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Volume 4, Appendix 1 (= Volume 1, Section 1.1.2) THE CHROMATIC SCALE AND THE PIANO

Pattern of the piano keyboard

This section uses the piano, but the concepts apply to other instruments and voice also. The piano repeats a pattern: groups of two black keys alternate with groups of three. Every white key just to the left of a group of **two** black keys is labeled as C. After G, the letter names start over with A.



Half step Natural half steps	A half step is the distance from one piano key to the next closest (whether it happens to be white or black). E to F is a half step, because E and F are next to one another. Similarly, B to C is a half step. E to F and B to C are the only natural half steps because they use letter names without accidentals.					
Accidentals	The black keys use the letter of an adjacent white key plus a modifier called an accidental . The most common accidentals are:					
Flat, natural, sharp	4. $\flat = \mathbf{flat}$; one half step lower than (left of) a white key 5. $\natural = \mathbf{natural}$; cancels other accidentals; indicates white notes on a piano					
	6. # = sharp ; one half step higher than (right of) a white key					



EnharmonicEnharmonic notes are different names for the same piano key. Fornotesexample, the black key called C sharp is one half step above C, but also onehalf step below D. C sharp is enharmonic with D flat. White keys also haveenharmonic names: B raised one half step with a sharp is the white key C.

Double flatA double flat lowers a flat note by another half step, keeping the same
letter name. Double flats are thus two half steps lower than the white key
(natural) note. Similarly, a double sharp (looks like an x) raises a sharp
note by another half step, keeping the same letter name. Double sharps are
two half steps higher than the white key (natural) note.



All enharmonics The piano keyboard below shows all the enharmonic names for the keys.

C# D D♭ El B× F♭)# [b bb	F G E	# G# A 60 Ab B × C		с# 66 СЮФ	C D B	C# D D E x F)# 1.5 15
С	D	Ε	F	G	Α	В	С	D	Ε
B#	C×	D×	E#	F×	G×	A×	B#	C×	D×
D₩	E⊭	F♭	G₩	A♭	Bb	C♭	D♭	E♭	F♭

Whole stepA whole step is two half steps. For instance, for C up to D, the two half
steps are C to C# and C# to D.

ScaleA scale (from the Italian word for ladder) is a series of notes from low to
high (or high to low) following some pattern of whole steps and half steps.Chromatic scaleA chromatic scale lists all the notes (white and black keys) in order, usually
from C to the next C above or below. Chromatic scales use only half steps.Ascending chromatic scales use sharps for black piano keys.Descending
chromatic scales use flats for black piano keys.

