



Audio Bootcamp XVII: Adding Punch To Your Sound

Gina Zdanowicz
Sound Designer, Composer
Serial Lab Studios

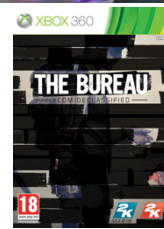
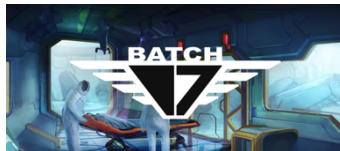
GAME DEVELOPERS CONFERENCE | MARCH 19-23, 2018 | EXPO: MARCH 21-23, 2018 #GDC18





ABOUT ME

- Sound Designer / Composer / Dialogue Producer for Games, VR/AR, Film, TV
- Berklee College of Music Graduate and Founder of Serial Lab Studios
- 12 years in the Game Audio Industry with over 100 game credits
- 2014 Daytime Creative Arts Emmy Award Nominee
- Game Audio Instructor / Lecturer



GDC

GAME DEVELOPERS CONFERENCE® | MARCH 19-23, 2018 | EXPO: MARCH 21-23, 2018 #GDC18



UBM

GDC

GAME DEVELOPERS CONFERENCE® | MARCH 19-23, 2018 | EXPO: MARCH 21-23, 2018 #GDC18



UBM

GDC

GAME DEVELOPERS CONFERENCE

| MARCH 19-23, 2018 | EXPO: MARCH 21-23, 2018 #GDC18



TAKE AWAY

WHAT
YOU
NEED
TO
KNOW?



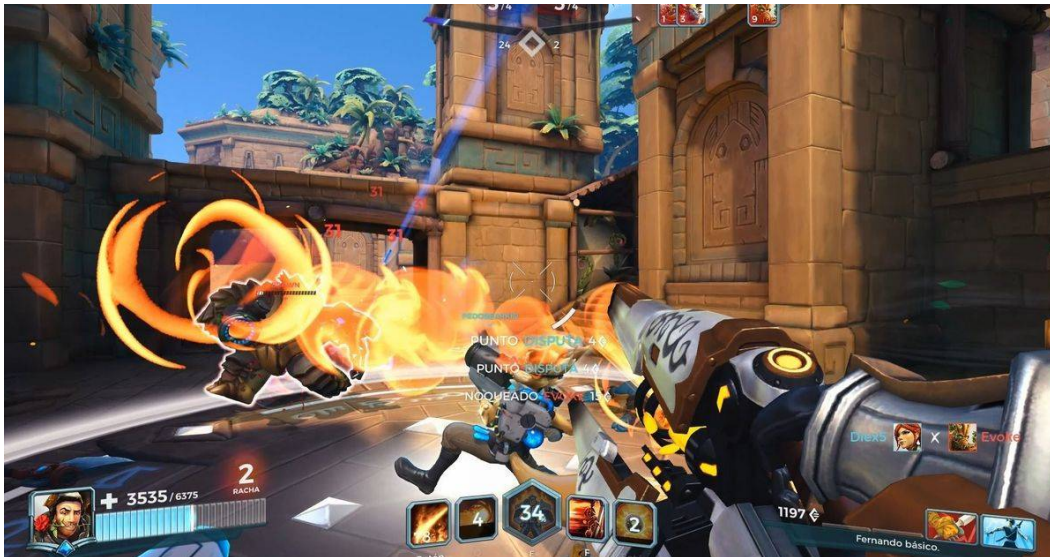
UBM

Non-Linear / Interactive





CHALLENGES



Challenges in Game Audio (continued)

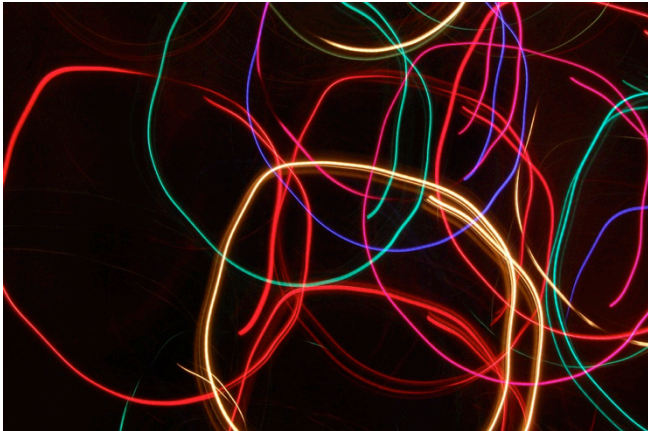
Cutting through the mix





SOLUTIONS

Adding Punch to sound design and music



Creating movement or modulation
in sound design





DEFINING PUNCH



Punch by definition

The power to impress or startle

Something that strikes you





TRANSLATING TO SOUND

How do you translate that so it relates to sound?

A signal with a predominant attack

A sound that "hits" you





WHY PUNCH?

Why is it important in Game Audio?

Powerful Explosions, Weapon Fire & Impacts

More dynamics in your interactive mix

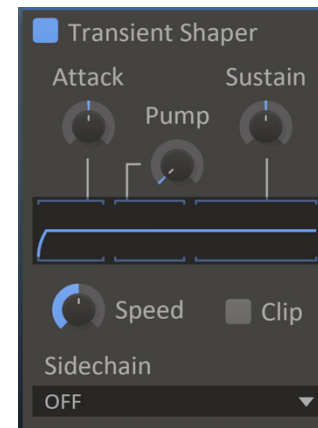
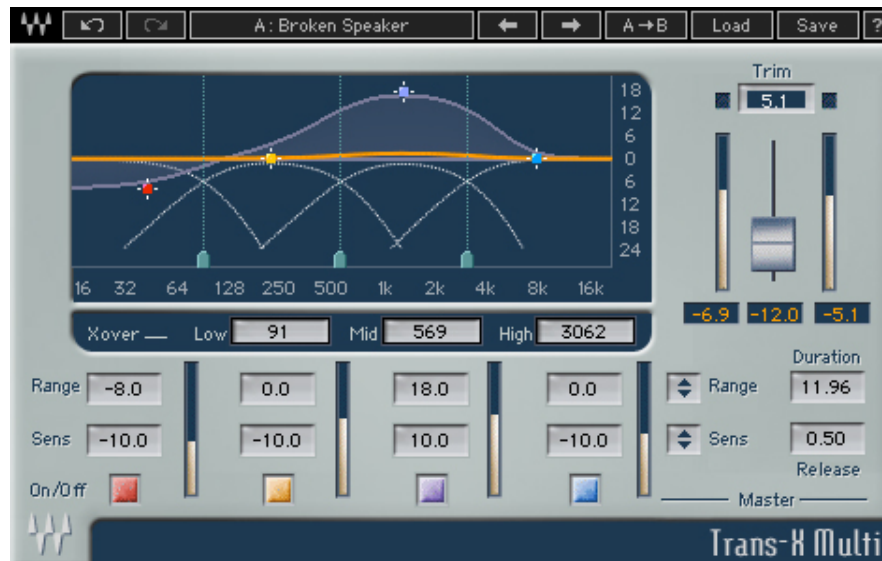




TOOLS

What tools can help me add punch?

Transient Shapers





TRANSIENT SHAPER



Sci-Fi Gun Fire Without TransX



Sci-Fi Pistol Gun Fire With TransX





TRANSIENT SHAPER



Rifle Fire Without TransX



Rifle Fire With TransX





TRANSIENT SHAPER

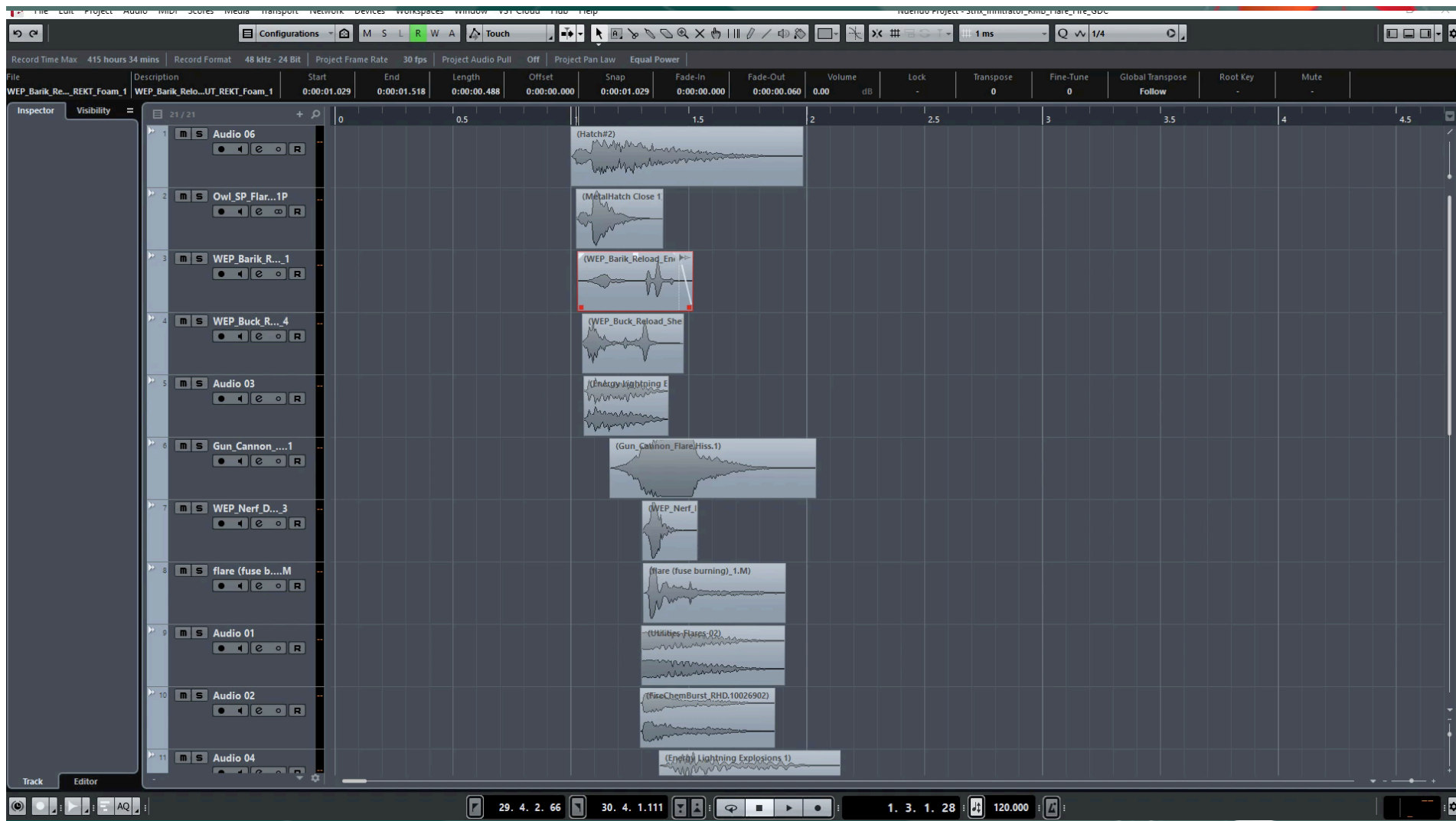


Flare Gun Fire With TransX



Flare Gun Fire Without TransX







MUSIC

How can punch change music?

SnowKing Music

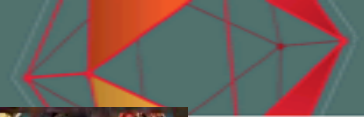


Octave duplication

Choice of instruments

Transient designer on a percussion bus



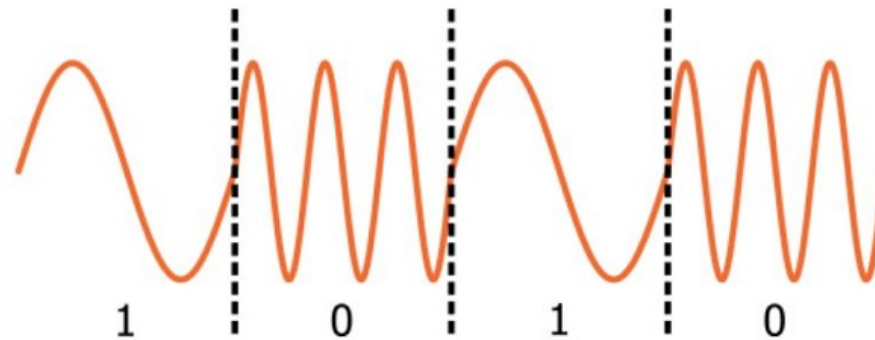




MOVEMENT

Modulation by definition

variation in the strength, tone, or pitch





WHY MOVEMENT?



Why is it important in Game Audio?

Creating movement in sound design or music can help a sound stand out in a mix

Provides hard to pick up flat tones an ability to be recognized spatially

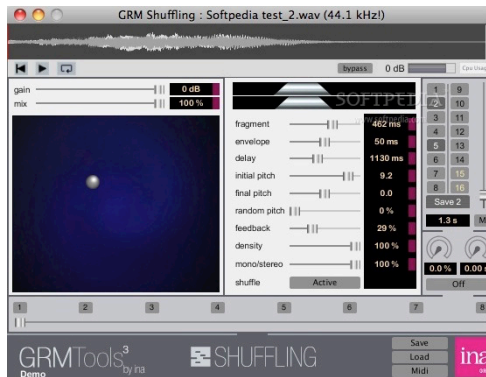




TOOLS

What tools can help me add movement?

Tremolo
Frequency Shifter
Shuffling



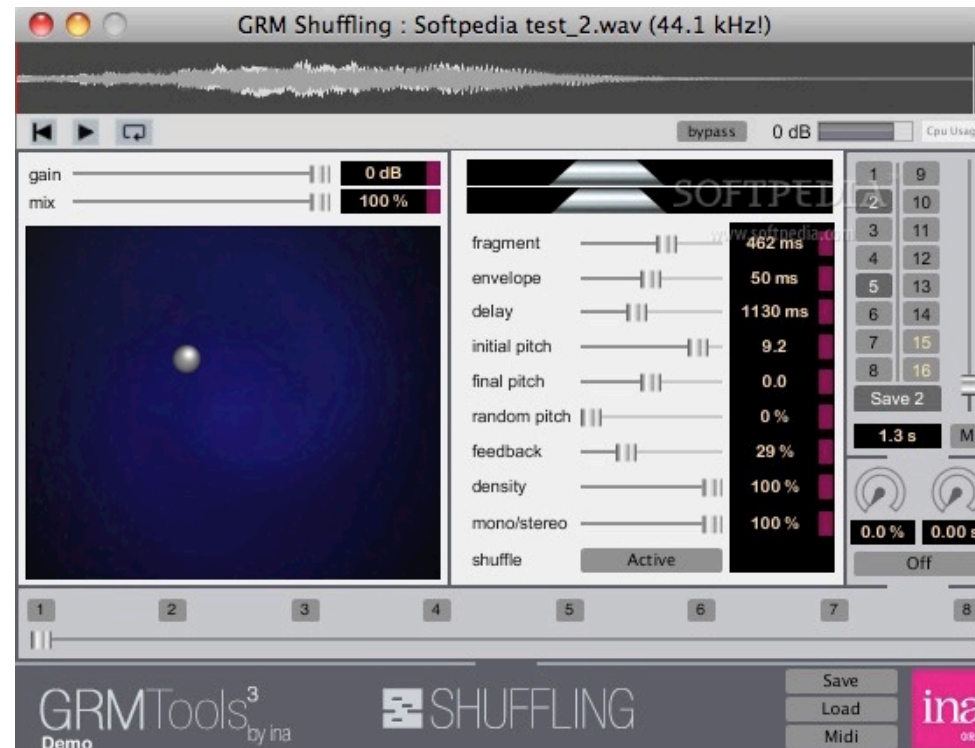


TREMOLO





SHUFFLING





FREQ SHIFTING





MOVEMENT

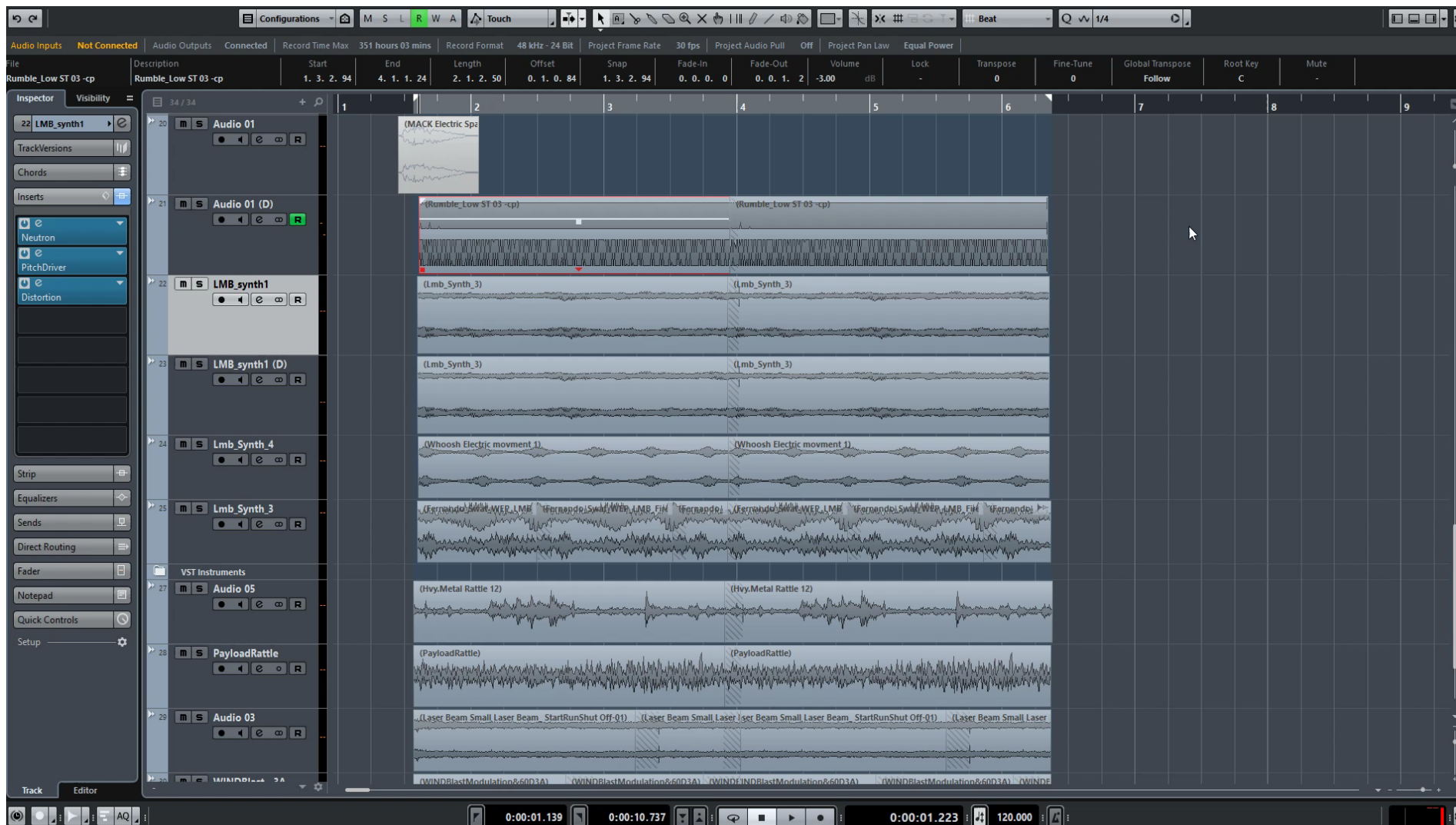


Example of a weapon loop without added movement



Example of a weapon loop with added movement





THANK YOU MARIO!

BUT OUR PRINCESS IS IN
ANOTHER CASTLE!



GDC

GAME DEVELOPERS CONFERENCE® | MARCH 19-23, 2018 | EXPO: MARCH 21-23, 2018 #GDC18



seriallab.com



@seriallab



sounddesign@seriallab.com



facebook.com/seriallabstudios



UBM