

THE SECRETS OF ORCHESTRATION

CHORD VOICING

ROVSHAN ASGARZADE

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2019-2023



This online orchestration course is based on the curriculum lectures of “Orchestration” taught to **Azerbaijan National Conservatory** “Composition” major undergraduate students in the 2nd and 3rd semesters.

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Azərbaycan Milli Konservatoriyası
“Musiqi tarixi və nəzəriyyəsi” Fakültə
Elmi Şurasının 16 dekabr 2020-ci il
tarixli iclasının 04 sayılı protokolundan



QƏRAR

Bakı şəhəri

№ 74 «16» Dekabr 2020-ci il

Qərar: “Dirijorluq” kafedrasının müəllimi Əsgərzadə Rövşanın tərtib etdiyi Bəstəkarlıq ixtisasında bakalavr dərəcəsi alan tələbələr üçün “Orkestrləşdirmə” adlı fənnindən proqram təsdiq edilsin.

Leyhinə - 12
Əleyhinə - 0

FES-nin sadri :  /C.B.Mirzəyeva /
Elmi katib:  /Z.R.Hüseynova /



Academic Sources

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PART ONE

Orchestral Chord Voicings

PART TWO

Orchestral Textures

PART THREE

Orchestral Effects



PART ONE

Orchestral Chord Voicings

Chapter 1.

Woodwind Section

Lecture 1.

Introduction to Chord Voicing



1. Notation Rules





Woodwind Section

Flute family

Piccolo
Flute
Alto flute
Bass flute

Oboe family

Oboe
Oboe d'amore
English horn
Bass oboe (baritone)
Heckelphone

Clarinet family

E \flat Clarinet
B \flat Clarinet
A Clarinet
E \flat Alto Clarinet
Basset horn in F
B \flat Bass Clarinet
B \flat Contrabass Clarinet

Bassoon family

Bassoon
Contrabassoon



Woodwind Section

Flute family

Flute



Piccolo



Oboe family

Oboe



English Horn



Clarinet family

Clarinet



Bass Clarinet



Bassoon family

Bassoon



Contrabassoon



The names of instruments in different languages

Abbreviation in English	English	Deutsch	Français	Italiano
	Woodwind	Holzbläser	Bois	Legni
Picc.	Piccolo	Piccoloflöte	Petite flûte	Ottavino; Flauto piccolo
Fl.	Flute	Flöte	Grande flûte	Flauto
Ob.	Oboe	Oboe	Hautbois	Oboe
Eng. Hn.	English horn	Englischhorn	Cor anglais	Corno inglese
Cl.	Clarinet	Klarinette	Clarinette	Clarinetto
B. Cl.	Bass clarinet	Bassklarinette	Clarinette basse	Clarinetto basso
Bsn.	Bassoon	Fagott	Basson	Fagotto
Cbsn.	Contrabassoon	Kontrafagott	Contrebasson	Controfagotto



Set-up of Woodwinds

Woodwind in pair's

2 Flutes I.II.
(II-Piccolo)

2 Oboes I.II.
(II-English Horn)

2 Clarinets I.II.
(II-Bass Clarinet)

2 Bassoons I.II.

Woodwind in three's

3 Flutes I.II.III.
(II-Alto flute) (III-Piccolo)

3 Oboes I.II.III.
(III-English Horn)

3 Clarinets I.II.III.
(II-Small Clarinet) (III-Bass Clarinet)

3 Bassoons I.II.III.
(III-Contrabassoon)

Woodwind in four's

4 Flutes I.II.III.IV.
(III-Alto flute) (IV-Piccolo)

4 Oboes I.II.III.IV.
(IV-English Horn)

4 Clarinets I.II.III.IV.
(II-Small Clarinet) (IV-Bass Clarinet)

4 Bassoons I.II.III.IV.
(IV-Contrabassoon)



Woodwind in three's

Flute 1,2

Flute 3
(Piccolo)

Oboe 1,2

English Horn
(Oboe 3)

Clarinet in B \flat 1,2

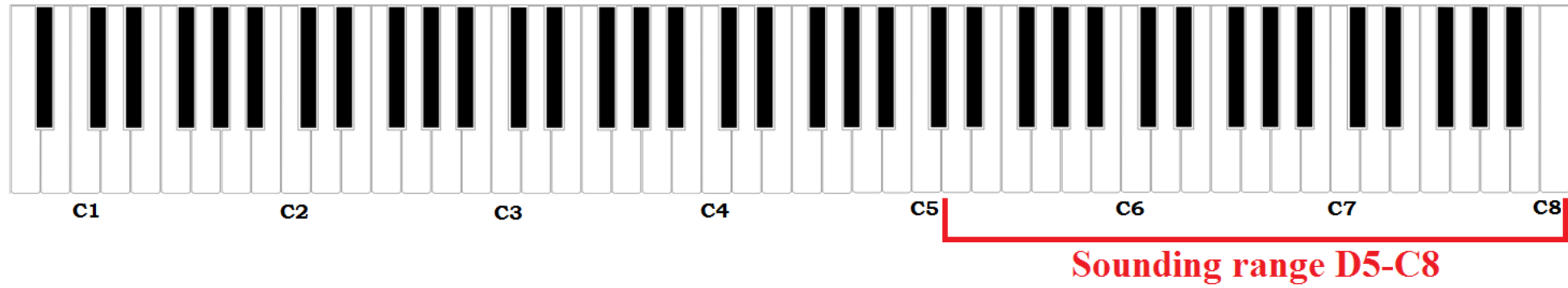
Bass Clarinet in B \flat
(Clarinet in B \flat 3)

Bassoon 1,2

Contrabassoon
(Bassoon 3)

2. Range of instruments

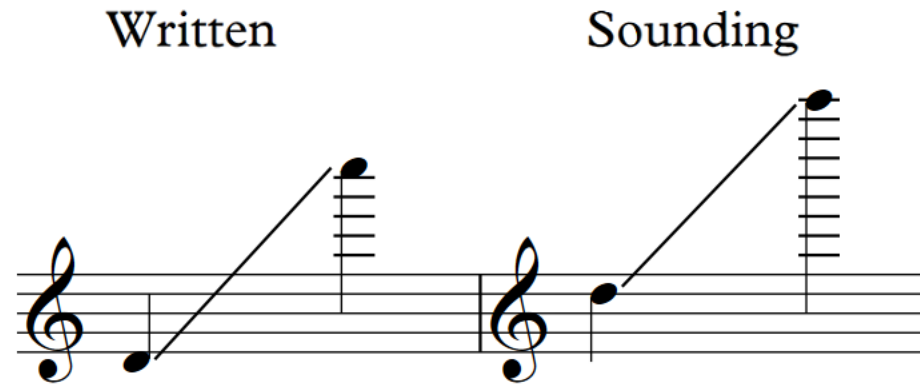
C4 is middle C



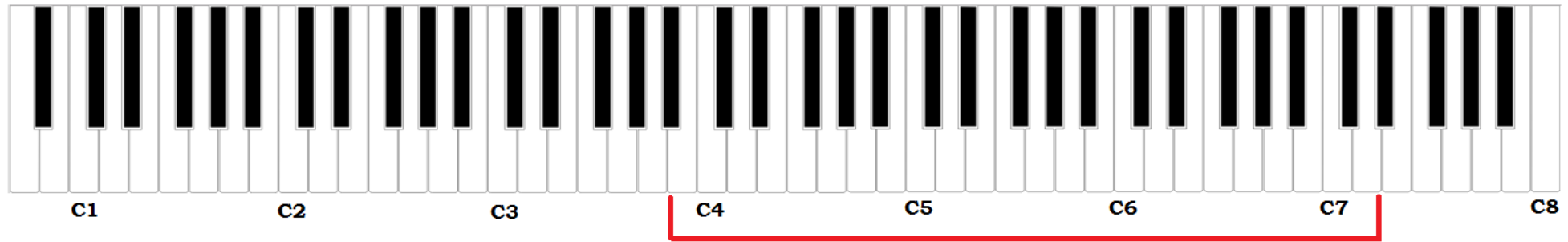
Piccolo



Is written a perfect octave (P8) lower than sounding



C4 is middle C

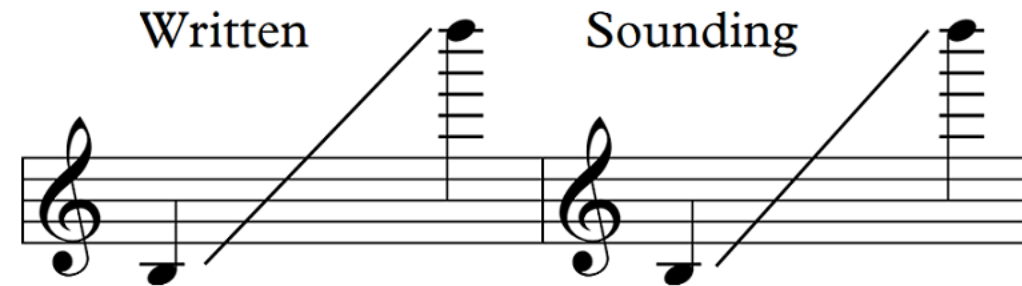


Sounding range B3 - D7

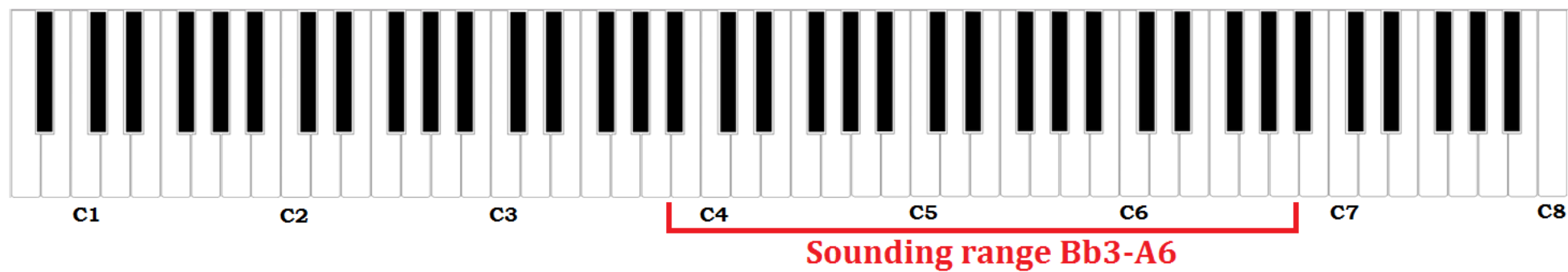
Flute



Written as sounding



C4 is middle C



Oboe

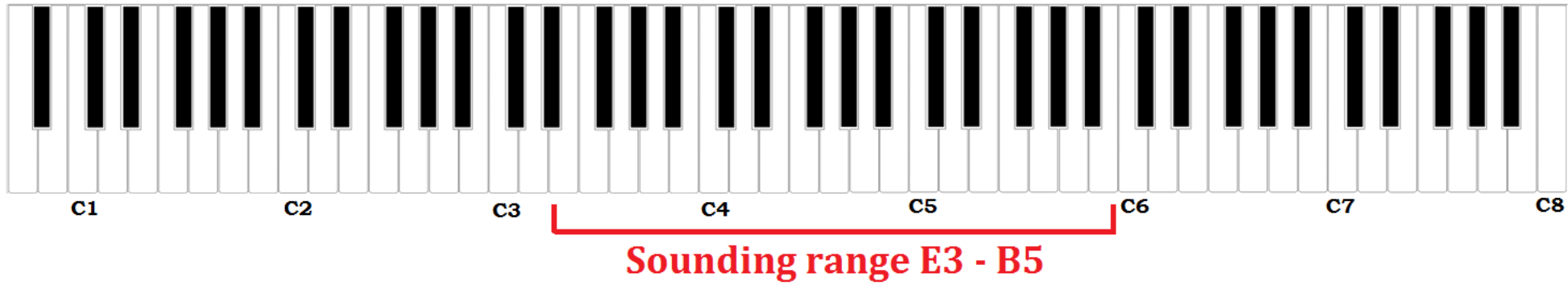


Written as sounding

Written

Sounding





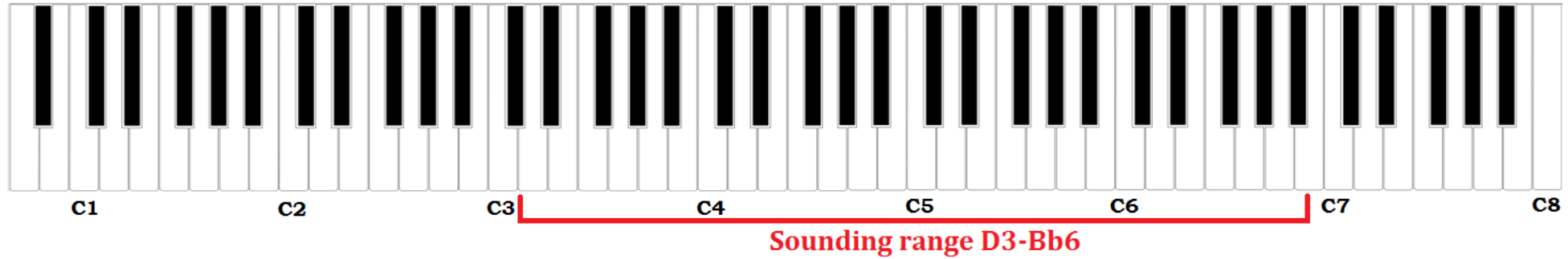
English Horn



Is written a perfect fifth (P5) higher than sounding

Written	Sounding

C4 is middle C



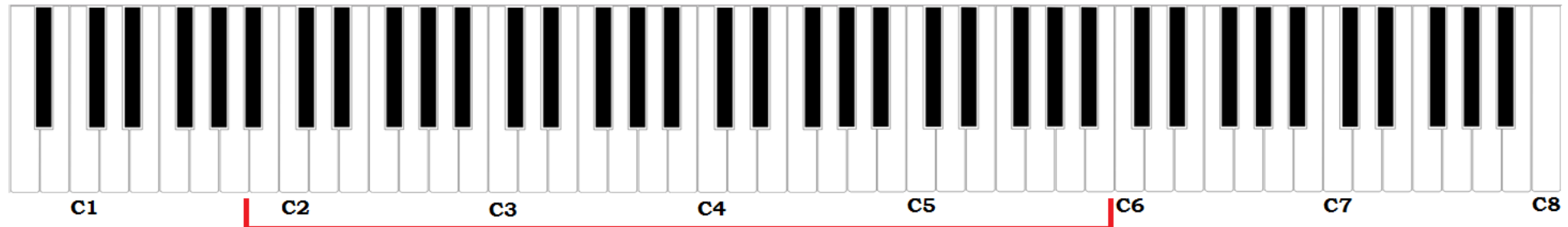
Clarinet in B \flat



Is written a major second (M2) higher than sounding



C4 is middle C

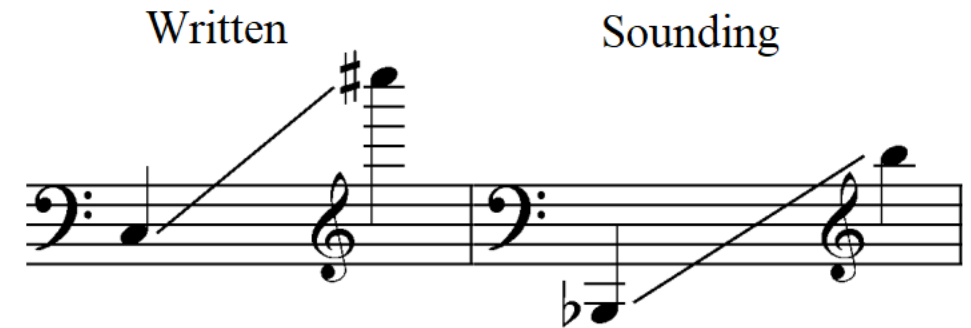


Sounding range Bb1 - B5

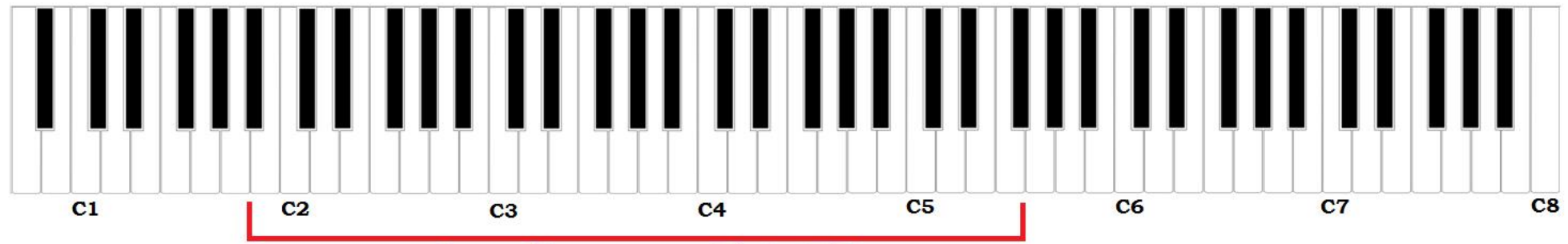
Bass Clarinet in B \flat



Is written a major ninth (M9) higher than sounding



C4 is middle C

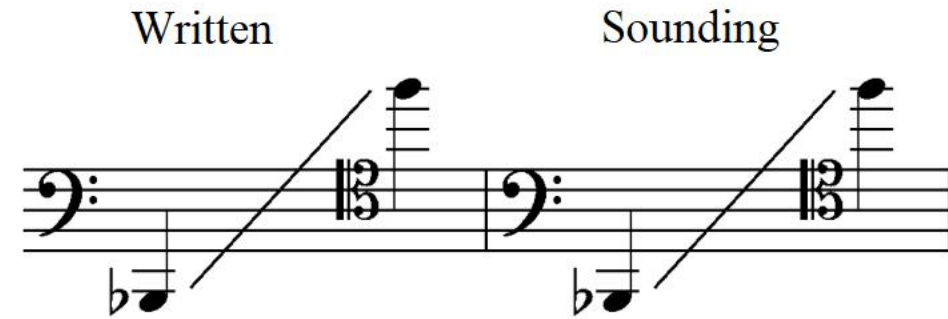


Sounding range Bb1 - F5

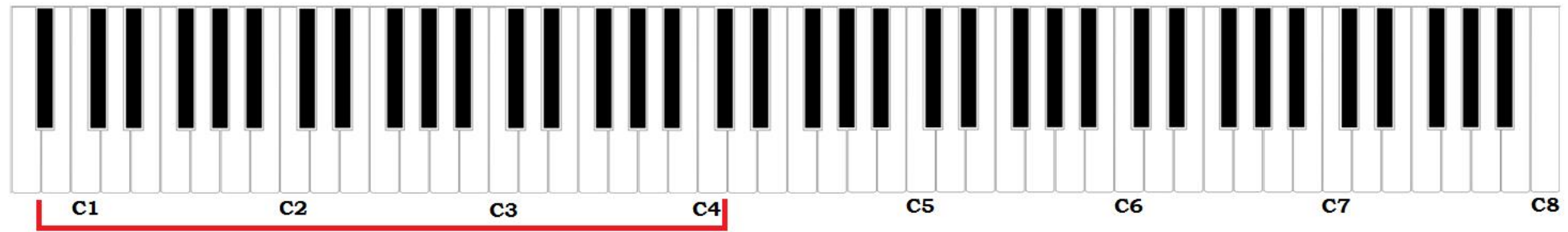
Bassoon



Written as sounding



C4 is middle C



Sounding range Bb0 - C4

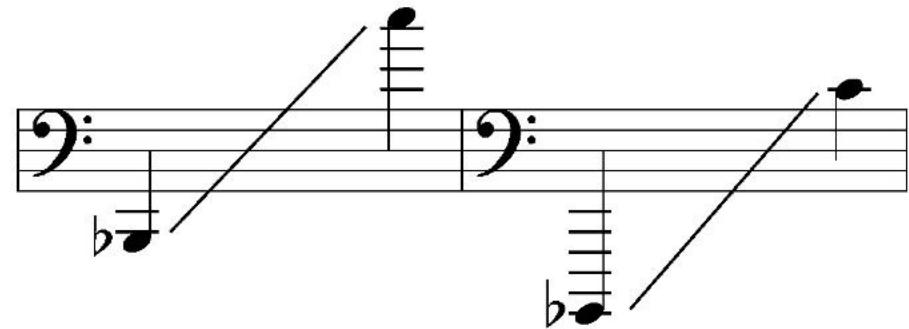


Is written a perfect octave (P8) higher than sounding

Contrabassoon

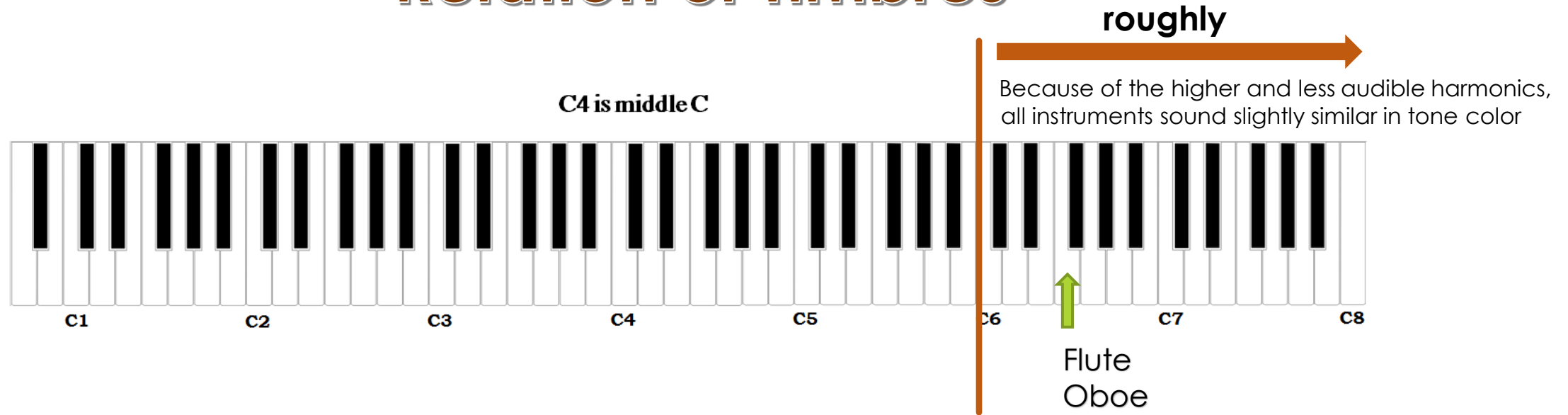
Written

Sounding



3. Relation of timbres

Relation of Timbres



HOT

Oboe
English Horn

WARM

Bassoon
Contrabassoon

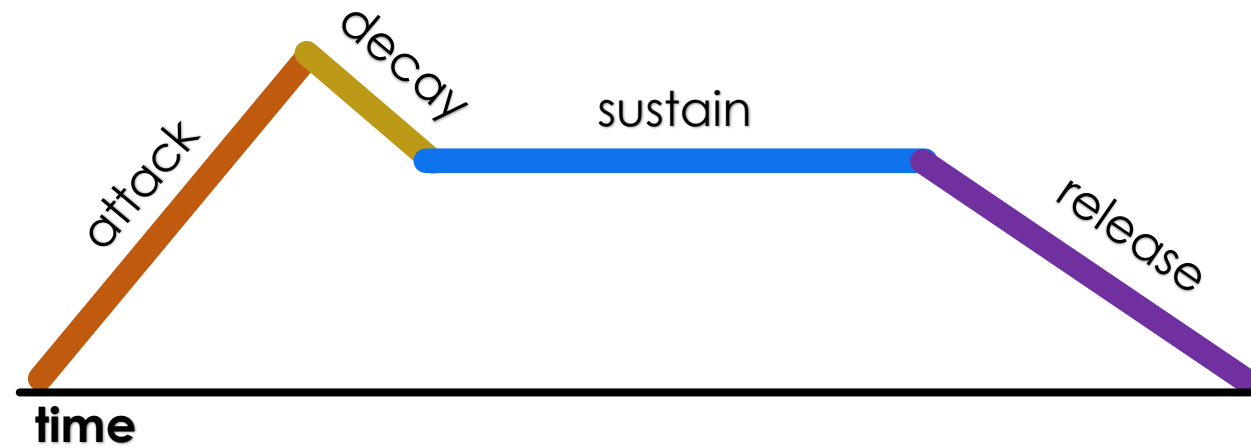
COLD

Piccolo
Flute
Clarinet in B^b
Bass Clarinet in B^b



4. ADSR

ADSR



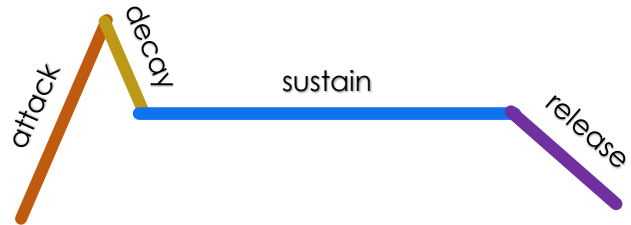
When a player starts playing an instrument, the “Attack” refers to the time which sound go from silent to loudest level.

“Decay” is the time for the initial falling off to the sustain level. In other words, the sound goes from peak to sustain.

“Sustain” is the time during which sound remains at this level.

“Release” is the time it takes to move from the sustain to its silent.

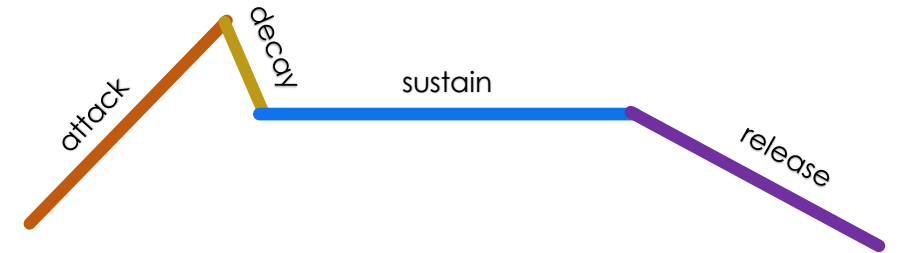
Snare drum



Fast attack time



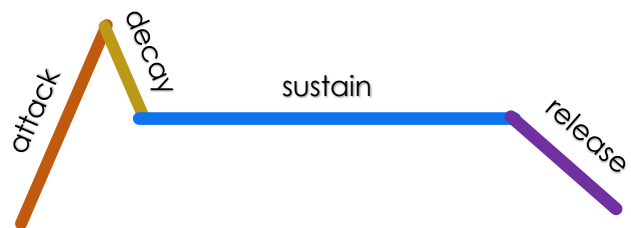
Bass Drum



Slow attack time



Oboe



Fast attack time



Flute



Slow attack time



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