

# THE SECRETS OF ORCHESTRATION

## CHORD VOICING

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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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№ 74  
«16» Dekabr 2020-ci il

QƏRAR

Bakı şəhəri

№ 74 «16» Dekabr 2020-ci il

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

Leyhinə - 12  
Əleyhinə - 0

FES-nin sadri :  
Elmi katib:

C.B.Mirzəyeva /  
Z.R.Hüseynova /

# Academic Sources

1. N. Rimsky-Korsakov – Principles of Orchestration, vol. 1, 1946
2. N. Rimsky-Korsakov – Principles of Orchestration, vol. 2, 1946
3. Walter Piston – Orchestration, 1969
4. Samuel Adler – The study of orchestration, 2002
5. Kurt Stone – Music notation in the twentieth century
6. Dick Grove – Arranging concepts complete, 1972
7. Charles-Marie Widor – The technique of the modern orchestra, 1906
8. Peter Lawrence Alexander – Professional Orchestration 1, The first key: Solo instruments & Instrumentation Notes, 2008
9. Peter Lawrence Alexander – How Ravel orchestrated: Mother Goose Suite, 2008
10. Məmmədağa Umudov – Alətşünaslıq, 2016
11. George Frederick McKay – Creative Orchestration, 1963
12. Alfred Blatter – Instrumentation and Orchestration, 1997
13. Gardner Read – Thesaurus of orchestral devices, 1953
14. Nicolas Slonimsky – Thesaurus of scales and melodic patterns, 1975
15. Glen Miller – Method for orchestral arranging, 1943
16. Alfredo Casella, Virgilio Mortari – The technique of contemporary orchestration, 1950
17. Üzeyir Hacıbəyli – Azərbaycan Xalq Musiqisinin əsasları
18. Крунтяева Т., Молокова Н. - Словарь иностранных музыкальных терминов, 1988
19. Vincent Persichetti – Twentieth Century Harmony, 1961
20. Cecil Forsyth – Orchestration, 1914



# PART ONE

# Orchestral Chord Voicings

## Chapter 2. Brass Section

### Lecture 10. French horn in F

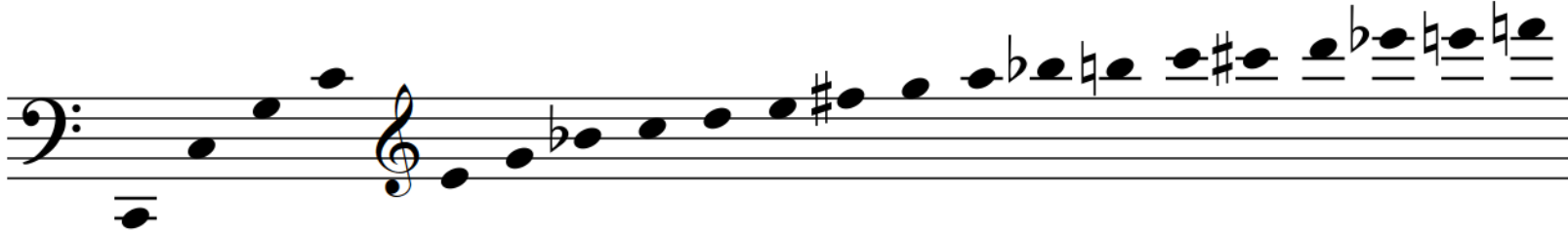


## Natural horn with a different crooks



# Overtone series in C horn

## Overtone series on C2



## Unplayable notes with **C2** fundamental



**N.B.**

*Overtone, harmonic, partial are the same meaning*



# French horn transpositions to Concert for older scores

*C alto* ---- sounds as written

*B<sup>b</sup> alto* ---- M2 lower than written

*A* ---- m3 lower than written

*A<sup>b</sup>* ---- M3 lower than written

*G* ---- P4 lower than written

*F* ---- P5 lower than written

*E* ---- m6 lower than written

*E<sup>b</sup>* ---- M6 lower than written

*D* ---- m7 lower than written

*C basso* ---- P8 lower than written

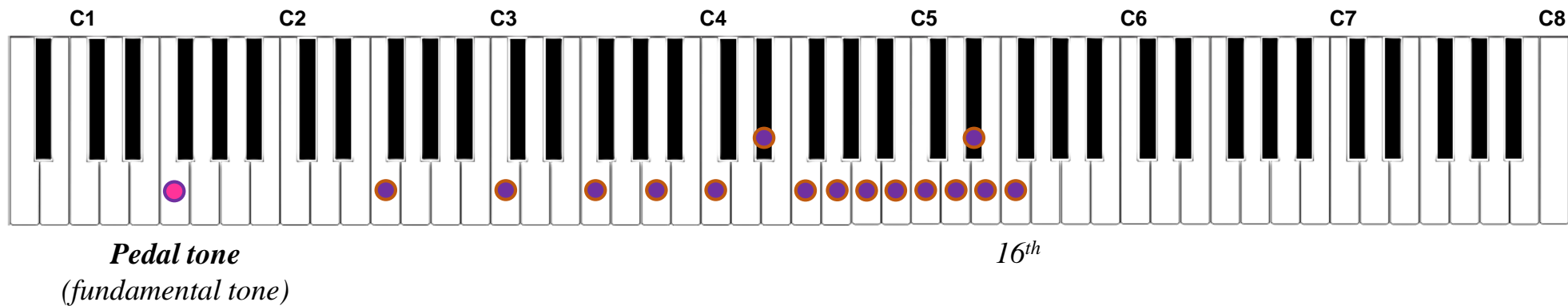
*B<sup>b</sup> basso* ---- M9 lower than written

*A basso* ---- P8+m3 lower than written

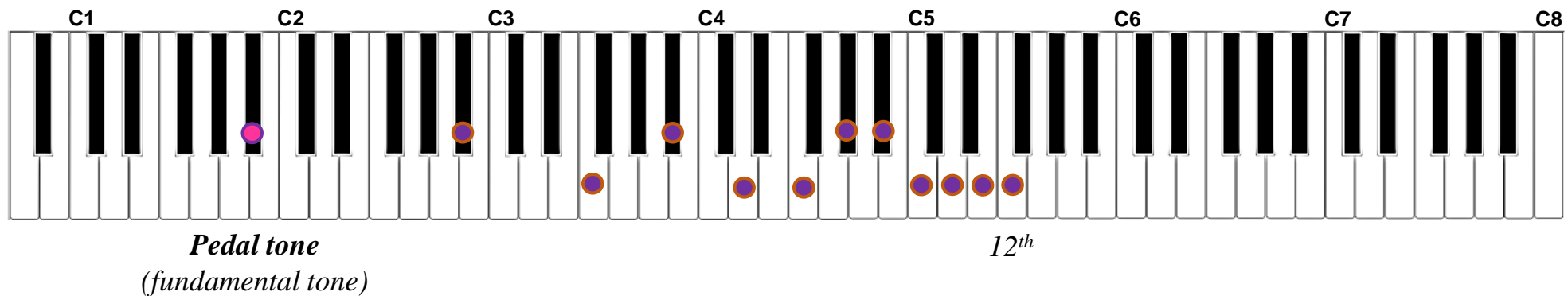


# Comparison of the Horn in F and Horn in B $\flat$

Horn in F



Horn in B-flat





F French Horn



B $\flat$  French Horn



F / B $\flat$  Double Horn



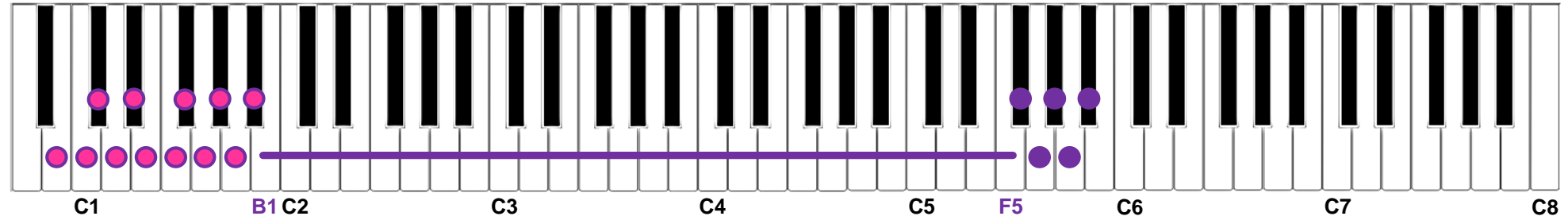
**N.B.**

*Some orchestra players also use triple horn.  
But this is not common.*



# Double Horn in F/Bb

*Sounding range*



*Pedal tones  
(fundamental tones)*



# Notation rules



Sounding	New Notation	Older Notation
		

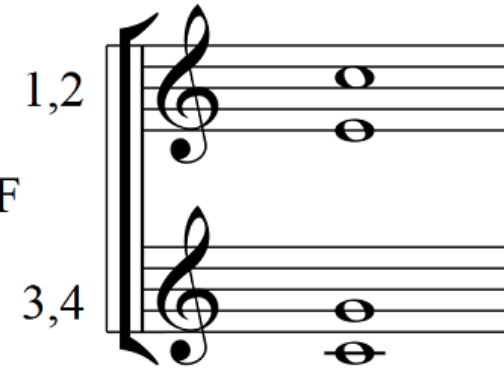
Sounding	New Notation	Older Notation
		



# Notation rules



Horn in F



Horn in F



1. The safe and professional sounding range of the horn is from **B1** to **F5**.
2. All notes above the **F5** are risky and should be avoided.
3. Some pedal tones can be used in chord voicing. Just avoid writing fast passages.
4. Due to its F and B-flat divisions, all chromatic notes are playable in double horn.
5. Regardless of what kind of horn (horn in F; horn in B-flat; double horn) is used, a notation should be P5 higher than sounding.
6. Horn parts should be written without a key signature at the beginning of the staff.



**CONCLUSION**



# secretsoforchestration.com

## Online Orchestration Course by Rovshan Asgarzade

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