

FUNDAMENTALS

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Fundamentals of Western Music

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To Nancy and Ian

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Preface

Music of the world is as diverse as the cultures that create it. Methods for transmitting musical ideas are equally varied. In Western civilization a system of notation has evolved that allows transmission of musical thought with utmost precision. The notation applies equally to all genres, whether symphony, folk music, popular music, or jazz.

This book is an introduction to reading and notating Western music. It is designed to serve as a textbook for a one-semester course at the college level. Students need no prior knowledge of music. The course of study will foster an understanding of and appreciation for the roles of composer, performer, and listener.

Beginning with a discussion of a musical tone and its characteristics, the text then discusses the notation of durations in metric and rhythmic groupings, the notation of pitch and its organization in scales, keys, and intervals, and finally combinations of duration and pitch culminating in melody and harmony. Later chapters deal with more advanced rhythmic and pitch organization and present an introduction to the forms of music. The book is arranged so that, as much as possible, chapters concerning pitch alternate with chapters dealing with duration. In the authors' experience, such alternation is essential in maintaining student interest and is more conducive to assimilation and retention. However, instructors who wish to present chapters in a different order will find that the book has the flexibility to accommodate them.

The book's course of study provides skills that enable students to read and sing music of folk-song difficulty. Exercises for each chapter test the student's progress. Musical examples with words, which makes music seem less abstract, culminate in the student's writing a melody and accompaniment for a short poem. For instructors who wish to use the piano as a laboratory instrument, piano exercises based on the material of each chapter are included.

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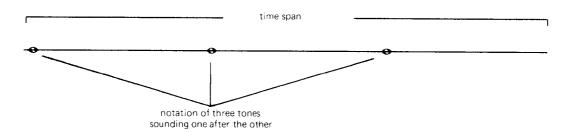
CHAPTER

1

Musical Sound: Its Origin and Characteristics

TONE

Music is a series of tones experienced within a period of time. The representation of these tones on paper and how this musical **notation** is read and interpreted are fundamental to the study of Western music.



The term *tone* is to be distinguished from the term *sound*, as sound encompasses all aural impressions. Random sound is noise and is the result of irregular vibrations of a vibrating body. Tone is a refinement of sound as the result of regular vibrations.

sound tone (regular vibrations)
noise (irregular vibrations)

Tone is initiated by a vibrating body. For instruments such as those of the violin family the vibrating body is a string that is plucked or bowed. A piano string is struck by a hammer. The vibrating body of drums is a taut membrane, also struck, and

for wind instruments it is a column of air within the hollow tube of the instrument itself. However the vibration is initiated, it causes waves to be set up in the air that eventually strike the eardrum as sound.

To understand musical sound a single tone must be examined. A single tone has four characteristics: pitch, intensity, duration, and timbre.

PITCH

Pitch is the location of the tone in a high-low sound spectrum. A high tone is the result of rapid vibration of the vibrating body. Conversely, slow vibration produces a low pitch. Pitch also depends upon the length and thickness of the vibrating body. A brief examination of the piano or harp reveals that the long, thick strings produce low pitches, whereas the short, thin strings produce high pitches. Larger wind instruments produce lower sounds than smaller ones because the air columns are longer and thicker. Pitch is also affected by air pressure. For example, because air pressure constantly fluctuates, string and wind instruments must constantly be adjusted to remain "in tune."

1.1 Ear Exercises: Pitch

Instructor:

1. Matching pitches. Play a pitch and its octave on the piano. Have students sing the pitch on a neutral syllable (such as ah, la, or loo).



Repeat with other pitches.

 Differentiating higher and lower pitches. Play consecutively two different pitches in octaves. Have students match the pitches and note whether the second pitch is higher or lower than the first.

Examples:



Repeat with other consecutive pitches.

1.2 Reading Exercises: Pitch

With two tones represented in space as lower, σ , and higher, Δ , sing the following on a neutral syllable.

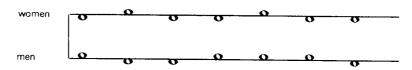
1. 0 0 0 0 0 0 0

Instructor: Give first two pitches. Exercise 1 should sound as follows:



Indicate each tone with a hand signal. Repeat with other tones.

2. duet



^{1.} In this and following chapters use neutral syllables unless otherwise indicated.

Instructor: Give first two pitches. Exercise 2 should sound as follows:



INTENSITY

Intensity or loudness is caused by the amplitude of the vibrating body. Force causes wide vibration. If vibrations are created with great force the resulting tone will be loud, and if vibrations are created with little force the tone will be soft.

Intensity is represented in notation by symbols that are abbreviations of Italian words.

ff fortissimo very loud f forte loud

• mf mezzo forte moderately loud

• mp mezzo piano moderately soft

• p piano soft

• pp pianissimo very soft

A gradual increase in intensity (*crescendo*, or *cresc.*) is indicated by diverging lines.

pp _____ ff

A gradual decrease in intensity (*decrescendo*, or *decresc.*; alternatively *diminuendo*, or *dim.*) is indicated by converging lines.

f ______mp

The terms signifying varying degrees of intensity are all relative. One performer's *piano* may be softer than another performer's, but however soft it is the *pianissimo* of each will be even softer.

All terms and symbols referring to intensity are called **dynamic markings** or simply **dynamics**.

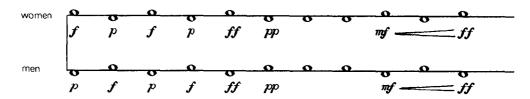
1.3 Reading Exercises: Pitch and Intensity

Sing the following.

Instructor: Give pitches and hand signals as in Exercises 1.2.



2. duet²



DURATION

Duration refers to how long a tone continues. Duration is limited by the instrument—for example, by the length of time a piano string vibrates or by the length of the bow of a string instrument. It is also limited by the performer—for example, by the breathing time of a singer or wind player. In notation, duration is mathematically measured, as one written tone has a duration directly proportionate to that of another.

^{2.} Where no dynamic marking is present, the intensity level remains the same as last indicated.