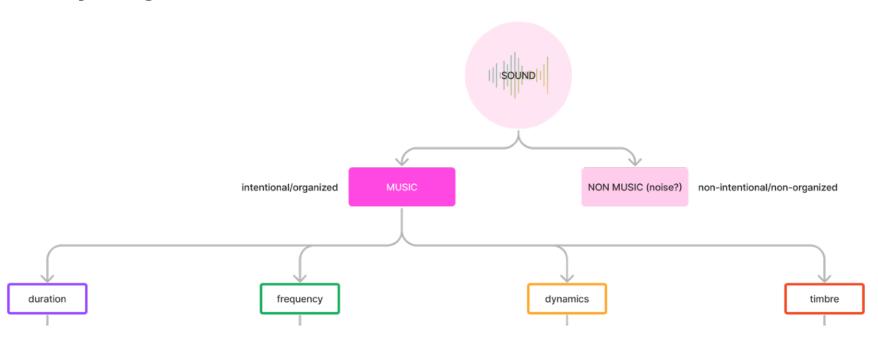
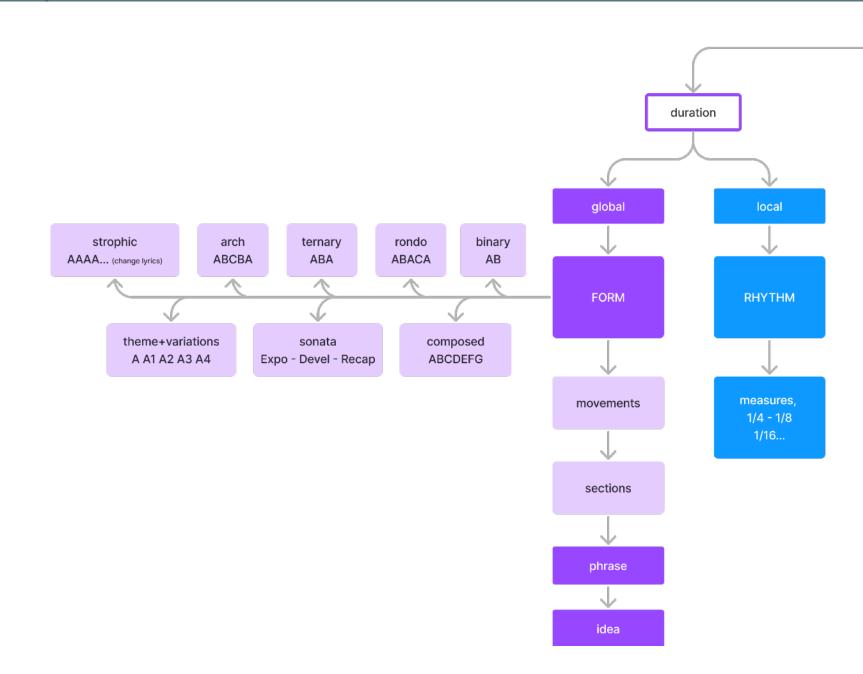


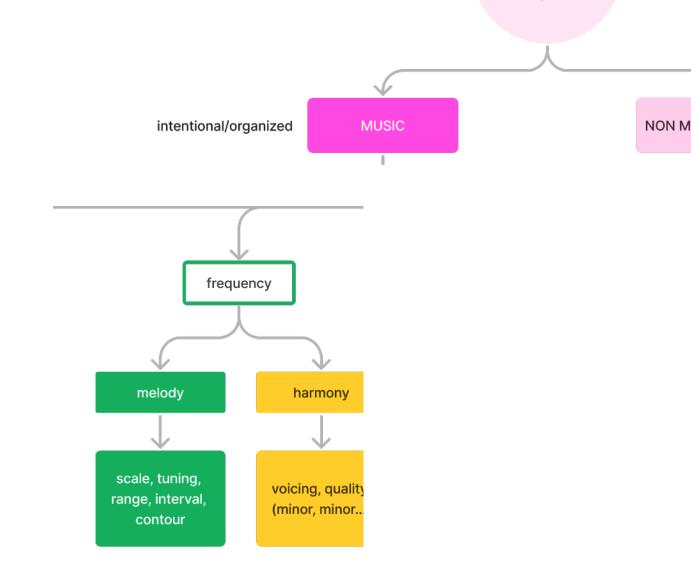


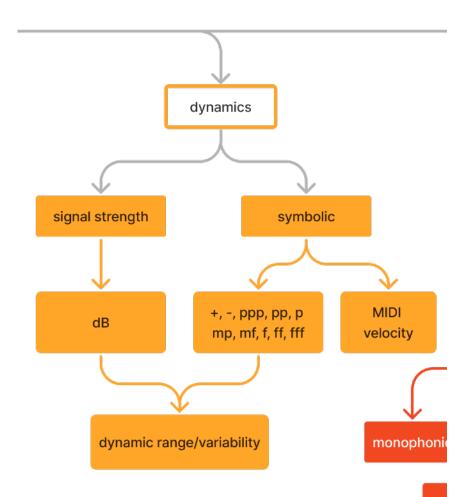


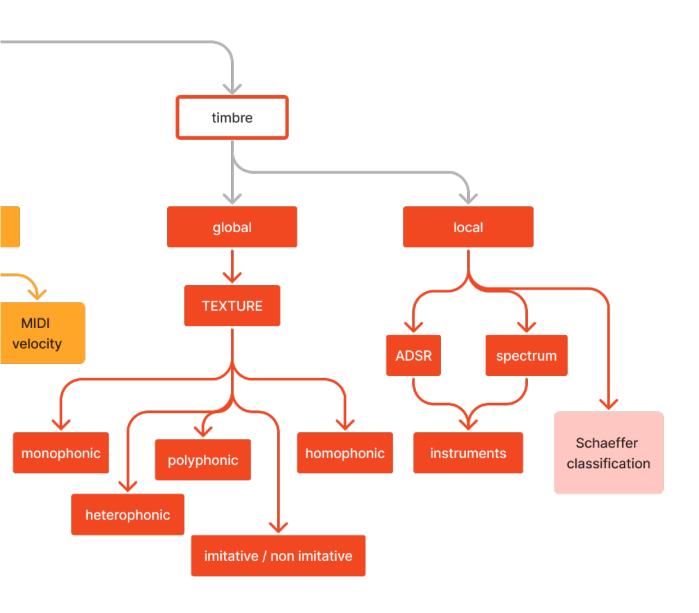
What is music? Many things.





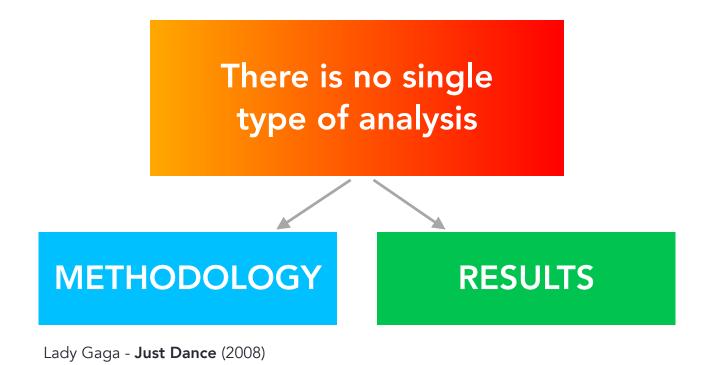






Analysis

Musical analysis is the discipline that investigates individual musical works in terms of their form, their internal structure, the compositional techniques employed, or the relationship between these aspects and narrative and dramatic aspects.



Xenakis - Diamorphoses (1957)

The analysis method is influenced by:

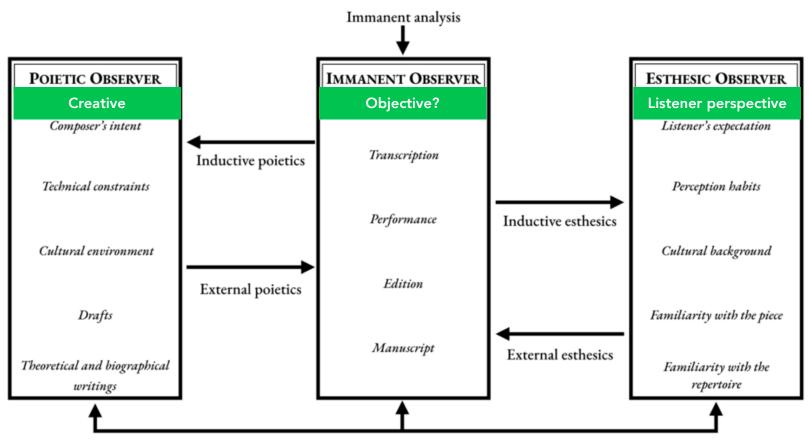
- The historic period of the opera
- The style of the opera
- The analyst

Analysis is always both an interpretation and a systematic approach.



Nattiez focuses on 3 layers of investigation in music analysis:

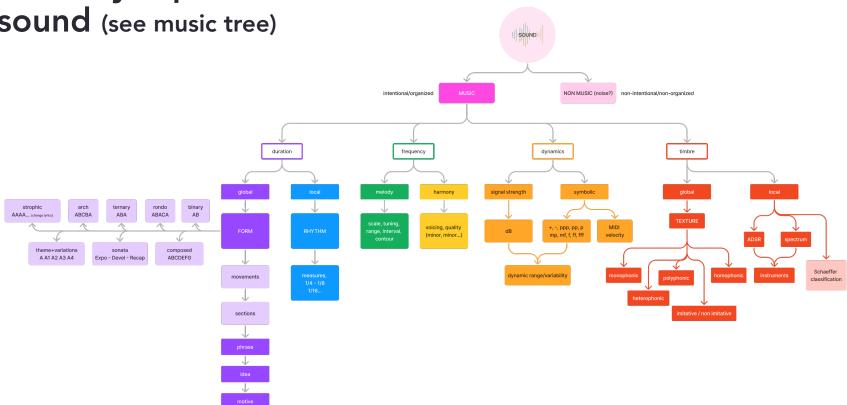
- **poietic**: all determinants of its production: cultural environment, technical constraints, author's intent...
- aesthetic: all determinants of its reception by listeners, its interpretation by musicologists, critics, and (even) performers.
- neutral/immanent: the methodological artifact called a neutral level that makes it possible for the aesthetic interpreter, to hypothesize a repertory of syntactic relationships from which, in a second step, elements of poietic and/or aesthetic relevance.



Interaction between the three levels



Analysis can be focused on many aspects of sound (see music tree)



global

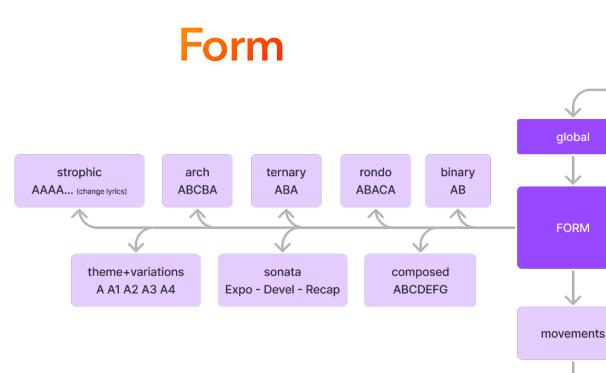
FORM

sections

phrase

idea

duration



- 1. Take a piece
- 2. Segment it into sections A, B ...

In different genres, each section can has a name In songs for example:

INTRO, VERSE, PRE-CHORUS, CHORUS, BRIDGE, OUTRO



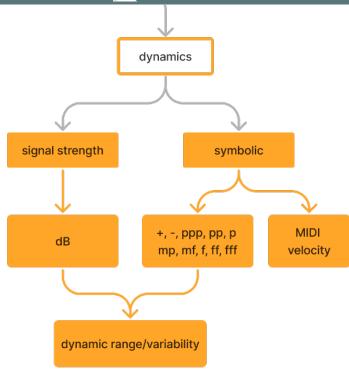
Apparat - Song of Los (2011) Arca - Alive (2015)

Dynamics

Dynamics is the articulation of signal strength in a piece of music.

Range: the range of the dynamics

Contour: the trend of dynamics







Rhythm

Rhythm is the pattern of sound, silence, and emphasis in a song

Vestern music

General concepts

Time signature: indicates the number of beats per measure

Meter: duple meter (where beats appear in groups of two), triple meter (¢ of three), and quadruple meter (of four)

Tempo: speed at which a piece of music is played

Strong beats and weak beats

Syncopation: do not align with the downbeats of individual measures

Accents: special emphasis on certain beats

Polyrhythms: layers one type of rhythm on top of another

LINK



duration

local

RHYTHM

measures, 1/4 - 1/8

1/16...

Rhythm can be:

Algorithmic

METRONOMIC

Stochastic

NON-**METRONOMIC**

Director (human or not)

Performer Interpreted

Machine

Kraftwerk - The robots (1978)

Boulez - Répons (1980)

Mark Fell - Multistability 1-A (2010)

Autechre - Fold4, Wrap5 (1998)

Alea



Melody HORIZONTAL

Microtonality...

A Melody is a succession of single tones

Tuning: the process of adjusting the pitch of one or many tones from musical instruments to establish typical intervals between these tones

Equal temperament,

Scale: any set of contiguous musical notes

Range: the range of the notes

Interval: the distance between a note and the following

Contour: the trend of a melody

Gliding: the continuity between a pitch and the following

melody

scale, tuning,
range, interval,
contour



Harmony VERTICAL

frequency

An harmony is the combination of simultaneously sounded notes

voicing, quality (minor, minor...)

harmony

Tuning: the process of adjusting the pitch of one or many tones from musical instruments to establish typical intervals between these tones

Chord: the minimum part of a harmony. Composed of three or more notes in Western music

Quality: the qualities of the component intervals that define the chord

Voicing: the order of the set of musical notes

Range: the range of the notes

Articulation: the micro-distance in time between the notes



Timbre GLOBAL Texture It's not only about timbre

texture is the local configuration that music takes on, moment by moment, generated by the values and structures of all musical parameters: pitches, durations, dynamics, timbres, spatial arrangement.

Monophonic: made of one-single melodic line

Polyphonic: consisting of two or more simultaneous melodic lines.

Homophonic: a main melodic line is supported by one or more additional musical lines that add harmonic support.

Heterophonic: created by simultaneously varying a single melody.

Micropolyphonic: many lines of dense canons moving at different tempos or rhythms, thus resulting in tone clusters vertically.

What if we focus on the timbres? A new classification? The **spectromorphology** approach.

Article: "Spectromorphology: explaining sound-shapes" by Dennis Smalley

LINK

monophonic polyphonic heterophonic

imitative / non i

timbre

global

TEXTURE

General concepts

Western music

György Ligeti - Atmosphères (1961) Autechre - Caliper remote (1998) Fennesz - Happy audio (2001)



¹Balance approach

When we listen critically to music, it is always useful to try to mentally divide the various aspects of it. Compared to the historical period and musical genre the music analyzed refers to, some aspects are more innovative while others are more conservative. The composer's ability is to innovate but simultaneously remind the listener of something with which they are familiar. There are composers whose innovation is more prominent in one aspect of music than others in another. It is generally challenging to find innovative or conservative authors on all elements. Recognizing where the composer innovates and where he 'conserves' helps to understand better and contextualize what we are hearing.







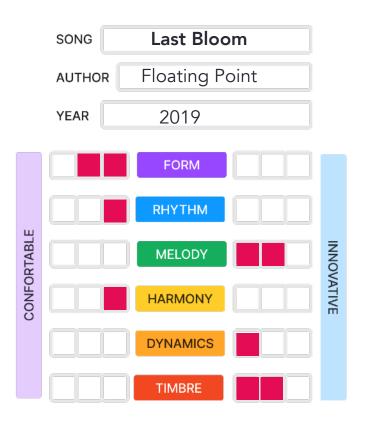
¹Balance approach

What is comfortable and what is innovative in a piece?

Interesting music tends to research a balance.

Valuations need to take account of:

- the historical period
- the artist's production
- the genre







²Focus approach

Which are the focus of the author of a piece?

This approach starts by assessing the relevance of the aspects that make up a piece of music.

It helps us to analyze the piece and the author, his compositional techniques and style, contextualising it to the period of composition and genre.

SONG			
AUTHOR			
YEAR			
FORM			
RHYTHM			
MELODY			
HARMONY			
DYNAMICS			
TIMBRE			
	-	fill 15 so	nuare





²Focus approach

Which are the focus of the author of a piece?

SONG	Journeyman			
AUTHOR	Amon Tobin			
YEAR	2011			
FORM				
RHYTHM				
MELODY				
HARMONY				
DYNAMICS				
TIMBRE				





www.tommasorosati.it