading session 7.05.20



- Digital neo colonialism and
massive Open Online Courses
(MOOCs): Colonial taste of
neoliberal Futures



↳ Imaginary computational
systems: queer technology
and transreal aesthetics.

PROTOTYPING

12.05.20

with Michael

FTP - File Transfer Protocol

↳ unsecure / old

SFTP

↳ SSH - File Transfer Protocol

GIT/ Webhooks → allow for
GITEA implementation of
scripts on a
repository

CGI → ~~Script~~ script running in browser
(eg. for leaving comments etc.)

[webhook.cgi → when posting will be
triggered and update
the website on the
sandbox]

↳ web.xpub.nl/sandbox/12/
to in `var/www/html`

Adding an audio player in `html`

```
<audio controls>  
<source src = "url.x" type = "audio/ogg">  
</audio>
```

On the sandbox `cp` the
content of `liquidsoap` (`var/www/html/`
to home folder 12/
(`playlist.liq` & `password.liq`)

Change the mount to `vm`
(`uano`) in the `playlist.liq`
(and for trouble shooting name
individually the `log` file)

Run the `playlist.liq`

```
liquidsoap -v playlist.liq
```

Creating basic `.sh` script to
play a ~~single~~ file through the
sand icecast server

```
live -interrupt.liq
```

creates a fallback option
→ tries to run another stream,
if not available will fallback
to the fallback option

Prepping the B-cast 14 May 20

- Update website
- Upload prepared content to the dir. on the sandbox (properly named)
- Update pad w. resources & links
- Make playlist on the sandbox

▶ Seda Guerses

? Caring ↔ full transparency?

- Adjust playlist, lig & TEST
- Start broadcast (TMUX)

```
■ scp file hub.sandbox:/.../dir
```

```
■ ls *.extension >> playlist.m3u
```

```
■ tmux -S /dir/... new -S radio
```

```
■ tmux -S /dir/... attach -t radio -r
```

```
■ ctr -b d
```

```
■ liquidsoap -v playlist.lig
```

18. Mai 20

RW & Rm w. Steve

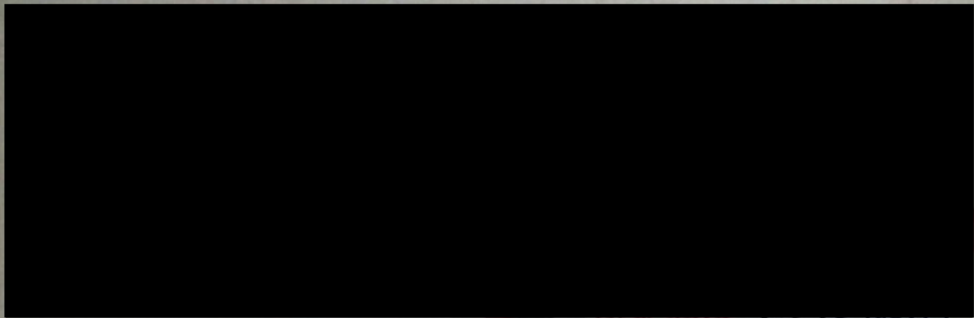
Swarming: From Epistophies
Jazz and the Literary Imagination
Brent Hayes Edwards ('07)

Developing ideas on how to use this material for creating a broadcast.

DATA →

18. Mai 20

Preparing for the workshop on wednesday



PROTOTYPING with Michael 15.05.2020

→ Sandbox → /home/Max → bash join.sh
to guide join tmux session

chgrp publicweb /tmp/name
↳ change group permission
to public (publicweb is a group)

In tmux: groups
↳ shows permissions

su radio → to become radiousr
PW: implicancies

live_interrupt.lig

in liquidsoap script
set log to false to turn of log
↳ ~~set~~ ("log.file", false)
comment out (#) next line

radio = mksafe (radio)
↳ makes sources safe!

[input .4Hp ("url"), ...]
↳ gets an input and streams
it to the mount

Detach correctly:

ctr b + ctr b + d

radio = normalize (radio)

radio = playlist ("playlist.m3u",
mode = "xyz")

xyz = different modes:

- ↳ normal
- ↳ randomized (random order)
- ↳ random (complete madness)

```
output.icecast (% Vorbis
host = ICECAST_SERVER_HOST, port =
password = ICECAST_SERVER_PASSWORD,
mount = "URL-PART.ogg", radio)
```

```
output.file (% mp3, "name.mp3",
radio, fallible = true)
↳ outputs file (can be the only
output !!)
```

```
set ("log.file", false)
set ("log.stdout", true)
```

```
myradio = audio_to_stereo (playlist
.once ("playlist.m3u"))
```

```
out (myradio)
output.file (% mp3, "playlist.m3u",
myradio, fallible = true)
```

ogginfo file.ogg → gives info

Tutorial w. Michael
creating a player in the public.html
and having a speaklines.sh
script read out numbers → put
them (output files) in a playlist
→ create a file set of that
and a .vtt caption file.
embed them in a HTML file con-
taining a player. Open HTML in browser

```
ffmpeg -i file.ext -filter_complex "showwaves pic =
s=1024x120:colors=000000"-frames:v 1 -y
outfile.ext
```

↳ renders input file to a wave-
form image

Remaking 12.1 as a archivable
file including meta-data & time stamps

- 1 Remake the playlist (all srcs in.ogg)
- 2 Add meta data
- 3 playlist.once → output.file
- 4 create a matching vtt file
- 5 Make a nice player (html)

vorbiscomment to add metadata

always
overwrite

ffmpeg -y -i ~~file.ext~~ file.ogg
↳ convert a file to .ogg

vorbiscomment -t "file=FILENAME" -t "author=
= author1, author2" -t "episode=
12.1" -w FILENAME.ogg

▶ working on dynamic ~~titles~~ titles
in the audio player (now playing)

Queering damage workshop with
Helen Pritchard

20. Mai. 20

looking at situations in which peo-
ple live with a form of
damage in order to improve
software studies

▶ The oil gobbler ◀

The oil gobbler is an organism
that flourishes with damage

Queering damage is to accept damage
as it is rather than fixing it
↳ stabilizing
The practice of Queering Damage
is non-linear & partly fictional

Interviewing damage:

- What is going on here?
- Which agencies are involved?
- Wheres - situatedness, distribution
- Whens - temporality, durability
- Semiotic-materialities - what signs
and matters are at work?
- Your entanglement
- Can a pattern be identified? struc-
tural or singular?

Jungle Vocals

publishing	hustling
fuck this thing	rushing (language)
rock this thing	the brushes thing
listening	

Experimental ~~fuck this~~ listening

Experimental listening

if you don't understand

you should swear this thing

Every week we are hustling
to produce language that is
rushing.

We use liquid soap hot to
wash our hands

But to stream this podcast

Mikro Makro Nomos Logos

import export impose compose

Experimental publishing, every thursday
we stream this thing

RS = {Raindance; Radical Software; Media Ecology}

25.05.20



= Nancy Holt & Richard Serra, Boomerang
(1974)

①

= Richard Serra "TV delivers people"
(1973)

②

= Dan Graham "Delay Room"
(1997?)

③

= Beryl Krot explains Radical Software
and the term Media Ecology

④

= The exhibition at ~~ZKM~~ ZKM
"Radical Software. The Raindance Found.
for Media Ecology & Video Art"

⑤

= Interview w. artist and Radical
Software editor - Beryl Krot

⑥

= Interview w. Video Artist & Raindance

⑦ Co-Founder Frank Gillette

① = Distance, trouble connecting thoughts, filling a vocal void, words in her mind are detached from the normal thinking process, she feels as she is not where she is words keep tumbling as she wants to hear them, ~~the~~ words become things boomerang^{ing} back, my mind surrounds me, no escape

↳ First time artist got access to the techniques of delay

② The product of commercial TV is the viewer

Mass media means that a media can deliver a mass of people, the advertiser consumes you, you are the end product of TV, TV teaches materialistic consumption,

We are persuaded daily by a commercial oligarchy, propaganda for profit, framing, soft propaganda = entertainment, controlling broadcast = controlling society

TV = exposure to ideas / ~~convey~~ info.
New media state depends on TV / propaganda - corporation control the state, Corp. are not responsible to anyone, consumer spends the money,

↳ Today social media

③ Man walks in - two screens, one seems to live (~~left~~ right), the other is delayed, black screen on the edit, other man looking at screen, man leaving, looking

↳ looking at your own past self

↳ Coextensive system (series of nodes which build up an environment → ecology)

↳ Homeostasis

④ Radical Software 1970-1974

First video tape recorder (porta pack),
people coming into movie theaters
presenting their video material,
r.s. = a way to deal w new tech,
why are you using video, what
experiments did you make,
magazine to connect the artists,
media ecology - what is the im-
pact of media on us?
Tech needs to be humanized,
cable TV promising unlimited info,
no holding that promise,

⑤ Ausstellung präzis Arbeiter
einer Wegweisender Gruppe
Künstlern & Wissenschaftler
neue Technik Welt verändern

Frage Verhältnis Medien
Macht

Lebens gestalten
Macht = Information

Freelancers, journalists

kollektiv partizipatorisch/
manipulatorisch
approaches to tech

videos Installationen

write cycle teil einer v.
Medien Geschichte
inner
rekonstruiert

tracks trace / echo



Viewer as
3 Blickw.
+ delayed
zeitverzögerung

↘ effekt von sich
außen

effekt sein eigen
Verhalten beobachten
Momente der Ver-
gangenheit überlegen

Traditionen d. Landschafts malen
unter den Bedingungen Medien

Dadurch Geschichte streng form
Detail in einer Zeichnung

R.S. wichtigste Forum f
radikale Medienkritik
keller zugang zur information
werkzeuge Leben-
Pragmatismus Gestalten

⑥ >> Skip >>

⑦ R.S. = very ^{loose} ~~loose~~ editorial structure,
Everybody who responded to a
newsletter got published, no
traditional editing, only for juxtapose
topics: media environment, disrupt
the relation of broadcaster & viewer,
new formats, information about
the world you live in, different
from the ones you got on mass media
video tape = programming, impact
on political culture, that every-
body could have a voice?
text (lat. origin) means weave

Feedback systems

a governor is a valve that
regulates pressure within a steam
powered machine

Machine ↔ Human
↳ capacity

↳ Natural selection is like a
machine with a governor

↳ consciousness emerges through
interactions with the world

↳ Mind is produced in the environment

Producing Feedback-mechanisms
to change peoples perception

New understanding of the indivi-
duals nervous system and the rela-
tion to the environment

thinking = adjusting to your environment
↳ = behaviour

▶ P · O · O · Y · I · N · G ◀

— 26. May 2020 — /// — with Michael —

Preping a TEST-stream with `replay Gain` for a more overall "normalized" output

`cue-cut` cuts audio, by acquiring cue points from the meta data

`annotate` can overwrite meta data. Used in the (liqsoap) playlist

`liq-cue-out (or in) = X` ← ^{sec}
↳ put in front of the audio in the .m3u playlist

`radio = cue-cut (radio)`
↳ in the liquid soap script to activate the FX

`map-metadata`

↳ add this to the liq script to add meta data

FX/commands:

`radio = playlist.once ("playlist")`

↳ don't loop

`radio = audio-to-stereo (radio)`

↳ convert all mono to stereo

`radio = cue-cut (radio)`

↳ Activate cutting off audio using cue points

`radio = mk-safe (radio)`

↳ make audio safe

`radio = map-metadata (add-cue-cut,`

`radio)`
↳ adds meta data according to the script → see next page

`enable-replaygain-metadata ()`

(`S= amplify (1, override="replay-gain", S)`)

`radio = amplify (1, override="replay-gain", radio)`

↳ Turns on a replay gain normalizer.

`radio = helium (radio)`

↳ Helium effect

`radio = random ([in1, in2])`

= Comment

Automating checkpoints/me to data

Defining a function in the liqscript

```
def add_me_out (m) =  
  ["liq-me-out", "5"]  
end
```

define a custom named function

vorbisgain *.ogg

- ↳ adds gain info to metadata
- ↳ This is needed for replay gain

Extracting Meta Data from liquid soap and display them on the webpage using Web Sockets & Javascript

- ↳ pipe server

m3u shuffler -o out-file.m3u in-file.m3u

- ↳ shuffles a m3u playlist and creates a new file

Talking with Females

27.05.20

- Agility
- comfort / discomfort
- Question the systems
- Fast prototyping
- Allowing an external agent to intervene

↳ consider 1st trimester work / tools / refs
machine agents & sound

↳ try to be lazy

↳ switch on experience again
reconnect

27.05.20

Vernacular language processing toolkit
with Christina Cochior & Julie Boschat Thorez

[Rearranging the course structure]

Structured
Data

Unstructured
Data

Structured Data

Data that is structured so it can be read by machines

Unstructured Data

Language we use to communicate to humans

Vocabulary

Words to use when communicating (text, speech)

- A selection of unrelated terms, list of predefined terms

- Ontological: categorizing

Comparison

espeak

espeak --stdout -f text.txt > text.wav

sox

sox -m file1.wav file2.wav out.wav

fluidsynth

soxi file → info

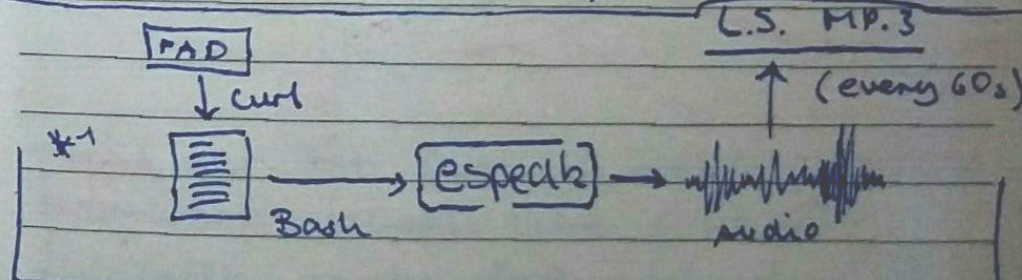
Prototyping w. Michael 2.06.20

Amazon Polly → lifelike speech synth

mbrola (voices for espeak)

Arival & Max's Idea for 12.4

→ live component * 1 (MP3)
→ *1 / preparation (MP2)
→ (Mountpoint 1) (Fallback)



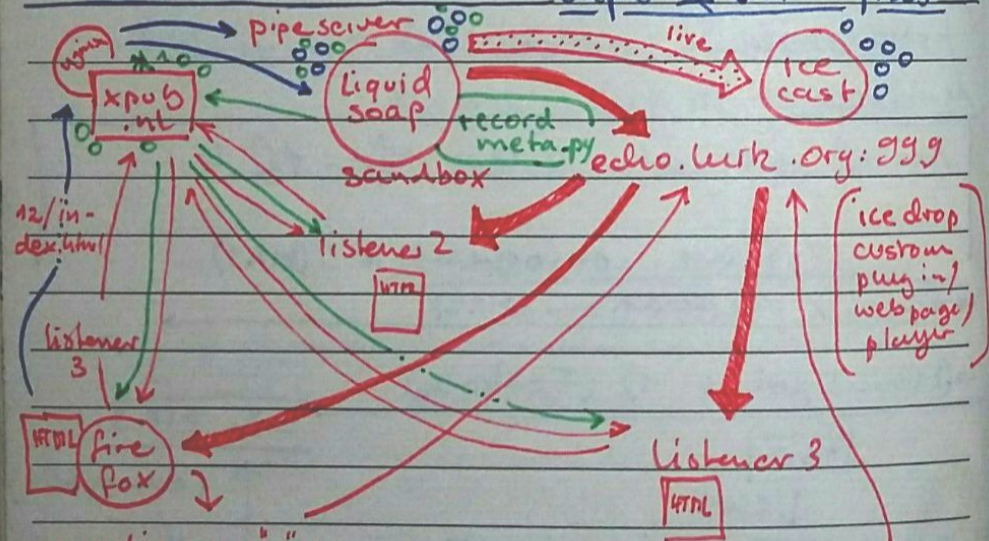
see change → triggered by .v# file
• metadata going through LS (ogg files) making one ogg file and then reextracting it


```

<div class="audio-00">
<audio controls>
<source src="audio.mp3"
type="audio/mp3">
<track default kind="captions"
srclang="en"
src="file.vtt"/>
</audio>
</div>

```

combining
mp3 & vtt files



```

<audio src="...">

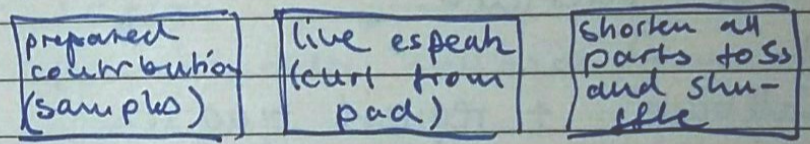
```

- regular connections
 - high intensity cons
 - live connections
 - meta data connections (not ideal)
 - meta data (not ideal)
 - meta data connections (better)
 - meta data better
- *¹ radio im-
plications.cgi

cgi = common gate way interface

embedding new meta data infrastructure

Avital & Max



we have control

listener has control

nobody has control/machine is in control

m-a.sh snippets + espeak = 1 file

annotations on a pad being read out (line by line?)

create playlist of everything, shorten & shuffle

- ▶ read out txt files & create audio
- ▶ convert sample rate & stereo
- ▶ create main file (& upload?)
- ▶ curl from pad to txt file
- ▶ read out hist txt (line by line?)
- ▶ stream that live? (& create files)

- ↓ create a playlist of everything
- ↓ ~~shuffle~~ shorten all clips to 5s
- ↓ shuffle
- ↓ stream

LS has a request mechanism
 ↳ live interface

fallback + request queue
 ↳ if a request arrives it uses
 the next track - break to
 play that

(playlists → reload when changed?)

script that connects to the
 server and makes a request

interaction w/ server
 ("server.tell" = true)

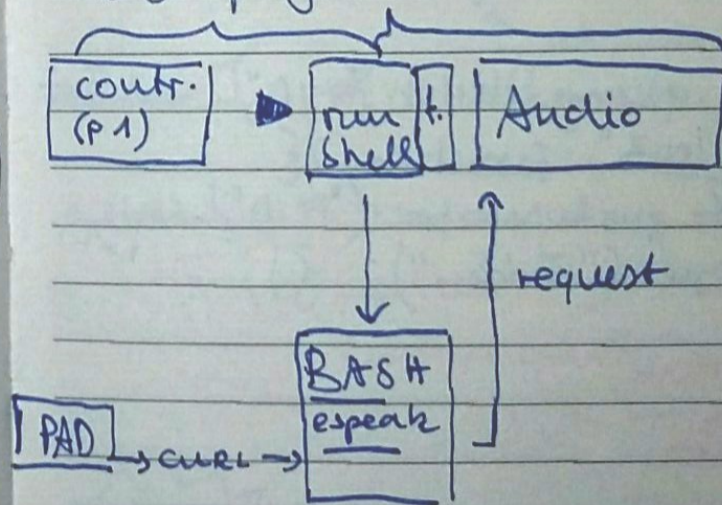
→ complete case analysis

→ pulls text, renders, and makes
 a request

→ trade sensitive = true?

→ system call that triggers a
 script.
 (on metadata callback / run shell)

LS playlist



→ dynamic requests / harbor
 (request.create
 request.dynamic)

chgrp public web /tmp/groupware
↳ make tmp public

"\${X%.ext}"

↳ keep original filename

prototyping w. michael - 03.06.20 >>>>>>>>>>>>>>>>>>

JavaScript & CSS open/close boxes
in CSS:

#ID.hidden { display: none;}	#ID
---------------------------------	-----

in JS

```
document.querySelector("#ID").addEventListener("load", function() {  
  document.querySelector("#ID").classList.remove("hidden");  
});
```

↓
can be toggle
to be able to
close again

JavaScript is non linear and triggered
by events, e.g. a click
(→ event handler)

<div ...>

~~console.log("sahts.");~~

```
document.querySelector("#ID").addEventListener("click",  
function (e) {  
  console.log("click", e);  
  document.querySelector("#ID2").classList.toggleremove("hidden");  
});
```

CSS → stack selectors e.g.:

#ID.class

↑ all element.class
within any #ID element

Americ Wednesday 10.06.20

Free Culture,
Copyright &

Jub Music

CRASH

Course in Jamaican
Music History

blessed

jamaica

Mento = Jamaican Folk Music
(late 19th cent.) ↳ very little trace of
live bands, due to
missing music distribution
infra structure. Predates
Reggae & Ska - fusion of
African & European influences

Rhythm & Blues = Music from New Orleans
(1940-50) circulating the colonies.
Bad in power between
African Americans (in the
US) or connecting to
their roots - exported
from the US. Added
Swing... Gospel influences
Recorded live - rise
of studios in Jamaica &
sound engineer culture

Ska = Folk & Popular, live & studio
(late 1950s) More focus on production
quality - bouncy, light

Jamaica being influenced
by the UK & US (culture &
music wise) Added reference
from outside of Jamaica
(later appropriated by whites
& white skin head) Made
the sound system culture more
popular

Rocksteady = more focus on Bass,
(~1966) linked to sound systems
Darker and slower.
Influenced by Jazz, R&B,
also Cuban, Caribbean soul
& African drumming
More articulated bass & rhythm
on the 3rd count - rim
'Rudeboys' neatly dressed,
making a mess in competing
sound systems - Clean mix

Transition = Hard to pinpoint genre
to Reggae Start of economic discussion
(political tendencies)

↓
Reggae = Slower tempo, guitar/piano
(late 1960s) offbeats, emphasis on
the 3rd beat. In the
lyrics questions of class,
culture and suppression
became more present
Golden age of music
producers - shaping the sound
↓

Dub = Using instrumentals, sometimes
(late 1960s, sometimes only
early 1970s) the riddim (Bass + Drums)
and then adding FX
and dubbing it w/ samples
from the original or
other tracks (very little
Vocals) - Producers becoming
more important than musicians
DIY, radical, bottom-up

Dub is known to be a rebellious
way practice open culture approaches
& including border-line anti-capitalist

themes. They were set up to cut
vinyls & promote them through
sound systems. Musicians had no
rights to the music. They were
asked to ~~cut~~ constantly record
material, to later be accessed.
A myth says that King Tubby created
Dub by accident (forgot to add
the vocals back in) using that
as a "teaser" to promote and
a toaster (MC) to improvise.
This became a practice. The S.S. never
would get the actual song, just a
debate. These dub plates would
be sold expensively to the S.S.
that were dependant on the dubs.
(Dubs would degrade over time)
Dub at the end became a very
exploitative system due to this.
(The studios would build data-
bases of musician recordings)
Dub would also "destroy" the
lyrics of tracks, turning them on & off

For a couple of years, due to their exploitative practices, Dub became illegal to broadcast for a few years (in Jamaica)

(^{we} and so could pressure the musicians to comply to whatever requirements.)

↳ Ultra liberal, capitalist interpretation of ^{cultural} copyright - the only ones profiting were the producers who could assemble the material
⇒ free culture?

(→ Flicher, licenses & print profit)

Dub has this paradox in it on how cultural appropriation / sharing / open culture can be good (liberating) and bad (exploitative) at the same time.

→ chmod 644 file
↳ make read, write by everyone

Wrap Up 8/12

15.06.20

Feedback: ▣ Very nice switch of topic, medium

▣ Quite react to our feedback

▣ Nice individual feedback

▣ Great combination w. Michael

▣ troubles following the wednesday lectures
↳ missing context, a bit unstructured, very abstract, complex language
↳ no summaries,
↳ saying what to talk about in 1 sentence - using easy language - summarizing