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« Musical Contour
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新達 > score - musical notation

音符 > note - representation of pitch

稿 > pitch - single Musical Sound

政治 > staff - the five horizontal lines

> contour - "shape" of a melody

> descending contour - notation on staff moves down ward from left to right

each note lower than previous

> ascending contour - higher notes more from left to right

小学 > bar line - verticle lines on staff

#15 > measures - equal amounts of time

c Pitch Notation

> letter name of notes

畜名 > Musical alphabet - ABCDEFG

· When counting, include the first tetter

音程 >intervals - distance between letter name pitches

、海部 >octave - pitches separated by eight letter names

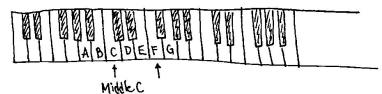
> octave equivalence - pitches an octave apart sound similar

« Piano Keyboard

鹇

中央C > Middle C - the C closest to middle of the keyboard

· No black keys between FF and BC



《Staff Notation 五线谱记谱法

. Staff have 5 lines, 4 spaces

· bottom 1 , top 5

· note heads - oval

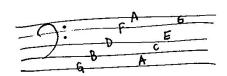


*** Treble and Bass Clef 高音之低音谱号

> clef - symbol appears far left of staff, denote corresponding pitches

高峰谱 >tteble clef - G clef, higher notes

很错误 > bass clef - F clef, lower notes





-- Naming Pitches with Octave Numbers

> octave number - specify which octave pitch appears

- · lowest C on piano C1
- · highest Con piono C8
- · middle C on piano CH
- · octave : c -> B

*** ledger lines 附加线

BHHO线 · ledger lines - extra lines extends above I below staff

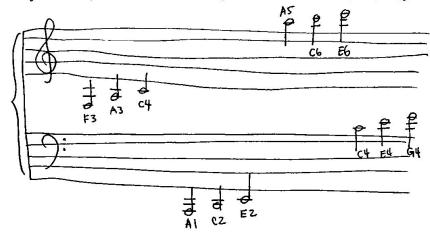
< The Grand Staff 大谱表

村龍

音城

> grand Staff - a treble Staff and a bass staff connected by a curly brace and a line

> register - highness or lowness of a pitch (the octave which it lies)



< Writing Music

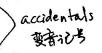
- . Stem goes up on right side, if above middle line
- · stem goes down on test side, if below middle line P
- · draw ovals for notes
- · Stem spans octave
- · notes above staff, no ledger lines above
- · notes below staff, no ledger lines below

C#

cec Sharps, Flats, Naturals

> sharp sign (#) - raise any note to the next

> flat sigh (b) - lower any note to the next



> natural (4) - returns pitch to natural state

· accidentals applies within a bar

> enharmonic - sound the same but spelled differently

· accidentals on the left of notes in staff, on the right of note name

er Half Steps & Whole Steps

> interval - distance between any two notes

> step - any two adjacent keys on keyboard

> half step (semitone) - interval between any pitch & next closest pitch on keyboard > whole step - two half steps

> diatonic half step - half steps spelled with two adjacent letter names (G-Ab)

> chromatic half step - half steps spelled with same letter name (G-Gitt)

coe Double Shurps & Flats ...

> double sharp (x) - raise pitch-by two half steps.

> double flot (bb) - lower pitch by two half step

20 Oct 2020

simple Meters

MUSIC 116

ca Meters

> simple meter - pieces with beats that divide into two

> beat - primary pulse { beat division

> meter - how beats are divided and grouped

> duple - beats grouped into twos (S-W)

> triple - beats grouped into threes (S-W-W)

> duagrable - peats almost into toniz (2-M-2-M)

> tempo - speed

> metrical accepts - strong beats in a meter

>dynamic -volume

«Rhythmic Notation

> duration - time a note lasts

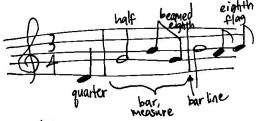
> rhythm - pattern & longer & shorter duration

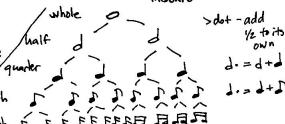
--- Meter Signature (Time STg)

neter 3 - beat quantity - # beats per bar sig. 14 - beat unit - Which note gets one beat anacrusis #3. te - weaker beat preceeds strong one

 $\cdot C = \frac{4}{4}$ common time

· == 2 cut time





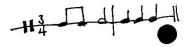
200 Counting Phythm in Simple Meters

	meter sig.	heat quantity		beat upit			beat division	
25	2	2	-	4	لم .		53	
	¥	3		-4	٦		53	
	4(0)	4		4	4			٠
	₹(¢)	2_		2.	d	¥.	لم له	
	3 2	3		2	لم		2 4	1
	1	4		٠ ٧	d		. 1 4	

. 4 : 1-2-3

8: 122232

. thythm clef - two verticle lines preceding meter signature



> rest - duration of sitence



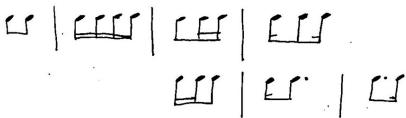
Beat Subdivision

· In simple noter, beat divides into two, subdivides into four

1 divide, 1 subdivide; 11 (or 11)

-> Phythmic Pattern of Quarter Note

ch4



. The beauting reflects boat unit

<" Ties and Slurs

> ties - arcs connecting note heads of two identical pitches (can have same/diff duration)

- · played together with sum of duration
- · not played separately
- · accidental continues with tie

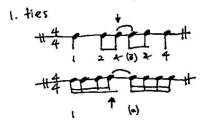
> slur-- arcs connecting diff pitches

· indicate smoothness / breath / tonguing / bowing

4 Syncopation 47 %.

> syncopation - when expected accept is displaced - moved to another beat or part of a beat by dots, tres, rests, dynamic markings, accent marks.

-> types of syncopated thythm (cross beats)



syncopation pattern of quarter note (within beat)

2. 123/5

3. accent mark

< triplets

> triplet - three-part division of beat In simple meter

< Scales 音竹

> scale - ordered collection of pitches

- primary pitches in ascending order who repetition
- · each note in a scale separated from the next by whole I half-step
- · first pitch often repeated an october higher at the end

《《Major Scales 大调音阶

- >major scale pattern of WWHWWWH in ascending order ...
- > diatonic scale scales made of W and H steps and include all seven letter names.

acc Scale Degree

- > scale degree each pitch of the major scale \$50 (1,2,3,4,5,6,7) (8=1)
- >tonic the first safe degree
- > major key melody gravitates to tonic of that scale
- >transposing write melody in another key
- > movable -do soffège assign each scale degree a syllable do, re, mi, fa, sol, la, ti, do
- > fixed-do solfège- associate do with C, re with D ... so forth regardless of scale - Scale Degrees
 - .1 tonic tone which scale is built
 - -2 supertonic above ?
 - · 3 mediant midway 1.5, equidistant above below
 - · if subdominant equidistant above toothed traic like dominant took subdom.
 - -3 dominant dominates tonal music
 - · 6 submediant three below tonic, three above mediant
 - .7 lading time (kindency tone) have tendency to move up to ? . 1234369

200 Writing Major Scale

- > tetrachord four-note group
- · Major scale has eight pitches tonic repeated
- · All accidentals should be either sharp or flat, no mixture:

Major Key Signature

> makey signature - signs after clef sign instructs applying accidentals throughout the piece c G DAEBPACT

· sharp: FCGDAEB fa do sol re la mi ti.

· flat : BEADGCF

. Determine major key from signature:

· sharp: the last sharp is 7, go one half step up is ?

· flat : the last flat is 4°, count down 4 steps is 1°.

(second to last flat is ?)

< Circle of Fifth

- # goes 5 steps up , b goes 5 step down

> arrangement of key signature by # of starps & flats in a circle



the stripe of th
- Compound Meters
> compound meters - each beat divides into three parts
beats may be grouped into twos (duple), three (triple), or fours (quadruple)
· J. beat unit, divide into III, subdivide into IIII
- beat division
dotted whole
dotted half
dotted quarter J. J. J.
aighth III III III
sixteenth JIII JIII JIIII
Thythmic patterns Thythmic patterns Thythmic patterns
« Meter Signature
6 - top - # beats per bar times 3
8 - bottom - note value of beat division; add three of these divisions to get a beat unit
· compound duple - &
· compound triple - 3
compound quaduple - 18
« Subdivisions
, beaming reflects meter's beat grouping:
· § III ; not II II
« Duplets & Syncopation
> duplet - two part division in compound mekrs
-> Types of Syncopation
· III . I . ties from weak part of a beat a cross a strong part
1 1a li (2) la
. III III accept mark on weak beat I weak yart of boot
1 la li 1 lali
· ? I rest on strong part of beat
i la

« Asymmetric Meter

· Special effect, used rarely, with symmetric meter to create unstable > stable

5 ← prime number not multiple of 2/3.

8

... Parallel Keys

, parallel keys - major minor in same key (tonic)

· same tonic · share first five notes, with 3 -> b3

· diff key signature

· diff whole / half arrangement

> change of mode - changing between parallel major & minor

<- Natural Minor ..

> natural minor - WHWWHWW

> modal scale degrees - 3, 6, 7, helps distinguish major 4-minor

·major do re mi fa sol la ti do

· minor do re me fa sol le te do

1 2 13 4 2 16 17 1

Minor lacks the pull from 9 to 7 due to whole step, instead of half step in majorn com Harmonic Minor

> harmonic winor - WHWWH (Az)H do re me for sol le ti do

· features half step between 7 & ?

7 augmented second (Az) - interval between 66,7, equiv to a step and a half

· begin with natural minor, raise b? half step

b → 4 → # → x

(OR) . begin with major, lower 3 to 63 , 6 to 66

ere Melodic Minor

ascend with 6,7, descend with 69,66.

« Comparing Scale Types

> subtonic - 69 in natural minor

> raised submediant - 6 in melodic minor

« Relative Keys

= relative keys - keys that share same key signature (but diff tonic)

· rel major +> tel minor

-> Find rel minor from major

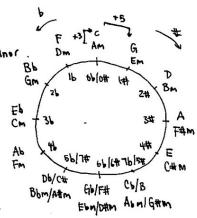
. Way 1: find ? of major, that's tonic of rel minor.

· way 2: S count 3 letters down of

-> Find rel major from Minor

. Way 1: find b3 of minor

· may 2: { count 3 letters up count 3 half steps up]



-~ Intervals

> interval - distance between two pitches < quality - major, minor, perfect

> melodic internal - internals measured between

→ Melodic

Successive pitches

> harmonic internal - intervals between simultaneous pitches

> octave - 8ve/8va , same notename

runison (U) - exact same pitch, no actual interval

count both beginning pitch a ending pitch

<= Internal Quality

> interval quality - diff of their sound when two intervals of the same size span a diff # of half steps

Interval Size.	Intonal Quality	augmented	augmented
2,3,6,7	Major (M)	MAJOR	perfect
	M) nonim	Minor	diminished
U. 4,5,8	perfect (P)	diminished	

Spelling Intervals Method 1: Using White Keys

· A major/minor interval retains its quality when matching accidentals are added to both notes.

- Seconds in Chiajer

. Major seconds (MZ): 1,2,4,5,6

· Minor seconds (mZ): 3,7

-> Thirds in C Major

. major thirds (M3): 1,4,5

· minor thirds (m3): 2,3,6,7

-> Fourths in C Major

· perfect fourth (P4): 7,2,3,6,6,7

· augmented fourth (A4): 4

· Minor intervals are half step smaller than major intervals

· Major -> winor, move 1 pitich toward the other < taise bottom note

·minor -> major, move 1 pitch away from the other - raise top note lower bottom note:

-> White Key Method interval

1. Given white key, write white key first, Idontify its quality, then adjust size by adding accidental on the other note.

2. Given note with accidental, white second note of interval with matching accidental, then follow #1.

< Inverting Intervals</p>

1. Keep one pitch stable.

Move lower note up an octave, or more upper note down an octave.

- · perfect \ perfect
- · Major A Minor
- 2. two interval gless sum to 9

$$\begin{array}{c} \cdot \mid \longleftrightarrow 8 \\ \cdot \mid 2 \longleftrightarrow 7 \\ \cdot \mid 3 \longleftrightarrow 6 \end{array}$$
 help to spell larger intervals 5-8 from 1-4 (kaown)

Abbr. # 1/stop

MZ

M3

W.

MI

tritine A4/65

1 octobe P8

** Spelling Intervals Method 2: Scale & Key Signature Method

1. Write the notes of the interval (Given bottom note)/unson U

2. Think of key signature of bottom note

- Major interval - major key sig.

- Minor interval - Winor key sig.

- perfect interval - major/minor key sig-

3. Add accidental to upper note if needed for #2

ccc Augmented a Diminished Interval

> a agmented - when major / perfect interval made a chromatic half step bighter larger.

> diminished - when minor | perfect interval made a chromatic half step smaller.

- · A41d5 are exactly three whole steps, six half-steps
- · use ψ , x , bb for augmented 2 diminished.
- · diminished laugmented intervals can usually be respelled as major lauthor intervals that are enhancemically equivalent.

For a	'start with	add accidental for one pitch
din 3.6.7	m 3,6,7	inword Yz step
dim 4,5,8	P 4,5,8	inward Yester
ang 2.316	M 2,3,6	butward 1/2 step
ang 4,5,8	P 4,5,8	outward 1/2 step

--- Compound Intervals

- > compound intervals intervals larger than octave
- · simple intervals octave or smaller

« Consonant & Dissonant

- > coasonant U, PS: P8: M3: M3. m6, M6: melodic P4
- > dissonant m2, M2, m7, M7, harmonic P4, any aug or dim

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<< Triads
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> texture - how trorizontal & vertical component join

>homophonic - all voices in musical texture move together with ideatical rhythan

- chords - intervals made by homophonic voices

> triad - three-note chord built from stacking two thirds

> root - lowest note

> third - middle note

>fifth - top note

> major trind - m3] ps

>minor trad - M3] ps

> quality - difference between triad types

> bombled - a chord member appear in two places, an octave (or mure) apart

Triad Quality in Major Krys

> diminished triad - m3] d5

· major triad - 1.4.5

· Minor triad - 2,3,6

· diminished triad - 7

I ii II I vi vii I

D Minor (D-F-A)

· triad labels { major - capital (I) Minor - lowercase (i) diminished - lowercase with circle (i")

<-- Triad Quality in Minor Keys

· major triad - 1,4,5

· minor triad - 3,6,7

· diminished triad - 2

> augmented trial - M3 JAS

69 | Natural MINOT I