
Observational Hierarchy for Analysis

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Overview

Analysis may be defined as gathering and interpreting significant, meaningful information about music. To that end, all observations about music must be directly related to the aural experience. Analytical abstractions and theoretical models are valid only to the extent that they bear a direct relationship to the perception of sounds.

The aural experience is the cumulative effect of individual events that occur in the music and impressions which arise from the movement of the music. It has been postulated (Meyer, Randall) that the listener carries some experiential baggage into the music encounter, and that familiarity with a style or syntax becomes a frame of reference. A style is defined by conventions which are learned and culturally determinant. These conventions are identifiable patterns of organization and relationships in musical materials that are shared by similar pieces in a given style. Characteristic processes, relationship, norms, and principles identify the music of influential composers and schools of composition in particular style periods. These characteristic principles have been codified by traditional theorists, and the recognition of such factors as resolution and distribution of voices, structural molds and cadential formulate is used in identify styles. Discovering the conventions of a style should be an initial consideration in music analysis, since the expectations of the listener are a product of conditioning to musical materials and their organization within a particular style.

Style analysis employs a set of abstractions or general operative principles associated with a particular idiom. Assumptions can be made about pieces of music that fit within the context of a codified idiom. However, a contemporary work which does not use traditional harmonic or formal vocabulary exhibits its own structure and language. Therefore, assumptions must emerge from materials and relationships that form the conceptual basis of each new work. The unique characteristics of a composition offer more significant clues in explaining its structure than do the characteristics it has in common with similar pieces of music. This is particularly true of post-tonal music, since individual composers have developed styles which are highly personalized, and systems which may have direct applications for their works exclusively.

After initial consideration of the style period to which the music belongs, and comparison with other works by the composer and contemporaries, general observations should then be made based on aural impressions of the piece as a whole. Developing a broad overview of the composition as a complete entity rather than a collection of parts is the first objective.

Aural Impressions

As a first step in analysis, experience the emotional impact of the music as a whole without focusing on details. Make general observations, or mental notes, regarding the important events in the broad

dimensions of rhythm, pitch, texture, and shape. Principal gestures and the statements of thematic materials in each dimension are sensed in this process. In the dimension of rhythm, the duration of the work (brief vs. protracted) and the pace (forward movement vs. static inactivity) are immediately evident. Regarding pitch, the overall level of consonance or dissonance is an important factor, as are the primary vertical combinations and linear contours. In the dimension of sonic texture, note the source of the sounds (instrumentation) and density (layers). Contrasts in dynamics have a strong impact, as do unique tone colors and special effects. The most immediately identifiable aspect of shape is recurrence in any dimension. The articulation of large sections or events can be grasped aurally, and degrees of unity and variety create strong impressions. States of stability and unrest are highly noticeable, and smooth transitions between contracting elements effect the differentiation in their perception.

Ideally, preconceptions and expectations should be minimized in experiencing the emotional impact in order to reduce the referential bias. The true structural basis of the music may be obscured if a listener imposes organizational constructs that are not inherent in the music. Processes and relationships should be deduced from the music itself. Some inductive reasoning provides insight and is a basic analytical tool; but if principles or concepts are not correctly induced, the structure of a work is rendered meaningless through efforts to force it to conform to a prescribed system. On the other hand, the inability to identify all of the processes and relationships in a piece of music is no reason not to stipulate as many as possible. To obtain greater understanding of how individual elements or subfactors in the music interact to produce the perceptible impact, levels may be addressed individually.

Levels of Analysis

Armed with general observations regarding features of a piece of music which have a strong impact and capture the listener's attention, specific inquiries can be made into the processes and relationships of subfactors which produce the dominant effects. Once identified, the principal gestures and thematic materials can be assessed in detail. These details exist of what might be referred to as the "micro" level. Pitch source, methods of vertical and linear pitch organization, specific elements of timbre and texture, and rhythmic motives are the subfactors of concern. The shape results from their interaction. Once a status has been established or stipulated, the frequency and degree of contrast, direction of movement, and means of development can be observed. The subfactors are intrinsically correlated and focusing on the separate individual qualities of subfactors without subsequently establishing their relationship to the whole is counterproductive. The following inquiries are designed to elicit observations on the micro level, to determine the building blocks. Their relationships are investigated at higher levels.

Micro Level

The elements on this level are primitive and fundamental.

RHYTHM

Meter: pulse and rate; additive or divisive; active or inactive

Accents: placement of stress; symmetric or asymmetric; syncopation

Motives: smallest basic figures or patterns on the surface

Non-metric: proportional notation; static

Silence: articulative interruption of sound; frequency

PITCH

Source: Scales, Modes, PC sets, 12-Tone Rows; interval content

Linear:

Profile: steps, leaps; direction of contour

Motives: segments of rhythmically defined combinations

Lines: well-defined or absent

Focal tones: emphasized by recurrence, elongation, stress, or dynamics

Vertical:

Sonorities: interval content, density, common structures

Spacing: wide, clustered, or evenly distributed

Consonance: dominated by perfect 4th and 5th; 3rd and 6th

Dissonance: dominated by 2nd, 7th, tritone

SONIC TEXTURE

Sound source: instruments, voices, or synthesized

Density of layers: number of parts; weight

Spectral content: register of concentration: high, low, or centered

Dynamics: overall levels; terraced or tapered

Special effects: complex envelopes or timbres; vibrato, microtones

INTERRELATIONSHIPS

Nominal correlation discerned between elements

Motivic factors in rhythm and pitch

Interval content in linear and vertical fields

Spectral content factors in linear profile and vertical spacing

Middle Level

Dimensions on this level include functions, groupings, and proportions.

RHYTHM

Patterns: extended or combined motives; broad accentual basis

Polyrhythms: simultaneous patterns of varied accents

Rate of modulations: harmonic, timbral, metric, spatial, combined

Durations: length of spans

PITCH

Functions: symmetry, centricity, axial polarity, transposition levels

Linear:

Phrasing: grouping of motives; articulations

Direction: arrival and closure; growth and resolution

Tensions: convergence and separation; relationship to vertical sonorities

Vertical:

Progressions: direction dictated by increase or decrease of dissonance

Levels of tension: functions of composure and tension

Cadences: relaxation at points of articulation; return to tonal centers

SONIC TEXTURE

Dynamics: contrast between sections

Levels of activity: figure-ground distribution

Combined tone colors: mixture; foreground compared to background

SHAPE

Structural functions: may exist in any dimension

O: original materials, principal themes or gestures

R: repetition (literal)

D: development or variation

N: new or contrasting material

S: secondary materials, contrasting but not necessarily new

T: transitional material

I: introductory material

K: closing, articulative functions

Recurrence: partial or total repetition in any dimension (determines recognition of shape)

Contrast: balance of unity and variety; degrees of differentiation

INTERRELATIONSHIPS

Strong interaction among elements, correlations identified:

Rhythmic patterns and phrase groups in linear motion

Rate of modulations and parameters which are involved

Direction of lines and vertical progressions; cadences

Levels of texture and linear/vertical reconciliation; contrast

Structural functions dependent upon activity in any or all dimensions

Macro Level

This level consists of a single dimension, the entire composition.

RHYTHM

Duration: relative length of large spans to the whole

PITCH

Tonal elements: combined interaction of linear and vertical parameters; overall direction and collective features of phrasing and tension; skeletal reduction

SONIC TEXTURE

Characteristic sounds: primary textures, sonorities, timbres, and dynamics; overview of contrasts

SHAPE

Organization: relationships of sections of spans to the whole; growth and balance; proportion

INTERRELATIONSHIPS

Fundamental aspect and primary consideration

Cumulative effects of multiple relationships

Combined interaction in all dimensions

Analytic Process

Initially, aural impressions are gathered to determine which parameters weigh most heavily in the construction of the piece. Observations are then made regarding the dimensions of rhythm, pitch, and sonic texture on the **Micro** level. These observations are then grouped or combined to define their functional relationship to the structure on the **Middle** level. Some associations, such as phrase construction and tension levels achieved by degrees of dissonance are perceived on both Micro and Middle levels. The organization and shape of the music is illuminated by correlating the interacting elements and groupings identified on the Middle level and defining their relationships on the **Macro** level.