

APPENDIX

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"ARTISTIC ANALYSIS"

WRITE MUSIC TO IMAGES
WITHOUT IMAGES. CREATE AN ALPHABET
MY PUN FIRST WAS TO A RESEARCH
ABOUT COMMUNICATION IN ART.

→ MOVIE → movie DIRECTOR

AFTER READING
A LITTLE ABOUT
MUSIC IN
ENVIRONMENT
WE WOULD
BE ABLE
TO DETERMINE
ALL THE
COMPONENTS

ANALYSIS OF A SEQUENCE
WITH 4 PLANE, PERHAPS
WITH TRACK MOTION

EXAMPLES OF TRACK PLAYED
ONLY BASED ON TRACK
NOTION SCHEMES.

WHAT WOULD THE TRACK MOTION DO?

AFTER STUDY THE CONNECTION
BETWEEN MUSIC AND MOVEMENTS
WE COULD ANALYZE SCENES MOVEMENT
AND ADD THEM TO OUR ALPHABET

TRACK MOTION IS THE ANALYSIS OF THE POSITION
THE CAMERA DOES COMPARED TO A SUBJECT.

ONE OTHER THING THAT COULD BE ANALYZED
IS THE LIGHT.

THE THEORY OF RANDOMNESS

MOVIE SCENE

WHAT CAN BE
TECHNICALLY ANALYZED?

(THAT
CAN
BE
TURNED
INTO
ART)

IMAGE DATA

↓
LIGHT
COLOR
DARKNESS
SOFTNESS
SHARPNESS
ETC.

MOTION

↓
TRACK MOTION

TRANSITION

↓
CHANGE
OF SCENE
INTRO
OUTRO
BREAK

AUDIO
WAVE

↓
SPEAKER
ENVIRONMENT
DIALOG
SILENCE

HOW DO WE
ANALYZE???

VECTROSCOPE
VARIOUS DATA

TRACK
NOTION IT

PARAGRAPHS
CHAKS

AUDIO
WAVE
MANIPULATED

- A DEEP ANALYSIS AND RESEARCH WILL EVENTUALLY
MODIFY, CHANGE, DELETE THE COMPONENTS.

SD NO
30 THE
AND HE
26 X
THE B
IMAGE M

TRACK
NOTION

AUDIO WAVE
MANIPULATED
(SILENCE
CAN BE
CALLED)

- THE
THAT
ARTIST

WHAT
AND SILENCE
EX

SO NOW LET'S TAKE A SHORT COMMERCIAL OF 30 SECONDS.

THE VIDEO EDITOR HAS EDITED THE VIDEO AND INSTEAD OF GIVING US REFERENCES, HE GIVES US THIS — ?



Figure 1

WHAT DO WE DO WITH IT?

- THE NEXT STEP IS TO FIND AN ALFABET THAT WOULD INTERPRETATE THESE SIGNALS ARTISTICALLY. IT'S HOW A TV WORKS, BUT BACKWARD.



SO THE NEXT QUESTION IS.

WHAT IS MUSICALLY FOR US IMAGE, NOTION, CHANGE AND SILENCE, AND WHAT OTHER ASPECTS COULD BE EXTRAPOLATED FROM AN IMAGE TO BE ABLE?

WE COULD DO A FAST EXAMPLE:

IMAGINE DATA: LIGHT → LIGHT COULD MEAN (M M) HAPPINESS
DARK → (M M) COULD MEAN SUSPENSE.
SOFT → (M M) COULD MEAN HOME
BRIGHT → (M M) COULD MEAN MORNING.

THE MOST INTERESTING FACT IS
THAT DURING THIS PROCESS
THERE'S GONNA BE ALSO A DIFFERENT
INTERPRETATION OF EACH VALUE OF AN IMAGE
FOR EACH INDIVIDUAL TESTED.

FOR THIS EXPERIMENT THOUGHT WE WOULD NEED
TO CREATE OUR OWN ALPHABET AS IF IT WOULD
BE THE "STANDARD".

LET'S KEEP GOING:

TRACK MOTION: MOTION

TRIDIMENSIONAL TO ANALYZE	
VERTICAL	- WHAT REVEALS A VERTICAL SHOT
HORIZONTAL	- WHAT REVEALS AN HORIZONTAL SHOT
PANNING	- WHAT EFFECT DOES PAN DRIVE
RANDOMNESS	- WHAT EFFECT
STEADINESS	- STUCK IN TIME
CURVE	- COMING FROM SOMEWHERE
PAST	- RUNNING
SLOW	- SLOW MOTION
STRESS	- PAST MOVEMENTS
ALKING	- EPIC MOMENTS

WHAT TO ADD:

Figure 2

AT THIS MOMENT ~~AN~~ A DEEPER ANALYSIS URGES TO BE DONE. WE NEED TO UNDERSTAND WHAT MOVEMENT AND NON-MOVEMENT MEANS FOR REAL IN AN IMAGE, AND HOW DO WE FAKE IT AND HOW CAN THE MUSIC CAN AFFECT IT. SO LET'S RECAPITULATE AND RE-ANALYZE.

1. VERTICAL MOVEMENT

UP TO DOWN ↓
 ↓
 DOWN TO UP

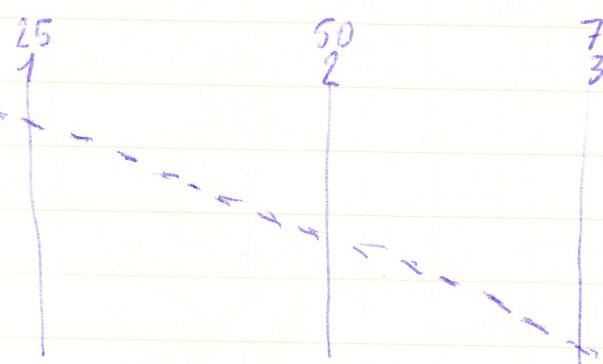
MEANING : REAVLING WHERE
 (EXAMPLES) WE ARE ?

LOOKING UP
 TO THE SKY
 AND THE MOVIE
 IS FINISHED

TRANSLATE IT,
 MUSICALLY : A SCALE THAT HAPPILY
 WOULD SHOW US
 AN EARLY MORNING
 IN A SMALL TOWN.

MUSIC SOLO OUTRO
 MUSIC CHANGES
 INTO AN EPIC FINAL

VERTICAL MOVEMENT ON OUR GRAPHIC
 WOULD BE PRESENTED LIKE THIS IN A
 SCENE OF 3 SECONDS (25FPS)



IN THE TRACK
 MOTION ACTUAL
 TRACKING IT
 WILL PROBABLY
 LOOK LIKE THIS



Figure 6

2. HORIZONTAL MOVEMENT

SCENE EXAMPLES | LEFT TO RIGHT
RIGHT TO LEFT

MUSIC TRANSLATION | HERE WE COULD
PLAY ALONG WHAT WE STARTED.
IT'S USUALLY A
MIDDLE MOMENT SCENE, THEREFORE
MIDDLE MOMENT MUSIC, A VERSE
FOR EXAMPLE.

GIROTONDO CIRCLE

DANCING AROUND THE CATHERA.

(A COUPLE
LOOK INTO
THEIR EYES
AND DANCE)

A SCENE WITH THIS
TYPE OF MOVEMENT
COULD BE TRANSLATED
INTO SOMETHING RATHER
JOYFUL, MOVING AROUND
BY BEING AT THE SAME
PLACE. AN ARPEGGIO,
FOR EXAMPLE.

HORIZONTAL MOVEMENT ON OUR GRAPHC WOULD
LOOK LIKE THIS

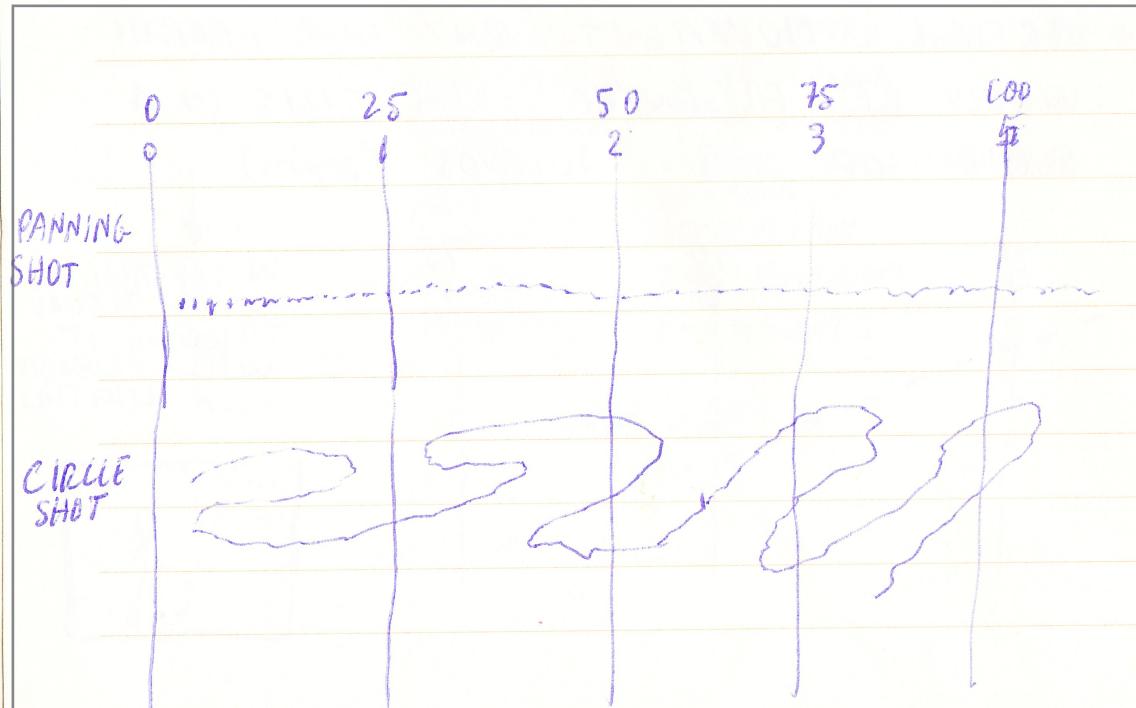


Figure 4

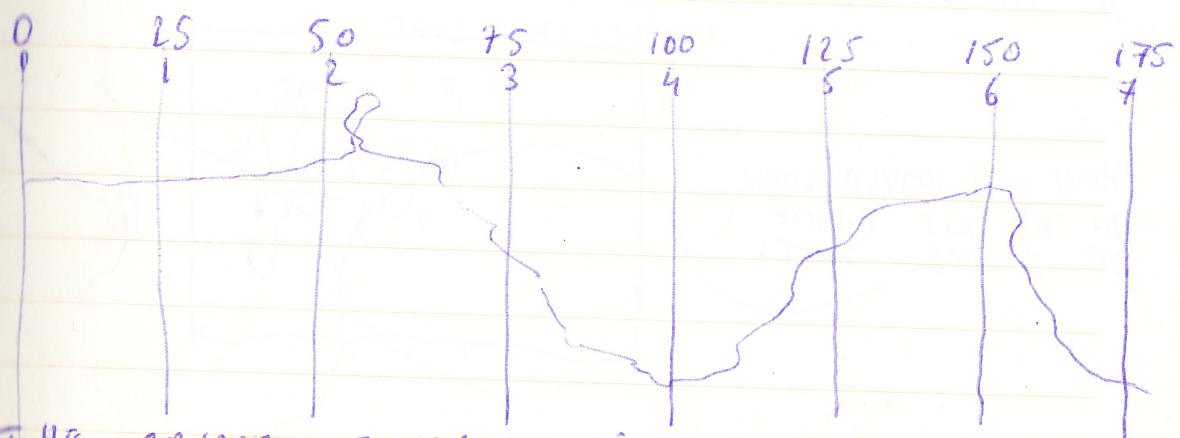
- RANDOM MOTION
- LET'S SAY THE VIDEO EDITOR TOLD US THAT THE VIDEO IS ABOUT A GUY WALKING IN A FOREST. OR EVEN IF WE DONT KNOW THAT. AND WE GET THIS:

Figure 5



IN A 3 SECONDS SCENE WE WOULD KNOW DIRECTLY THAT EITHER THE CAMERAMAN HAS ~~LOST~~^{BROKEN} HIS CAMERA ON THE FLOOR, OR MOST PROBABLY THERE IS SOME KIND OF STRESS IN THE IMAGE MUSICALLY WE WOULD TRANSLATE INTO AN INTERLUDE FOR EXAMPLE, A FAST CHANGE OF CHORDS, A RIFF, A MOMENT OF FAST MOVEMENT.

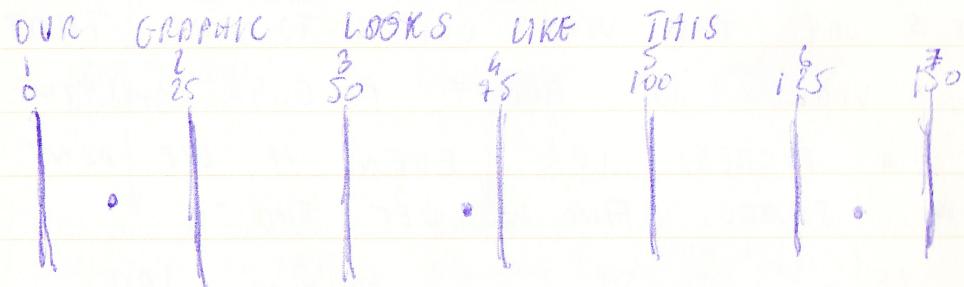
NOW LET'S SAY OUR GRAPHIC LOOKED LIKE THIS



THE RANDOM PERIOD OF TIME WOULD INDICATE US THAT THERE IS DEFINITELY DYNAMIC IN THE SHOT BUT NOT AS STRESSY AS BEFORE

Figure 6

STEDINESS

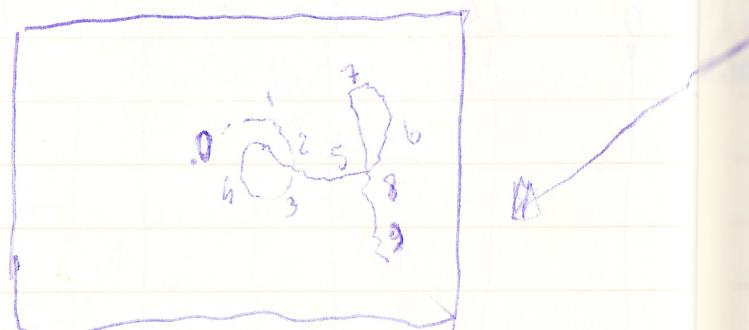


- THESE & BELOW A SINGLE DOT WOULD INDICATE A STEADY SCENE. A BEAUTIFUL VIEW, AN EMPTY STREET. A BEGINNING OR SOMETHING ELSE.

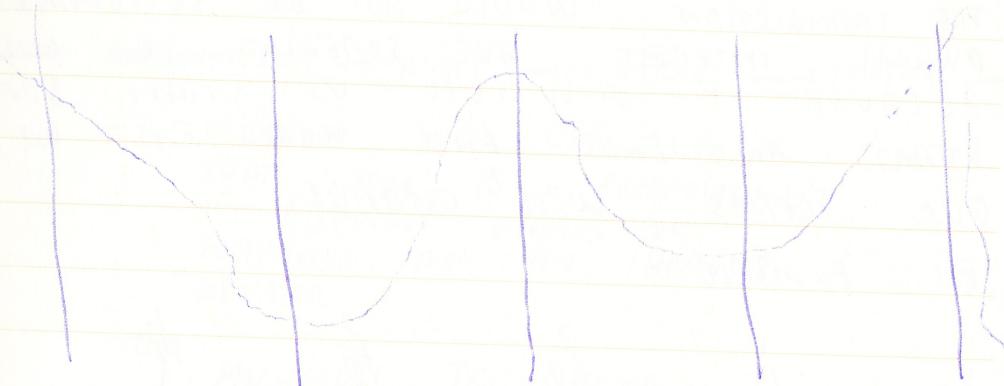
MUSICALLY IT COULD BE TRANSLATED INTO A LOT WE COULD HAVE OUR MAIN THEME COMING IN - WE COULD HAVE A SOFT PAD PLAYING LONG CHORDS IT ALSO DEPENDS WHERE IN THE STRUCTURE THESE MOMENTS WILL BE. IT COULD ALSO BE SILENCE FOR EXAMPLE.

WHAT THERE IS ALSO TO ANALYSE FURTHER IS HOW WE WOULD UNFOLD IN OUR GRAPHIC THE MOVEMENT OF THE TRACK MOTION. SINCE THE TRACK MOTION IS ANALYSED IN TIME REFERRING TO A POINT ZERO IN THE IMAGE, WE HAVE TO FIND A WAY TO UNFOLD THE TRACK ON A TIMELINE.

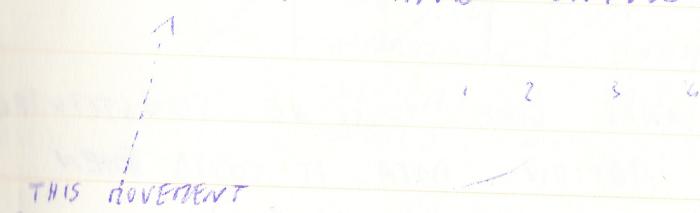
HOW IT WOULD LOOK
ON THE LAST FRAME
OF 3 SECS SHOT.



"UNFOLDING" THE MOTION TRACK WE GET SOMETHING LIKE THIS:



THIS IS BECAUSE WE NEED OUR TRACK TO BE VISIBLE IN TIME BUT DOING LIKE THIS WE USE OUR THREE-DIMENSIONALITY, FOR THIS REASON WE HAVE TO READAPT AND UNFOLD IN OTHER WAYS.



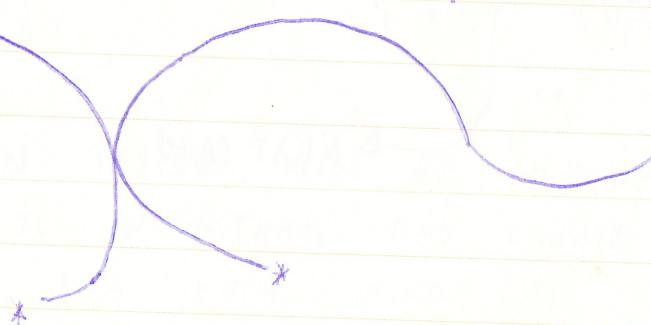
THIS MOVEMENT COULD BE VERTICAL OR FORWARD AND OPPOSITE

1 2 3 4



THAT WE CONNECT

1 2 3 4



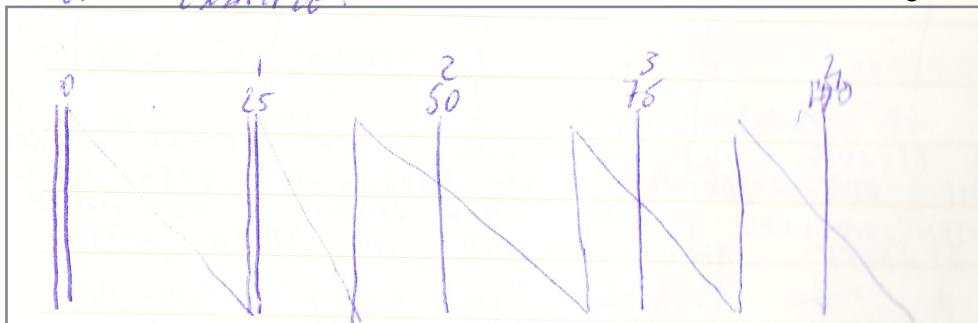
A CUT OF THE MOTION WILL INDICATE AN OVER CROSS OF ITSELF.

- TRANSITION -

- THE TRANSITION WOULD NOT BE SOMETHING OF MUSICAL INTEREST BUT SOMETHING OF OURSCINE BECAUSE IT WILL TELL US WHEN SOMETHING STARTS AND ENDS AND HOW FAST OR SLOW OUR SCENES WILL CHANGE.

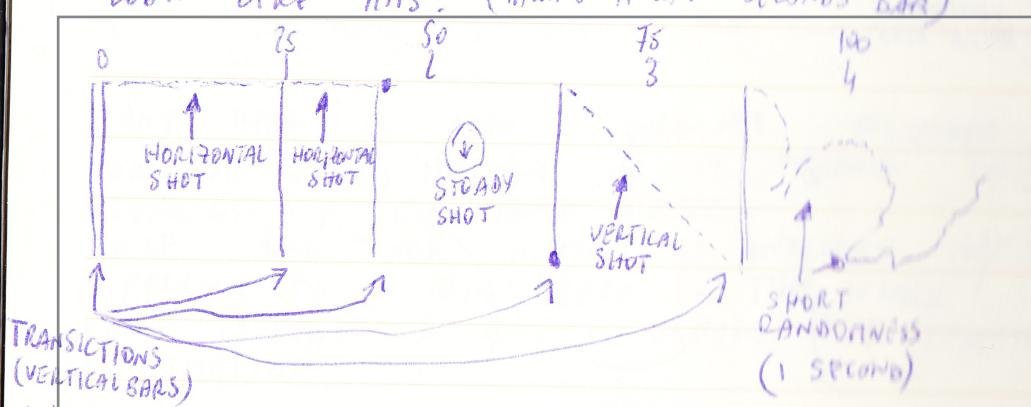
FOR EXAMPLE:

Figure 7



EVENTUALLY THE DIAGONAL LINE WILL BE SUBSTITUTED WITH THE TRACK NOTION DATA. IT COULD THEN LOOK LIKE THIS: (TAKING AWAY SECONDS BAR)

Figure 8



WHAT DO WE HAVE HERE? MOVIE STARTS - HSHOT - HSHOT - STEADY - VERTICAL -
MUSIC TRANSLATION: RANDOM

→ NEXT PAGE

IN A 4 SECONDS SCENE THIS HAPPENED

START → HORIZONTAL SHOT → HSHOT → STEADY → VERTICAL → Pan

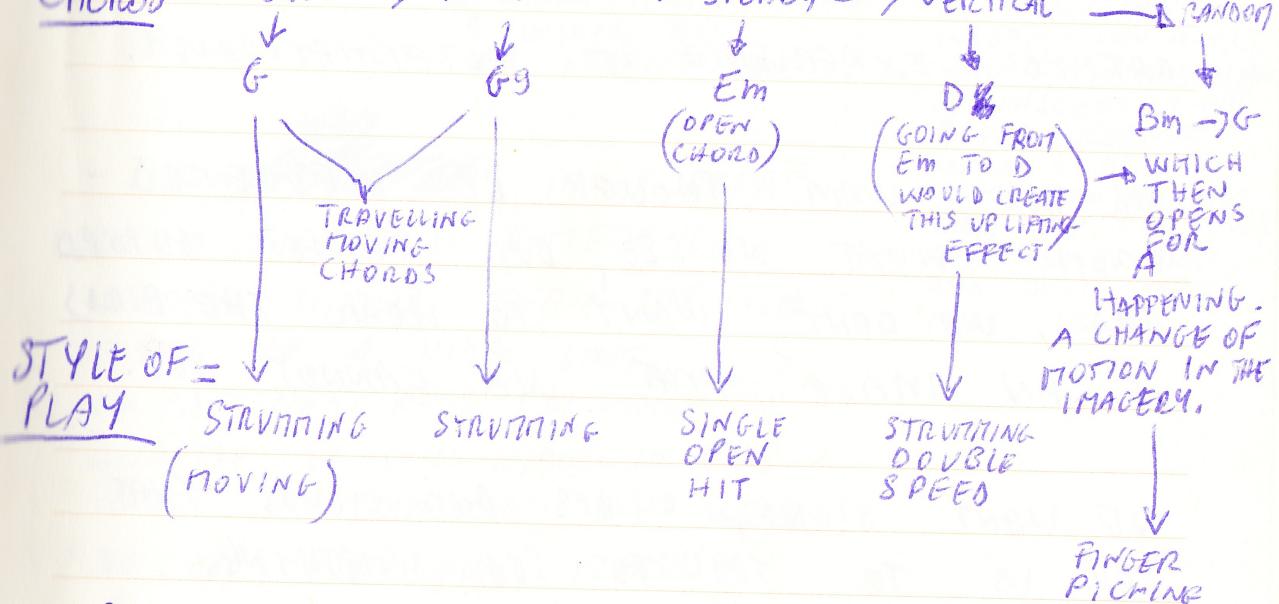
DIRECTLY WE CAN SEE
THAT THERE IS A PRESENTATION
OF DIFFERENT ANGLES OF
SOMETHING AND THEN THERE IS
DYNAMIC.

MUSICALLY TRANSLATED

IF OUR MUSIC WAS
DOING G - Em - Bm
WE CAN EVEN TAKE
HARMONIC CHOICES,
WHICH IN THIS CASE
WOULD BE:

(EXAMPLES)

CHORDS = H SHOT → H SHOT → STEADY → VERTICAL → Pan



ONCE AGAIN TESTS WILL BE NEEDED ~~FOR~~ TO
BE ABLE TO UNDERSTAND AND CREATE MUSICAL
PROPERTIES FOR EACH KIND OF MOVEMENT.
SINCE, AS SAID, THIS COULD ALSO BE SOLELY
PREFER SUBJECTIVE.

ANOTHER PROPERTY THAT COULD BE ANALYSED IN VIDEO, NOT IN STILL IMAGE, IS THE AUDIO DATA. WHY? BECAUSE IF AN IMAGE HAS BEEN CAPTURED BY A VIDEOGRAPHER AND HE THINKS THAT THE BACKGROUND SOUND OF THE WATERFALL IS PART OF THE SHOT, WE, AS MUSIC COMPOSER, NEED TO BE AWARE OF THAT.

IF WE RECEIVE A VIDEO SHOT THAT HAS A SPEAKER VOICE THAT TALKS ABOUT LOVE, THEN WE NEED TO BE AWARE OF THAT.

REMEMBER THAT WE'RE TRYING TO USE A SENSE THROUGH ANOTHER SENSE, AND WE DON'T WANT TO WATCH THE IMAGE. WE WANT TO RATHER EXPERIENCE IT ALTERNATIVELY.

WE DON'T WANT THOUGH BE INFLUENCED FROM WHAT WE SEE, BUT RATHER GUIDED AND WE DON'T WANT TO HEAR THE BIRDS OF AN IMAGE THAT WE CANNOT SEE.

WE WANT SIGNS, GUIDES AND LIGHTS THAT TELL US TO TRY TO SEE SOMETHING. THE WHOLE RESEARCH IS ABOUT THAT MEDIUM OF HUMAN INTERPRETATION OF SENSES

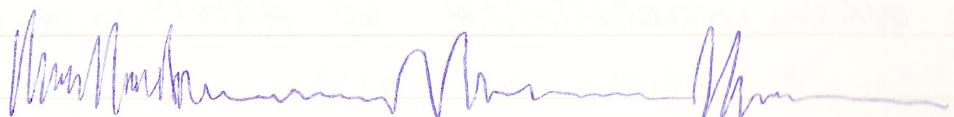
IS ABOUT FINDING THE THIN LINE WHICH DIVIDES WHAT WE SEE, HEAR, TOUCH ETC., FROM WHAT WE INTERPRETATE, PERCEIVE, AND THEN LET OUR INTERPRETATION GO FREELY WITH.



- THE ~~SHAPED~~ IMAGE DATA OF A PICTURE IS SOMETHING RATHER SIMILAR THAN THE IMAGE DATA OF A VIDEO SHOT.
IN THE NEXT PAGES I'M GOING TO ANALYZE IF STILL IMAGE IN THIS CASE ITS SOMETHING WE WANT TO USE FOR OUR ANALYSIS.

↓
GETTING IMAGE DATA INSTEAD OF THE IMAGE ITSELF WOULD GIVE US IMPORTANT INFORMATION ABOUT WHAT THE PHOTOGRAPHER SUBCONSCIOUSLY HAS EXPERIENCED. WE WOULD BE ABLE TO INTERPRETATE AN IMAGE IN A MUCH MORE SUBCONSCIOUS WAY AND WRITE MORE FREELY.

GONG BACK TO THE AUDIO WAVE OF ~~THE~~ VIDEO, THE DATA IN A GRAPHIC WOULD BE SHOWN AS A SIMPLE WAVE FORM.



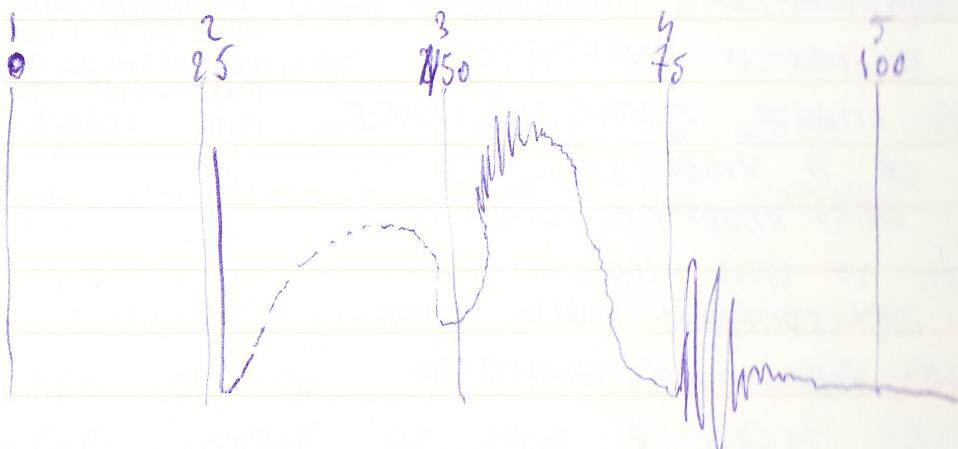
ONCE THE WAVEFORM GETS INTEGRATED IN DDR GRAPHIC SYSTEM, WE COULD GET SOMETHING LIKE THIS:

- NOW, REMEMBER WE HAVE TRANSITION:

- ON TRANSITION WE HAVE MOTION :

- HERE WE ADD AUDIO DATA :

= FOR THIS RESULT : (EXAMPLE)



WE HAVE COMBINED EVENTUAL AUDIO DATA INTO MOTION AND TRANSITION. WE ARE STILL IN THE PROCESS OF WRITING OUR ALFABET.

ONCE THINGS WILL BE MORE CLEAR WE WILL BE ABLE TO DETERMINE ALL THE GRAPHICAL COMPONENTS.

LETS GO BACK INTO ACTUAL IMAGE DATA.

HISTOGRAMS, VECTORSCOPE, ETC.

WE HAVE THE POSSIBILITY, AND THIS WILL BE TAKEN INTO FURTHER RESEARCH, TO MABIE ADD A PROPERTY TO OUR SET OF IMAGE DATA PROPERTIES.

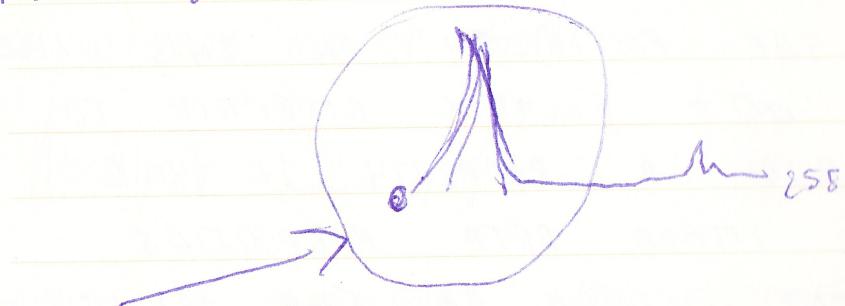
THIS ELEMENT COULD BE THE "LUT" OF AN IMAGE. (LOOK UP TABLE)

BASICALLY A "LUT" IS THE MODIFIER BETWEEN TWO IMAGES, THE ORIGINAL IMAGE AND THE DISPLAYED IMAGE, BASED ON A MATH FORMULA.

THEY INCLUDE CONTRAST, SATURATION, CURVES AND ALL THE TYPE OF IMAGE DATA THAT CAN BE MODIFIED. PROBABLY A "LUT" COULD BE AT THE CENTER OF THIS RESEARCH BECAUSE THEY REPRESENT AND CONTAINS EXACTLY THE SIMPLIFICATION OF DATA WE'RE LOOKING FOR.

SO FOR EXAMPLE, WE COULD GET THE "LUT" DATA IN AOE OF A VIDEO AND HAVE ALREADY A BIG GUIDE TO HOW CONTRASTY THE IMAGE WOULD BE, FOR EXAMPLE OR HOW COLD OR WARM IS THE IMAGE, AND FROM THERE, INTERPRETATE MUSICALLY.

IN DEEPER ANALYSIS, THE HISTOGRAM OF A DARK PICTURE LOOKS LIKE THIS:



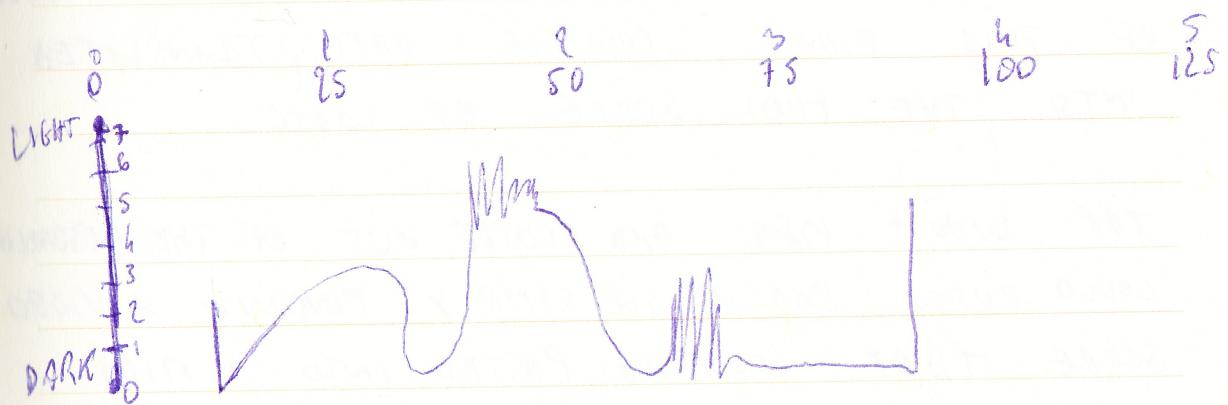
COMPARING THE LOW END ~~END~~ OF AUDIO FREQUENCY TO THE DARKNESS OF THE LOWER PART OF THIS DATA, TELLS US ALREADY THAT WE HAVE A DARK IMAGE, MAYBE NIGHT, MAYBE SHADOWED.

SINCE HISTOGRAM CHANGES IN TIME, IN A VIDEO, WE WILL HAVE TO ANALYZE THE PEAKS AND LOWS OF A WHOLE VIDEO AND CREATE STATISTICS.

ANOTHER WAY THAT THIS COULD BE DONE, SO THAT THIS PARAMETER WILL BE ACTUALLY VISIBLE ON OUR FUTURISTIC PENTAGRAM, IS TO ADD THE HISTOGRAM IN THE VERTICAL SECTION OF OUR PENTAGRAM.

THE ONLY THING WE WOULD HAVE LEFT TO INCLUDE IN OUR PENTAGRAM, IS THE PARAMETER OF COLOR. WE WILL TAKE THAT IN THE NEXT CHAPTER.

SO LET'S TRY TO ADD HISTOGRAM.



(WE TAKE THE EXAMPLE SHOT FROM 2 PAGES AGO.)

①

= NOTE THE FIRST TRANSITION IS IN THE LOWER SPECTRUM OF LIGHT AND THE NEXT TRANSITION IS A LITTLE HIGHER. THIS WON'T REALLY TELL US MUCH IN A 2 SEC SCENE ANALYSIS, BUT ON A BIGGER LOOK AT THE FINAL COMPOSITION WILL AT LEAST TELL US THE GENERAL "LIGHT" IMAGE DATA OF THE WHOLE SHOT.

↓
EXAMPLE

0 80SECS
↓
Ingested & ZONED OUT 200%



THE TRANSITIONS SHOW US THAT THIS SHOT IS PRETTY DARK FOR THE WHOLE 80 SECS. WE WILL TRANSFORM LIGHT DATA INTO MUSIC.

THE MOST INTERESTING TWIST I HAVE ENCOUNTERED SINCE I STARTED THIS RESEARCH IS THE THOUGHT OF THIS FINAL POSSIBLE DATA, TRANSLATED INTO THE MIDI SCORE OF LOGIC.

THE WHOLE IDEA AND CAME OUT OF THE RESEARCH COULD EVEN END UP IN SIMPLY FINDING A VIDEO SCORE THAT COULD BE PASTED INTO A MIDI SCORE.

EVEN FURTHER, THE ANALYS OF IMAGE DATA COULD ALSO BE RESEARCHED AND TRANSLATED INTO ACTUAL ~~DATA~~ AUDIO EFFECTS, MORE THAN THE MUSIC ITSELF, OR PERHAPS, FORGET THE COMPOSITION AND FOCUS ON: INTERPRETATION OF IMAGE DATA, TRANSLATED INTO MIXING CHOICES AND TECHNIQUES.

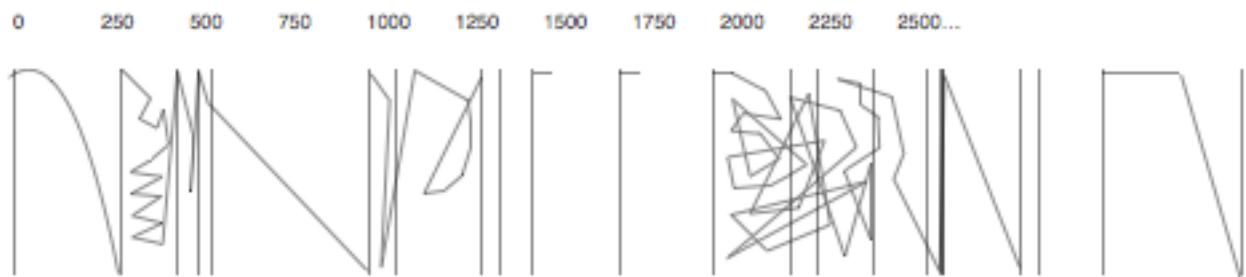


Figure 9

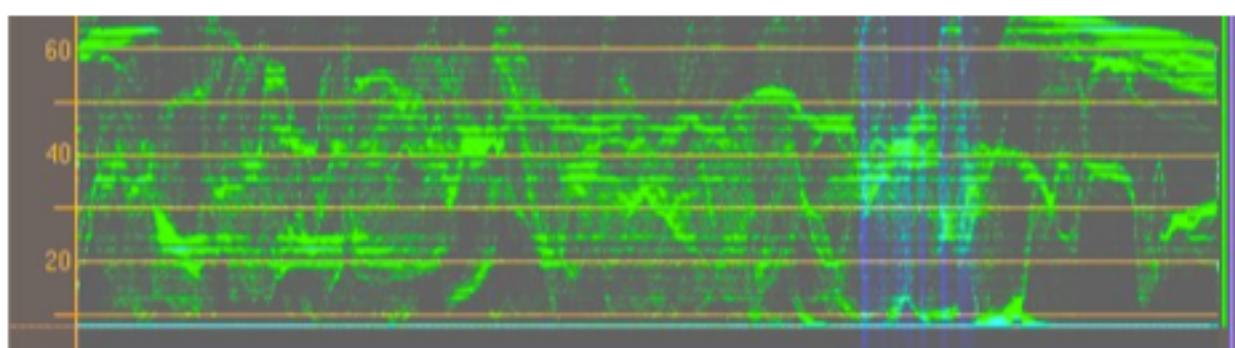


Figure 10 & 11

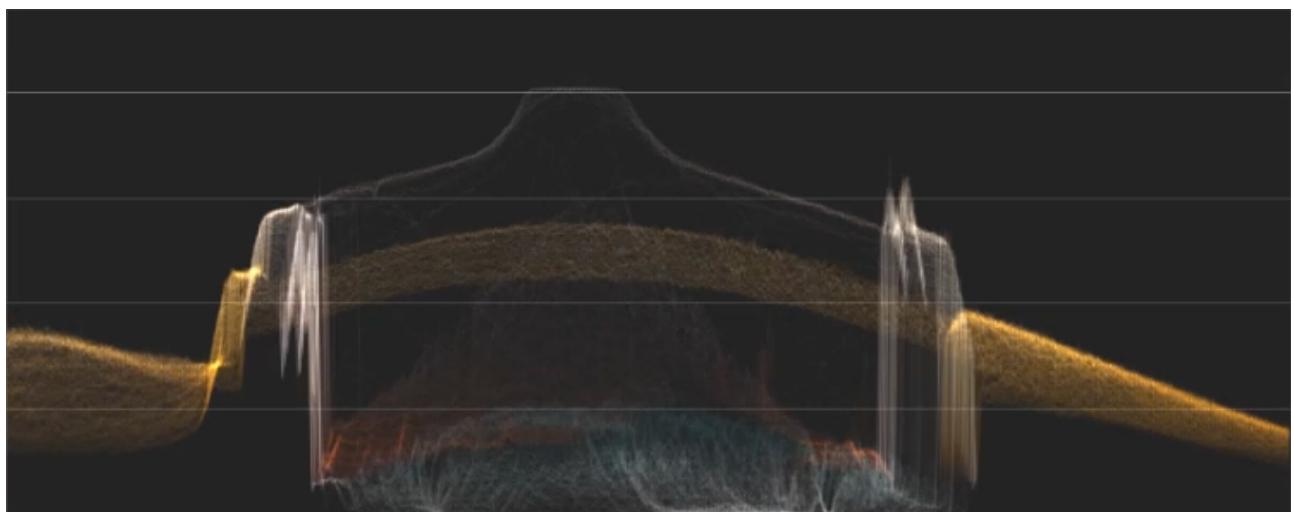
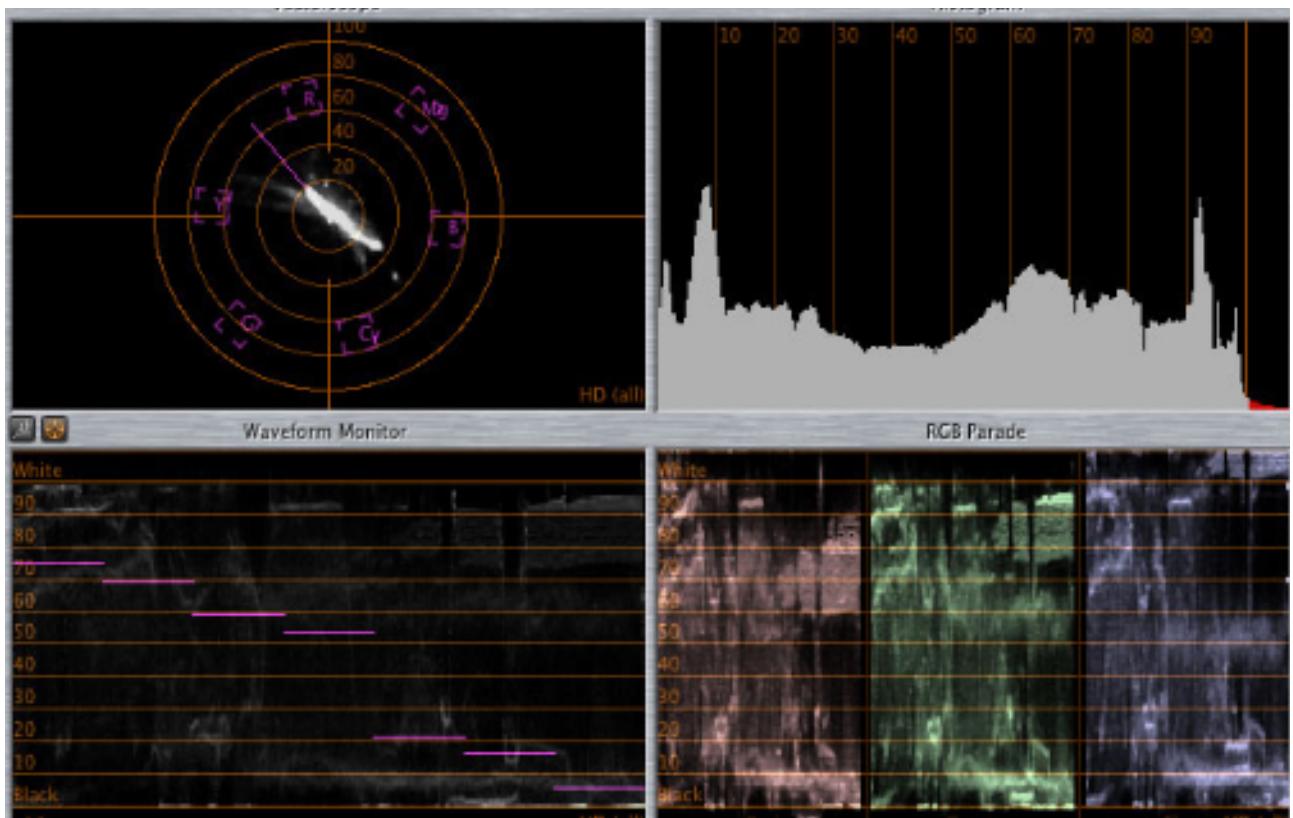


Figure 12. Screenshot from attached video “Luma Scope”.



Images 13 & 14. Random pictures from Google Images

