



Human-Audio Interaction Lab  
[hailbringer.com](http://hailbringer.com)



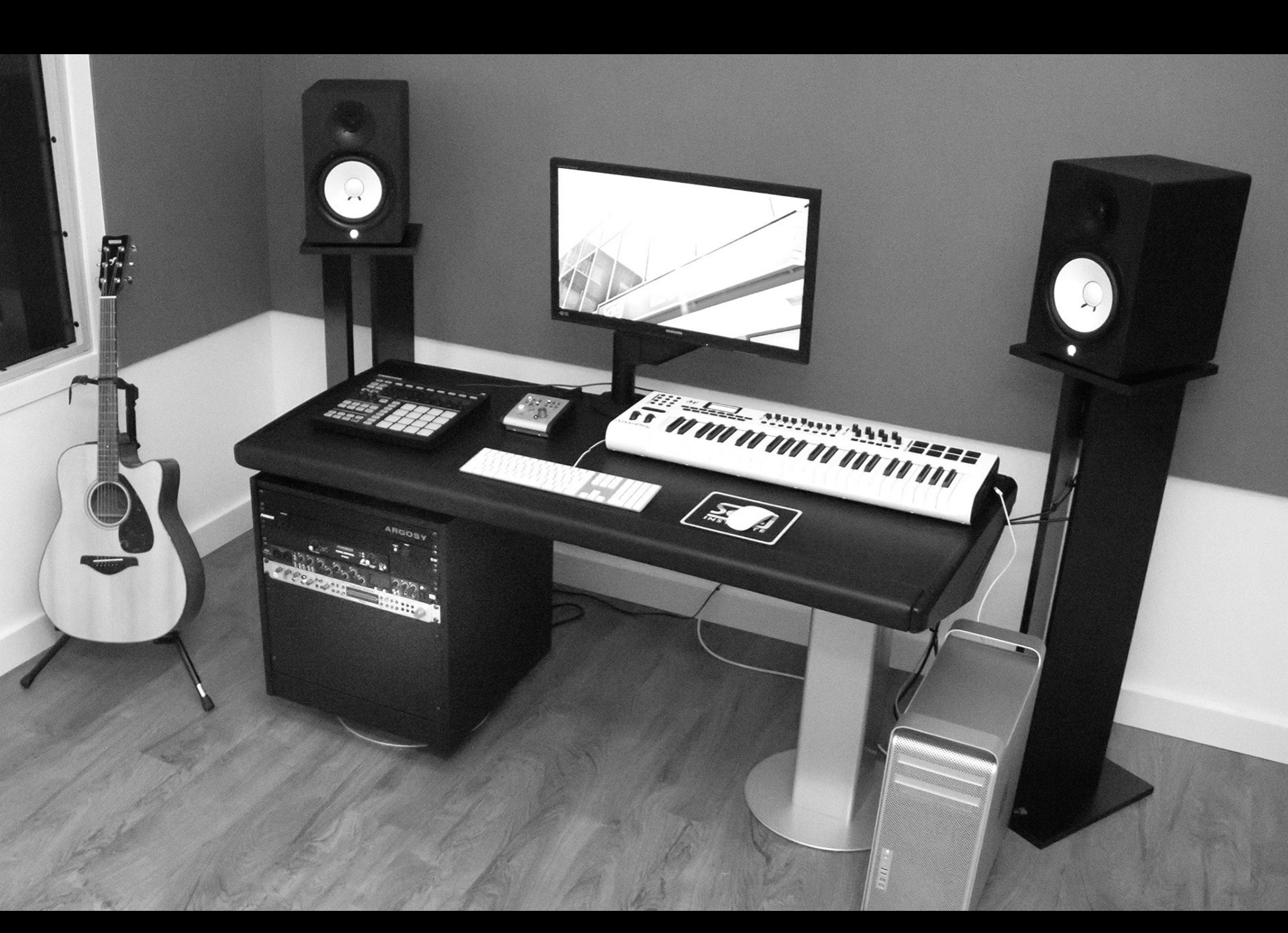










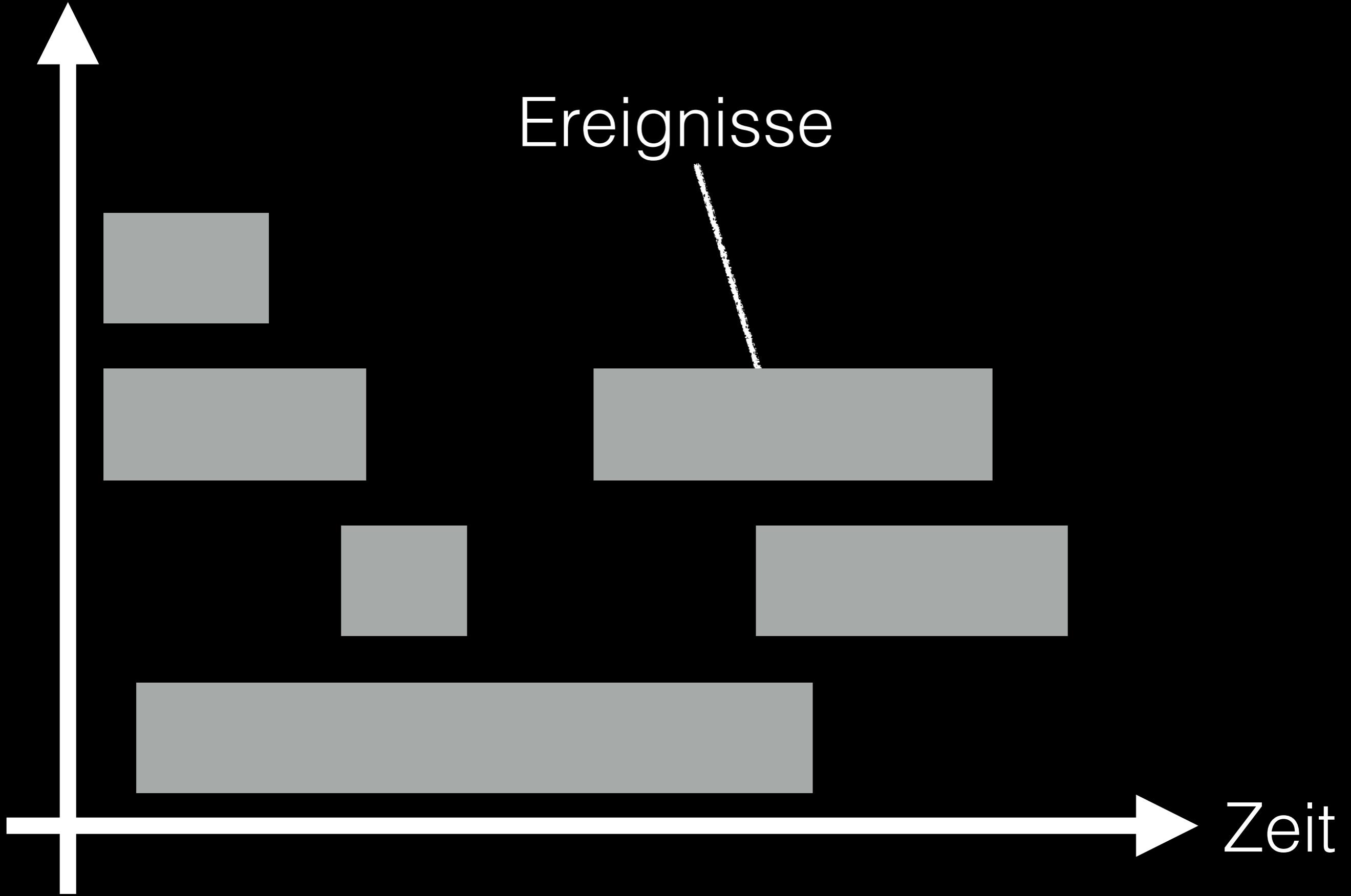


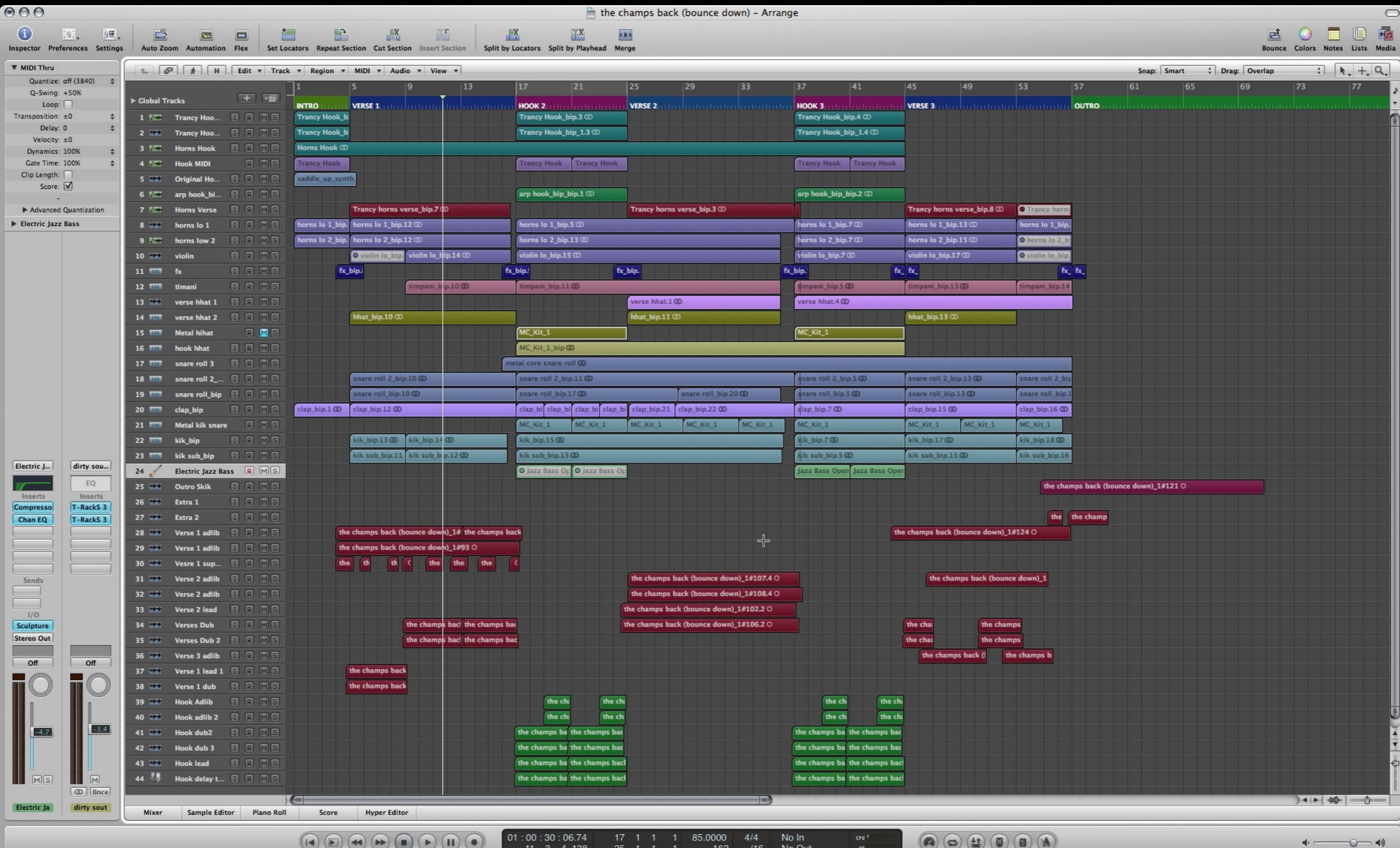


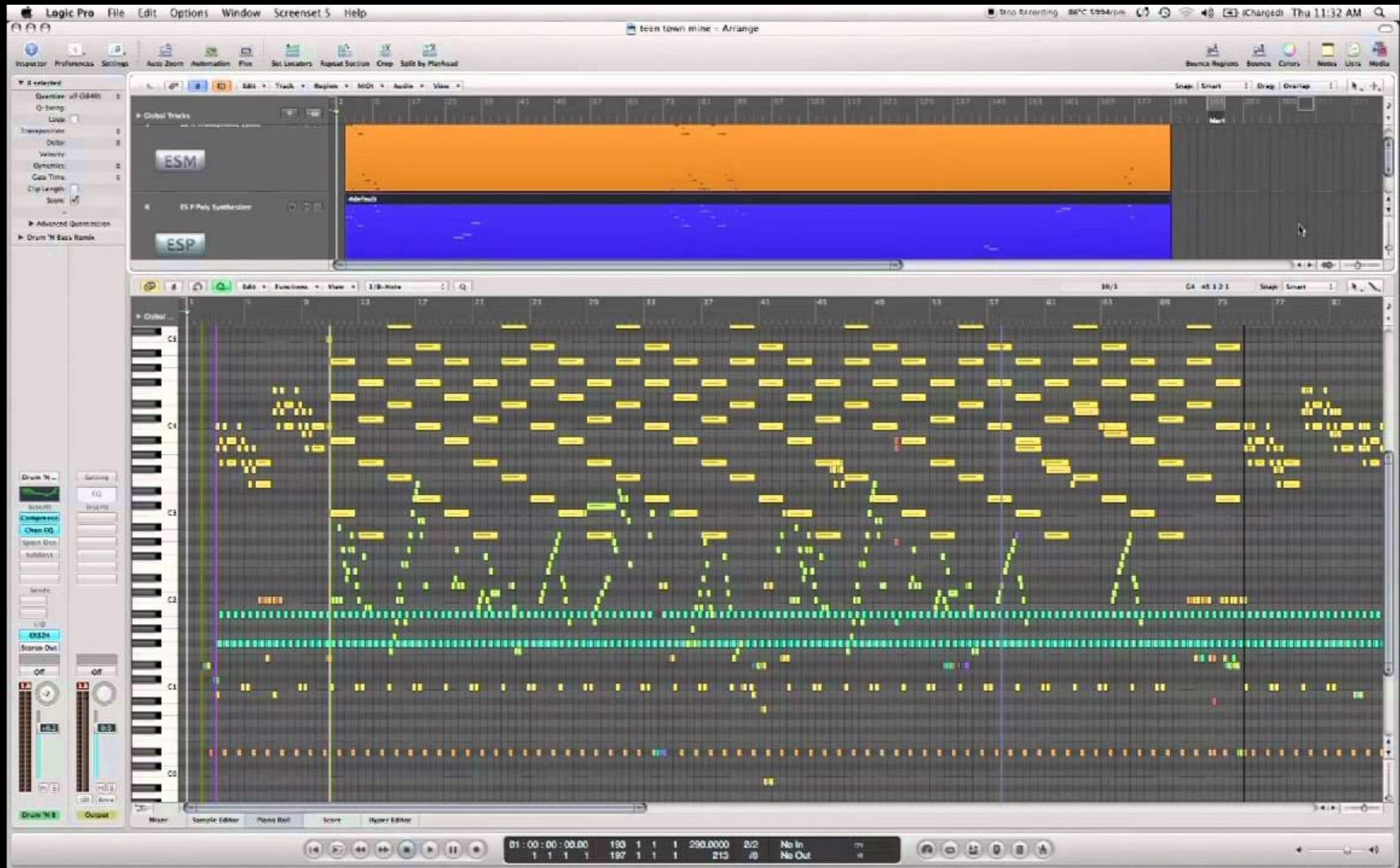




# Klang









The Roots – Marathon Man Remix (Stereo) – Arrange

Inspector Preferences Settings Auto Zoom Automation Set Locators Repeat Section Cut Section Insert Section Split by Locators Split by Playhead Merge

Bounce Colors Lists Media

**Movie**

Marker Intro Verse 1

Snap: Smart Drag: No Overlap

Global Tracks

- Dice Hook A
- Dice Hook B
- Dice FX A
- Dice FX B
- Hook Bounce
- Sub Bass
- Synth Glide
- Synth Bubbles
- Synth Pops
- Synth Pops Shadow
- EVP Toy Electric Piano
- Sine Wave
- Harp
- Synth Arpeggio
- Little Beat
- Large Beat
- Ultrabeat: Roots Kit
- Ultrabeat: Snare

1 2 3 4 5 6 7 8 9 10 11 12 13 14

11 selected Synth Pops

Jan-Hinn... Setting EQ Inserts Multipress AdLimit Chan EQ Sends Bus 1 I/O ES2 Out 1-2 Inst 6 2 Off 7.8 +3.1 Read 0.1 0.0 Bncc M S

Bin Loops Library Browser

Audio File Edit View

Name Info

- Dice#04.aif 44100 24 Bit 4.0 MB
- Dice#04.14
- Dice#04.16
- Dice#04.17
- Dice#04.18
- Dice#05.aif 44100 24 Bit 4.0 MB
- Dice#05.18
- Dice#05.20
- Dice#05.21
- Dice#05.22
- Dice#06.aif 44100 24 Bit 4.1 MB
- Dice#06.13
- Dice#06.15
- Dice#06.16
- Dice#06.17
- hook master.wav 44100 16 Bit 38.1 MB
- Hook Bounce 1
- Hook Bounce 2
- Hook Bounce 3
- Hook Bounce 4
- Lead Vocal V 1.wav 44100 24 Bit 28.4 MB
- BT Verse 1
- BT Verse 1 FX
- Lead Vocal V 2.wav 44100 24 Bit 28.4 MB
- BT Verse 2
- BT Verse 2 FX
- Lead Vocal V 3.wav 44100 24 Bit 28.4 MB
- BT Verse 3
- BT Verse 3 FX
- percussion loop.wav 44100 24 Bit 60.1 MB
- percussion loop.69
- percussion loop.wav 44100 24 Bit 60.1 MB
- percussion loop.168

01 : 00 : 17 : 21.39 1 1 1 1 101.9900 4/4 No In CPU HD

8 3 2 105 1 1 1 1 93 /16 No Out

Mixer Sample Editor Piano Roll Score Hyper Editor



A screenshot of a digital audio workstation (DAW) interface, likely Logic Pro X. The top window is titled "Violence of Audio 2 - Arrange". It shows a stereo spread effect with two EQ sections (Lower Int. and Upper Int.) and a central graphic equalizer. The main track is labeled "Bright Funky Crunch". To the right, a track list includes "Audio 1#13.1 O", "Prechorus", "Audio 4#01 O", and "Audio 2#09 O". Below the main window, there are two other windows: one titled "Clip Distortion" showing a guitar amp model ("Guitar Amp Pro") with a speaker icon, and another titled "Noise Gate" with various threshold and attack parameters. The left side of the screen features a rack of effects and a mixer section with faders and knobs. The bottom of the screen displays transport controls and a timeline.

Sweet December Broadcast - Chipmunk - Mixer: Arrange

Logic Pro Mixer: Arrange View

Single Arrange All Audio Inst Aux Bus Input Output Master MIDI

✓ No Plug-in

- Amps and Pedals
- Delay
- Distortion
- Dynamics
- EQ
- Filter
- Imaging
- Metering
- Modulation
- Pitch
- Reverb
- Specialized
- Utility

**Audio Units**

- Antares
- Apple
- iZotope
- Wave Arts
- AUBandpass
- AUDelay
- AUDistortion
- AUDynamicsProcessor
- AUFilter
- AUGraphicEQ
- AUHighShelfFilter
- AUHipass
- AULowpass
- AULowShelfFilter
- AUMatrixReverb
- AUMultibandCompressor
- AUNetSend
- AUParametricEQ
- AUPeakLimiter
- AUPitch
- AURogerBeep
- AUSampleDelay

Read

Tom 5 Johnny Kic 6 Riff 7 Guitar 8 Chorus 9 Bass 10 Clap 11 Clap 2 12 Choir 16 Im Coming 17 Verse 1 18 Riff 19 Riff 20 Riff 21 Male Voice Broadcast Master



**DEEP BEAT - Tracks**

bar 97 beat 3 div 188 tick 75 bpm Cmaj key 4/4 signature

**Region: MIDI Thru**

- Mute:
- Loop:
- Quantize: off
- Q-Swing: +50%
- Transpose: ±0
- Velocity: ±0
- More

**Track: Fizzy Beats**

Fizzy Beats

Setting

EQ

Bus 2

Compressor

Channel EQ

Send

Stereo Out

Latch

Read

0.0 -2.5

0.0 -0.5

0 3 6 9 12 15 18 21 24 30 35 40 45 50 55 60

Bncc

M S

Fizzy Beats

Output

**1 Fizzy Beats**

M S R Muted

**8 Fem...bpm**

M S I Read Volume -7.6 dB

**9 Wav...Bass**

M S R Latch Filter -0.40

**10 Vinta...Bass**

M S R Read Volume -7.6 dB

**11 Elastic Lead**

M S R Read Volume -20.5 dB

**12 Elect...Buzz**

M S R Latch Cutoff 0.862

**13 Strin...mble**

M S R

**SEQUENCER**

ON/OFF

PLAY

PATTERN BY NOTE

**KICK**

KICK FX

**SNARE**

SNARE FX

**HI HAT**

HI HAT FX

**MIX**

**PERCUSSION**

PERCUSSION FX

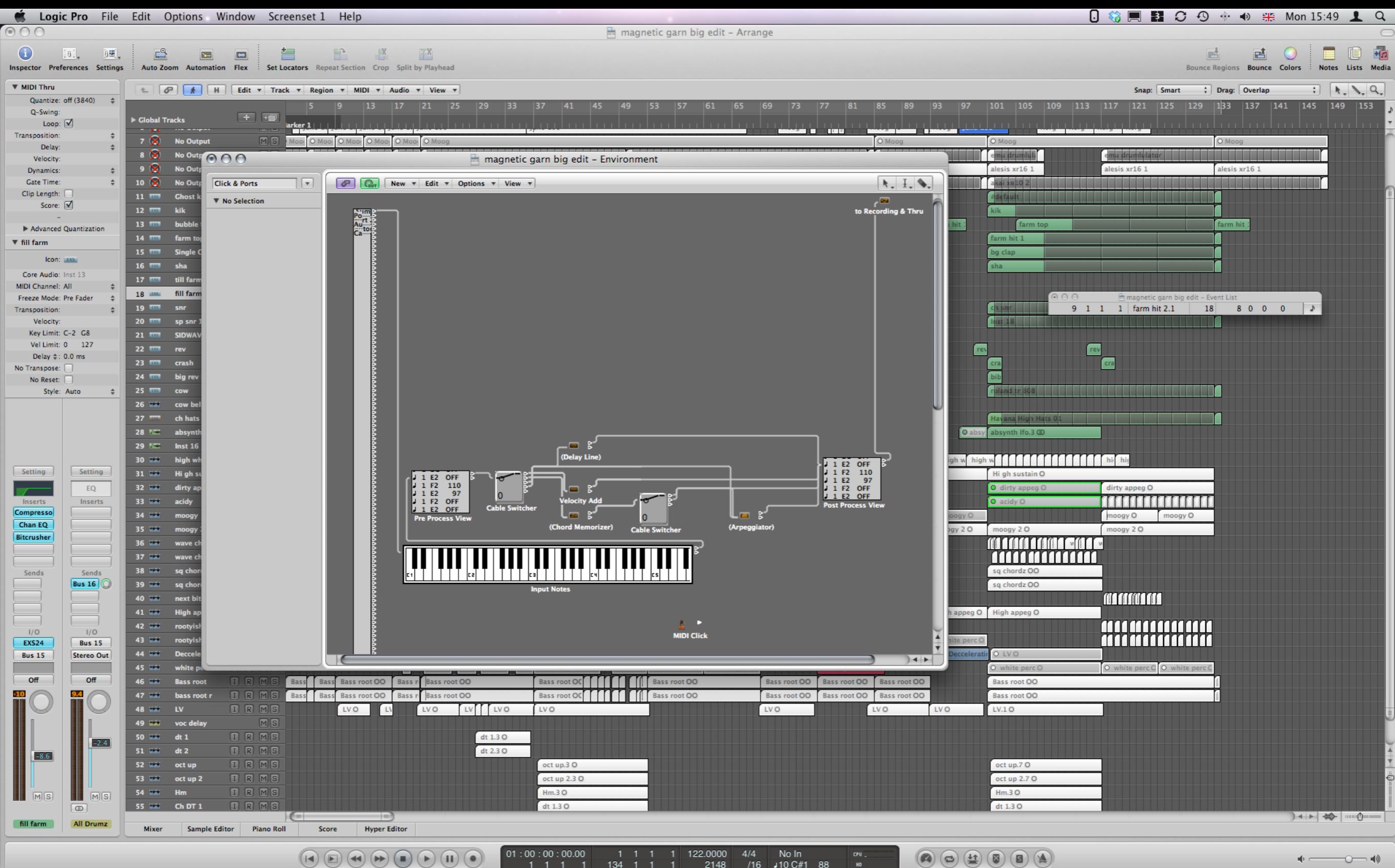
**MASTER**

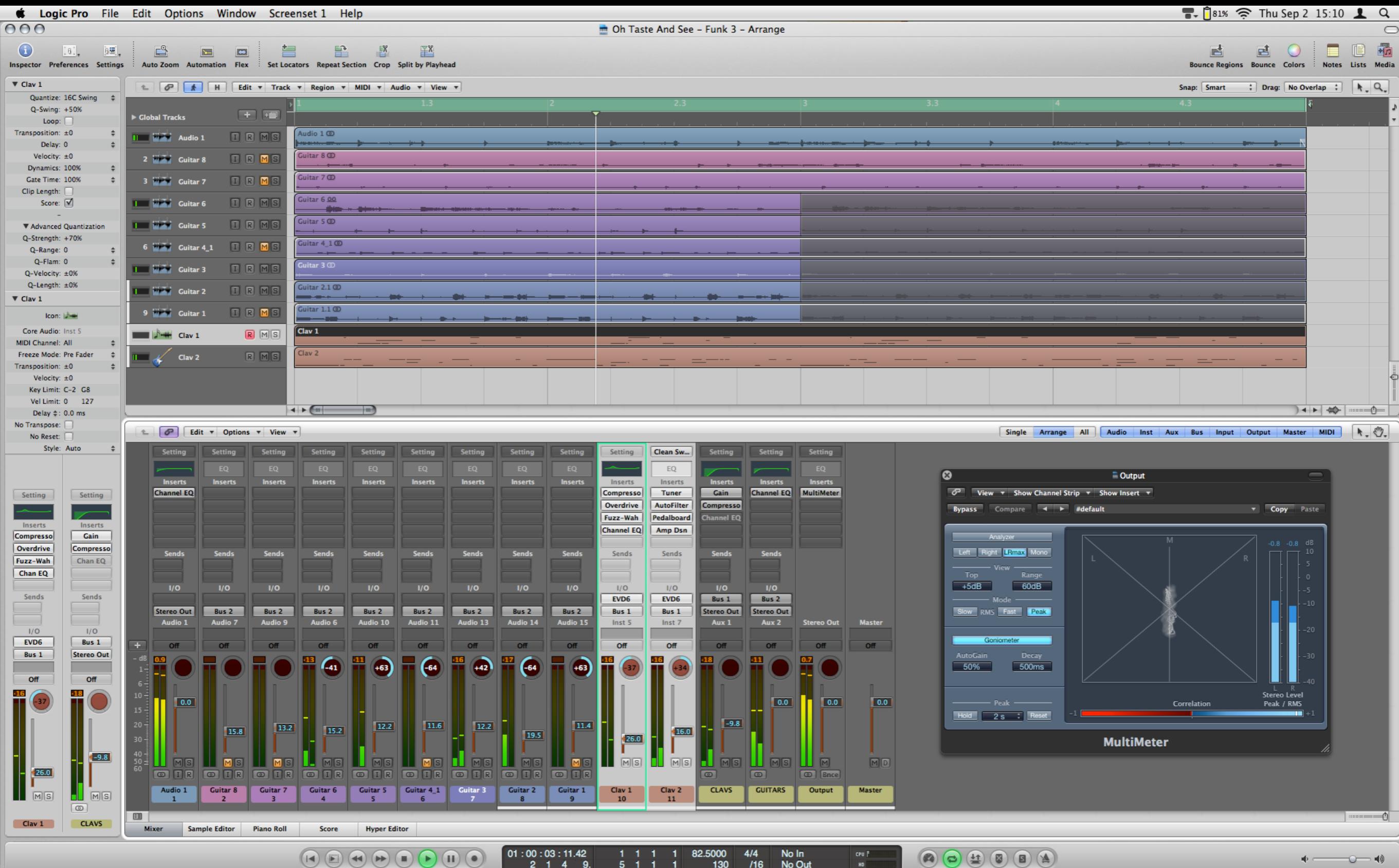
COMPRESSOR

REVERB



OBEDIA





/Users/admin/Music/Logic/Ep16a.logicx/Media/Audio Files/Ep16\_1#01.aif





# Song-Datei



## Instrument

## Part

## Kadenz

## Akkord

## Note

## Klangfarbe



## List of Requirements

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the champs back (bounce down) – Arrange

MIDI Thru

Quantize: off (3840)  
Q-Swing: +50%  
Loop:   
Transposition: ±0  
Delay: 0  
Velocity: ±0  
Dynamics: 100%  
Gate Time: 100%  
Clip Length:   
Score:

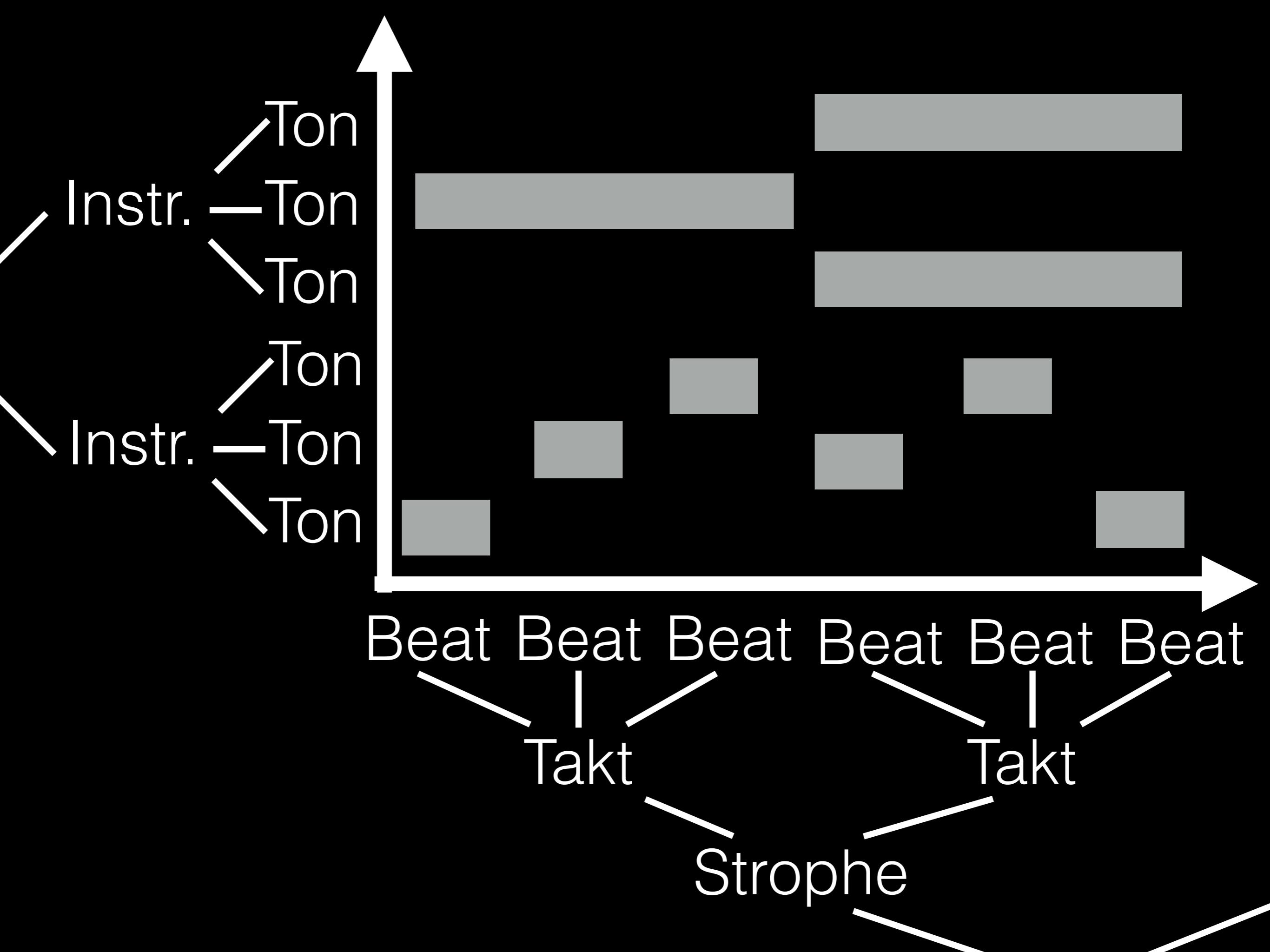
Advanced Quantization

Electric Jazz Bass

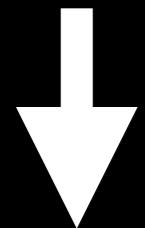
dirty sou...  
EQ  
Inserts  
Compresso  
Chan EQ  
Sends  
I/O  
Sculpture  
Stereo Out  
Off  
Off  
-4.7  
-3.4  
M S  
Bnce  
Electric Ja  
dirty sout

Snaps: Smart  
Drag: Overlap

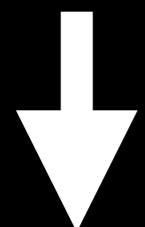
01 : 00 : 30 : 06.74 17 1 1 1 85.0000 4/4 No In CPU 1 HD  
11 3 4 138. 25 1 1 1 162 /16 No Out



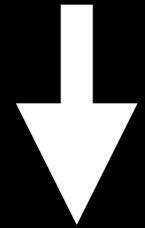
Song-Datei



Instrumente

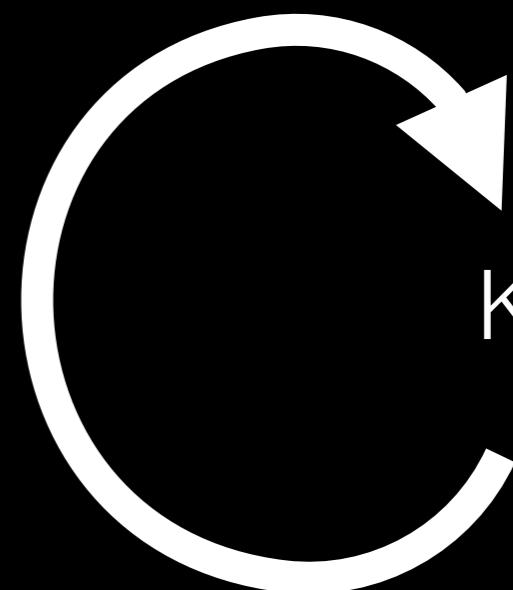


Audio-/MIDI-Regionen



Audio-/Midi-Daten

Bibliothek



Klang

## Sweet December Broadcast - Chipmunk - Mixer: Arrange

Logic Pro Mixer: Arrange screen showing the Sweet December Broadcast session. The interface includes a toolbar at the top with buttons for Single, Arrange, All, Audio, Inst, Aux, Bus, Input, Output, Master, and MIDI. The main area displays 24 channels, each with faders, meters, and various processing controls like EQ, Insert, and Sends. A context menu is open over channel 16, listing options such as Shft II, Chan EQ, Noise Gate, etc., followed by a separator line and a list of plug-in categories: Amps and Pedals, Delay, Distortion, Dynamics, EQ, Filter, Imaging, Metering, Modulation, Pitch, Reverb, Specialized, and Utility. The 'Audio Units' category is selected, revealing a submenu with entries for Antares, Apple, iZotope, Wave Arts, and other Apple AU plug-ins.





mobil

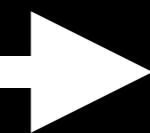
Instrument  
Apps

Garage Band

Instrument  
Plugins

Logic Pro

?



ganzheitlich

## **Application-Level Services**

**Audio Queue Services**

**System sounds**

**Audio units**

**Audio File Stream Services**

**Audio File, Converter, and Codec Services**

**OpenAL**

**Music Sequencing Services**

**Core Audio clock**

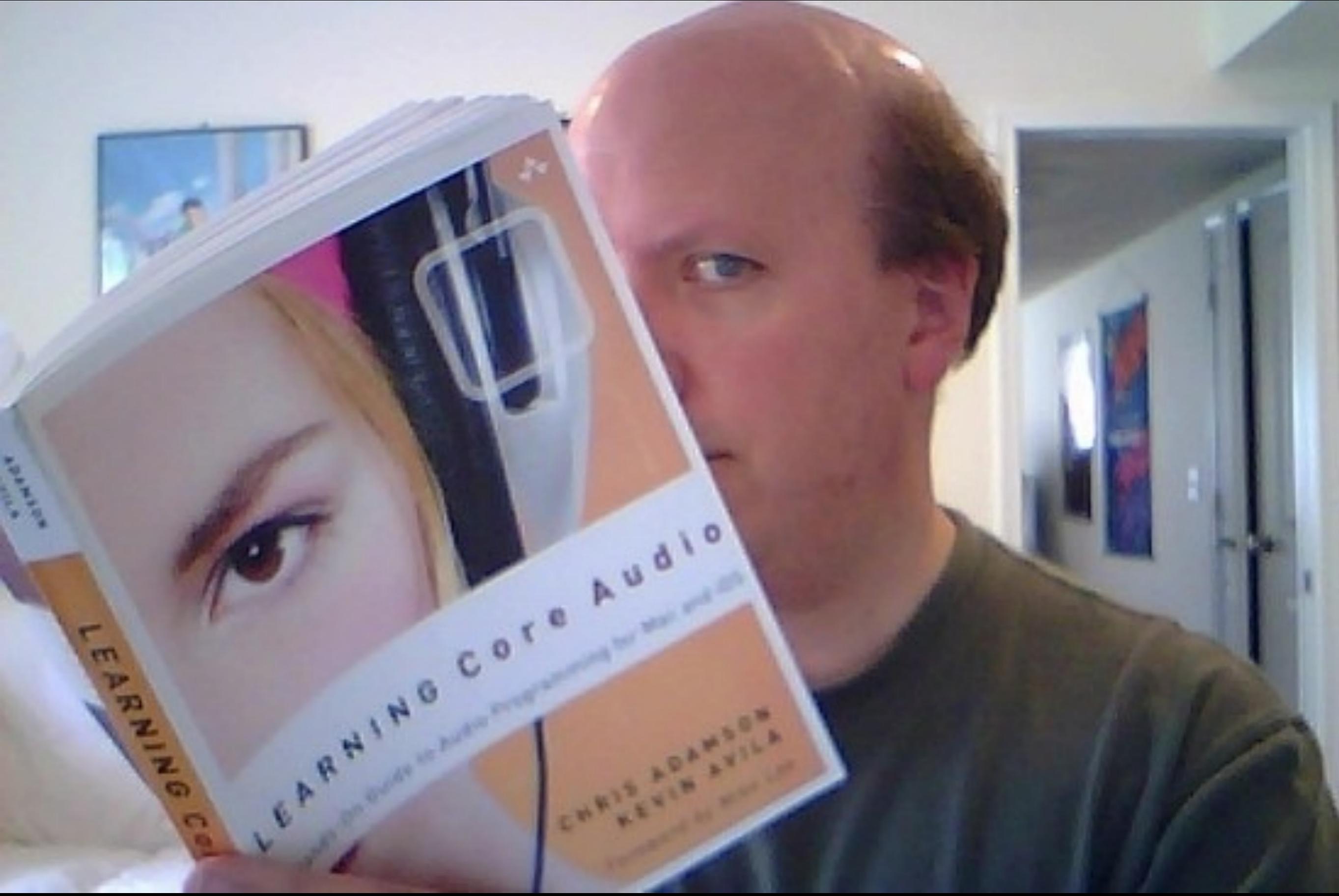
**Hardware Abstraction Layer (HAL)**

**Core MIDI**

**I/O Kit**

**Drivers**

**Hardware**





*The Amazing*

# AUDIO ENGINE

**core audio. cordially.**

Audiobus  
Compatible

The Amazing Audio Engine is a sophisticated framework for iOS audio applications, built so you don't have to.

It is designed to be very easy to work with, and handles all of the intricacies of iOS audio on your behalf.

Built upon the efficient and low-latency Core Audio Remote IO system, and written by one of the pioneers of iOS audio development and developer of Audiobus Michael Tyson, The Amazing Audio Engine lets you get to work on making your app great instead of reinventing the wheel.

[View on GitHub](#)

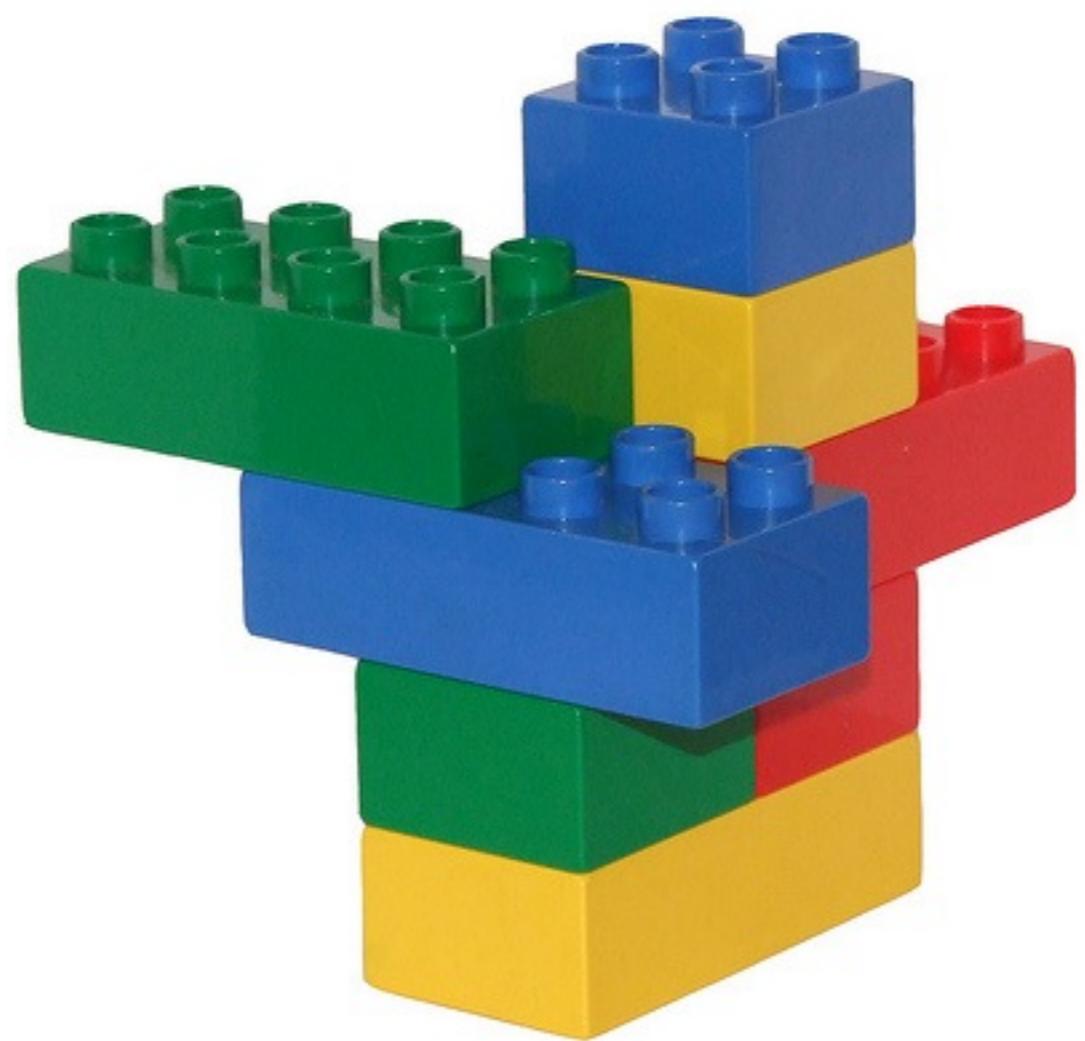
[Download](#)

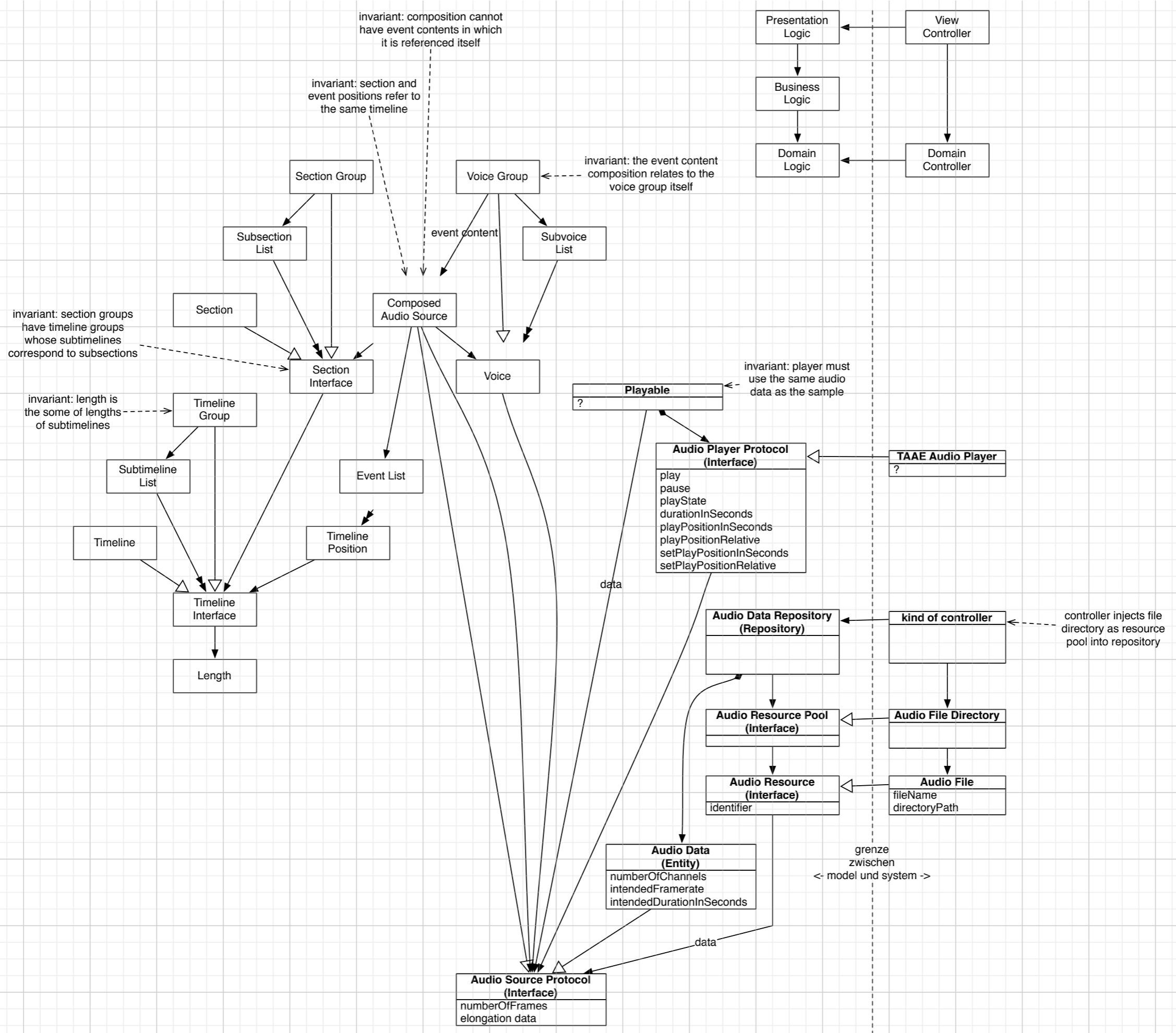


INPUT

FILTER

OUTPUT



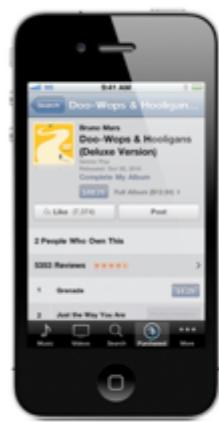


PLAY

PLAY







- Teamwork
- Backend
- Know How
- Marketing

- Bindung meiner Person
- Bindung der Produktidee
- Ich bin schneller 100% verfügbar
- Eigenentwicklung bei geringem Risiko
- Kommerzielles Potential



**DANKE!**  
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