

### Partial to the Winds

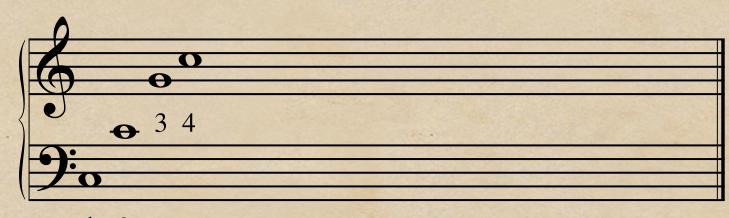
Scott and Max McKee

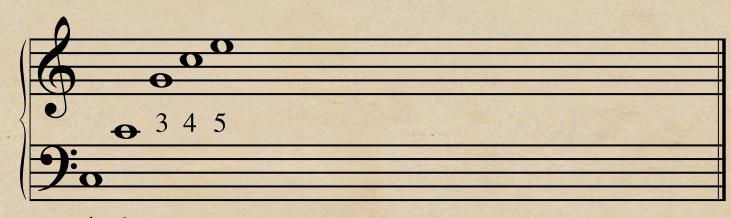


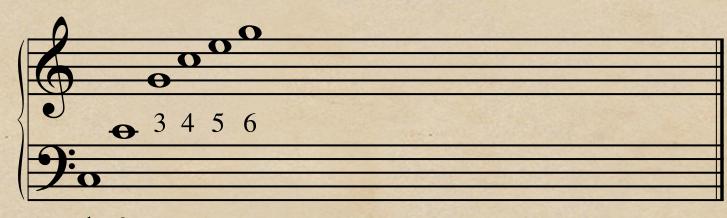


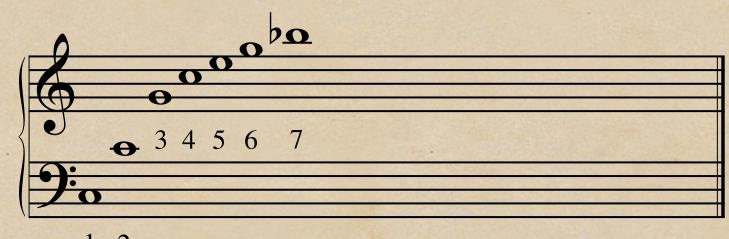


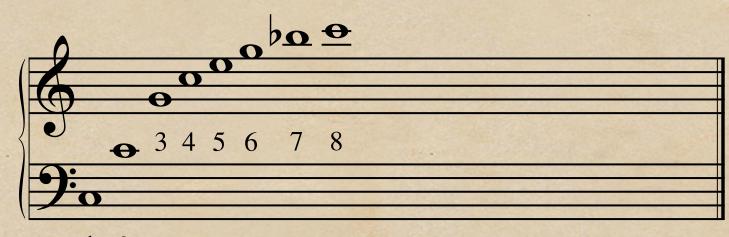










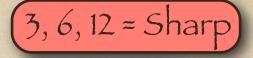














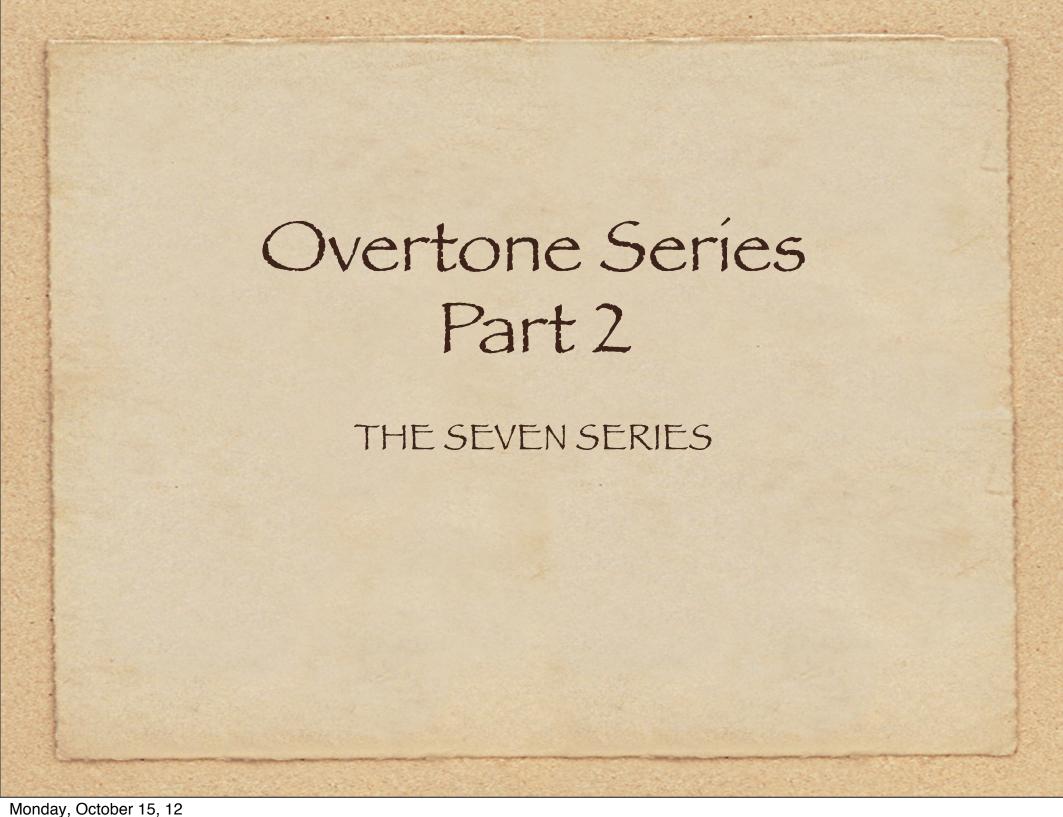


1, 2, 4, 8, 16 = OK

(sung to 3 Blind Mice)

3, 6, 12, 3, 6, 12

All are slightly sharp, all are slightly sharp 5 & 10 are moderately flat, 5 & 10 are moderately flat and 7 is very flat, 7 is very flat!





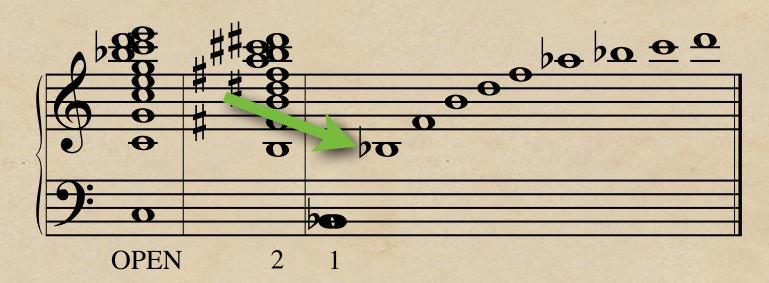


B Series (2nd Valve)



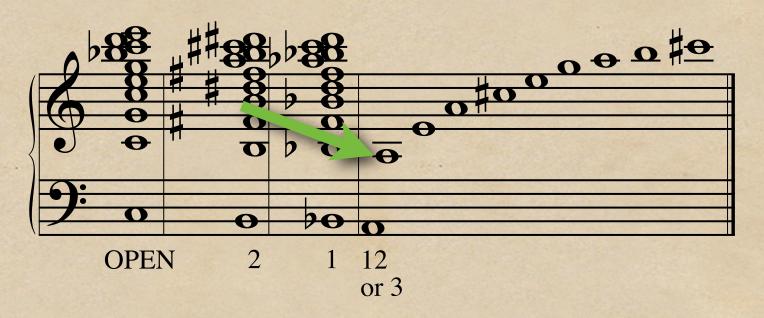


Bb Series (1st valve)

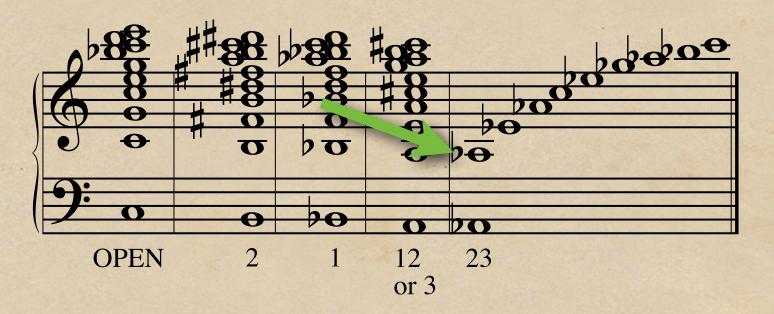




A Series (12 or 3)

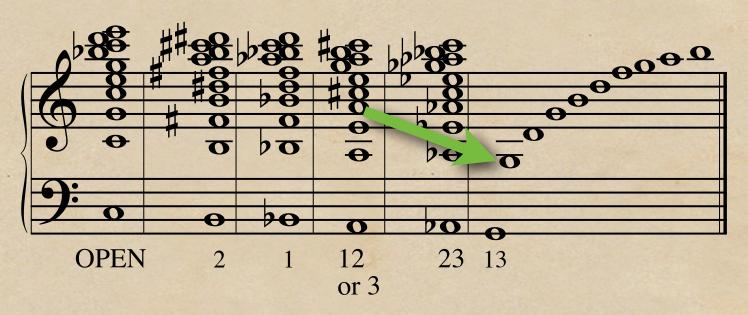






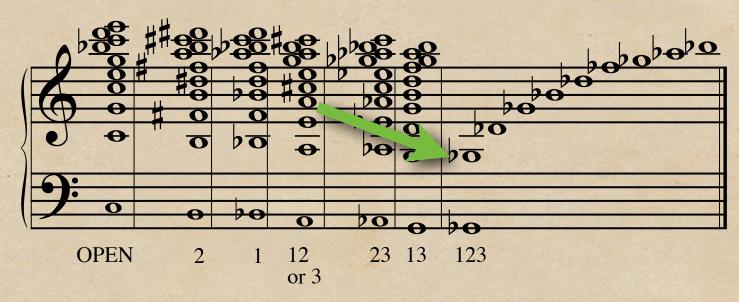


G Series (13)

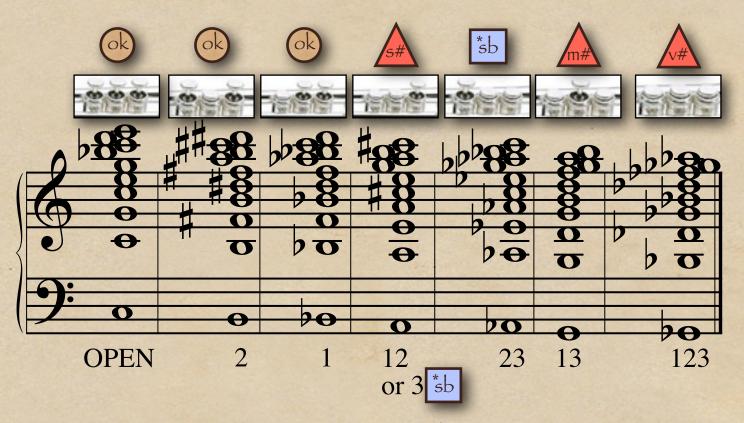




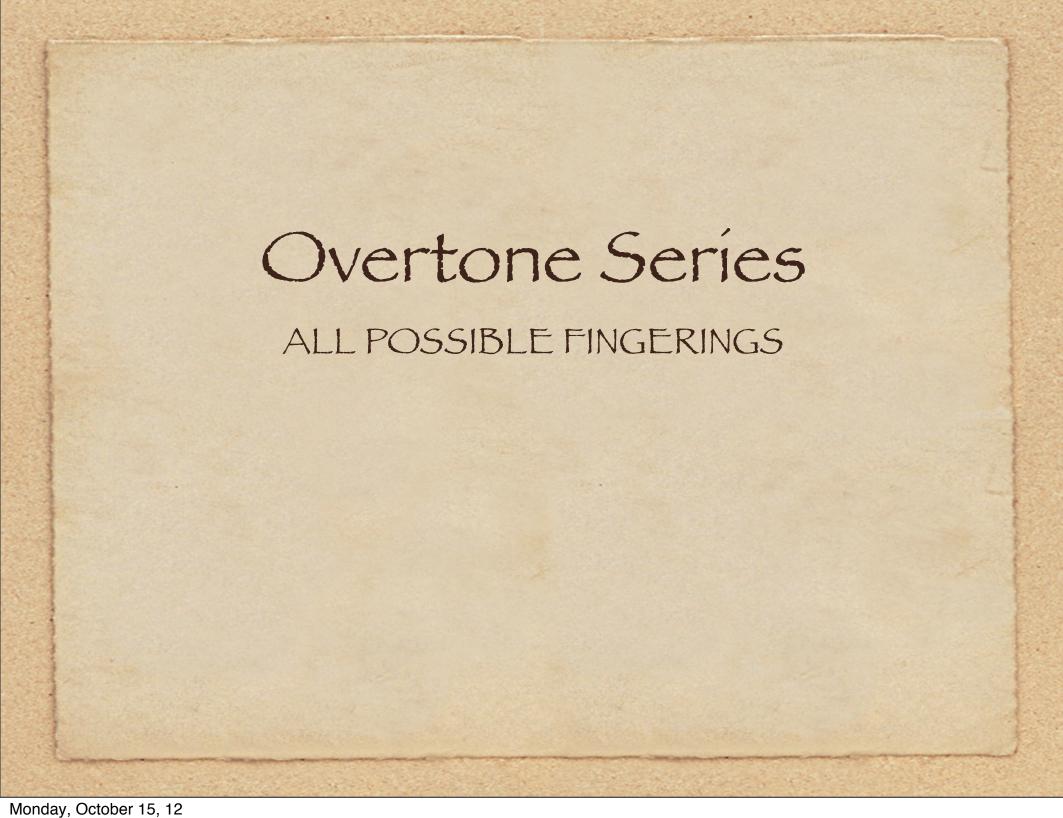
Gb Series (123)



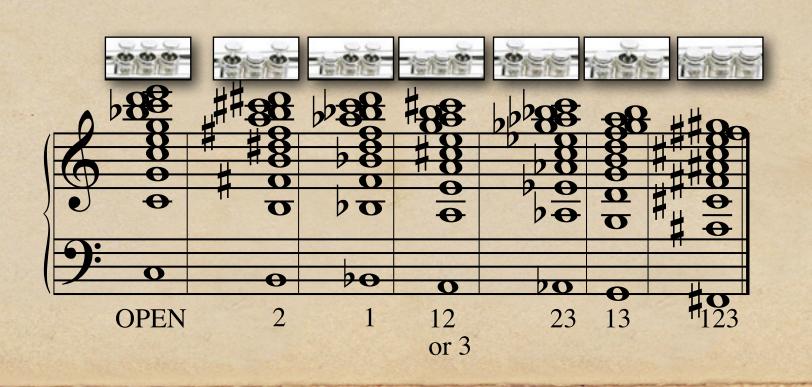
### Overtone Series Pitch Tendencies (valves)



\* Can vary depending on the manufacturer.



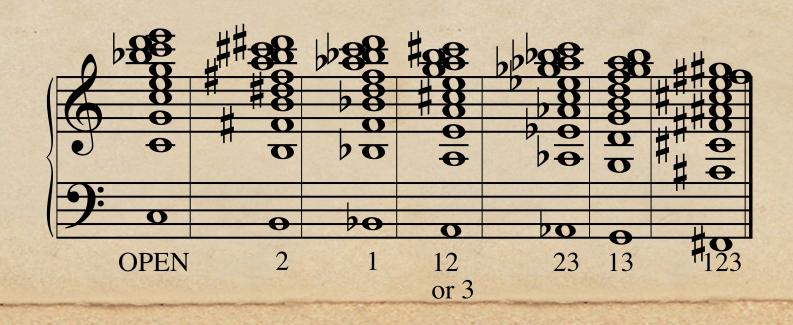
Trumpet



Trumpet

• Check for given note NONE



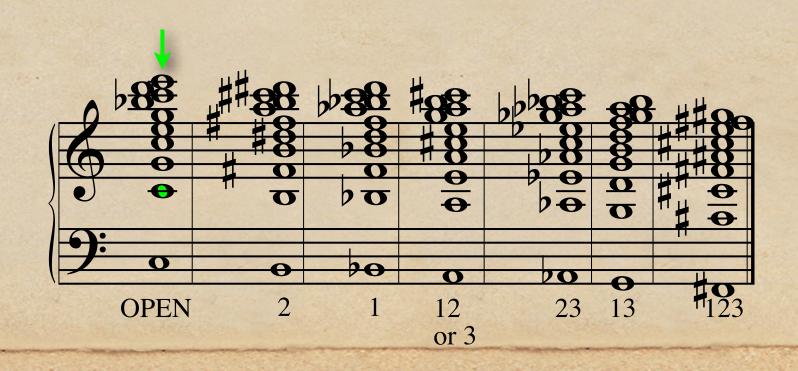


Trumpet

• Check for given note NONE NONE

Think down Major 3rd, check for series

**OPEN** 



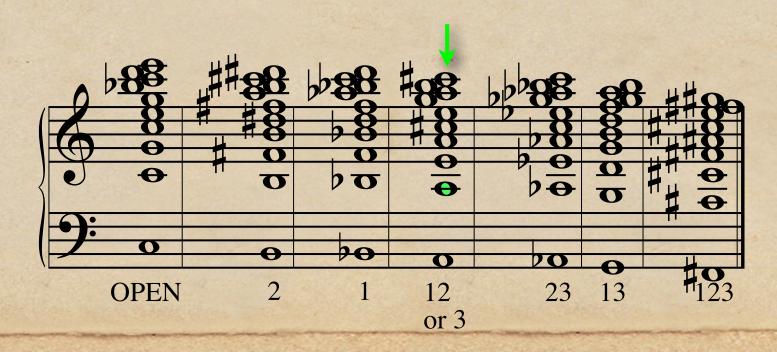
Trumpet

• Check for given note NONE PERFECT 5TH

◆ Think down Major 3rd, check for series OPEN

Think down Perfect 5th, check for series

12 or 3



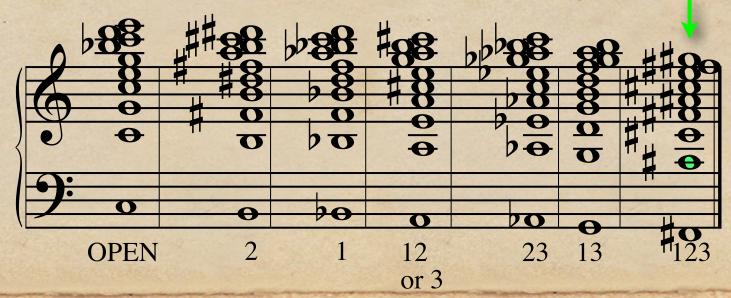
Trumpet

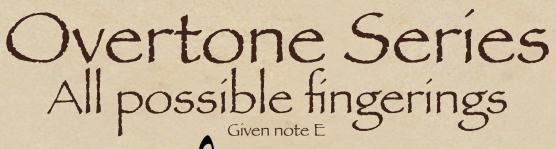
• Check for given note NONE NONE THE

◆ Think down Major 3rd, check for series OPEN

Think down Perfect 5th, check for series
 12 or 3

Think down minor 7th, check for series
 123

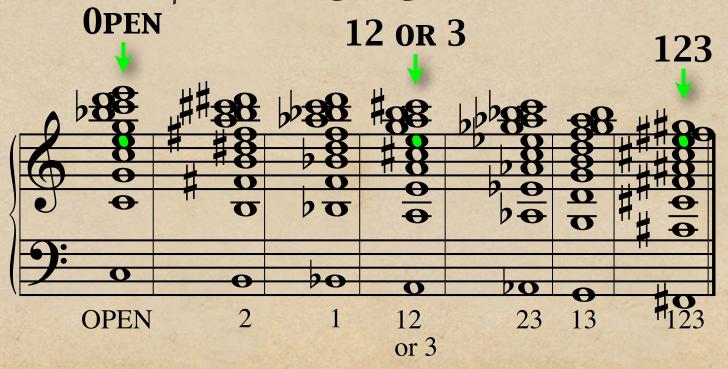




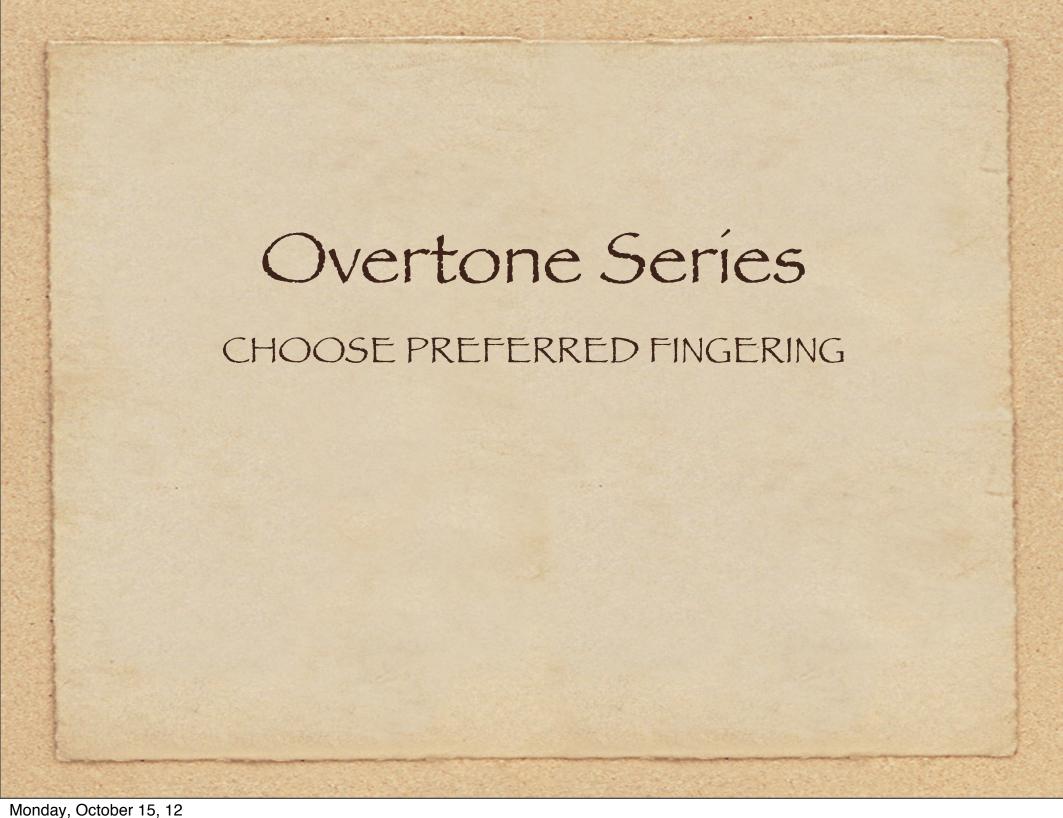
Trumpet



There are 4 possible fingerings:







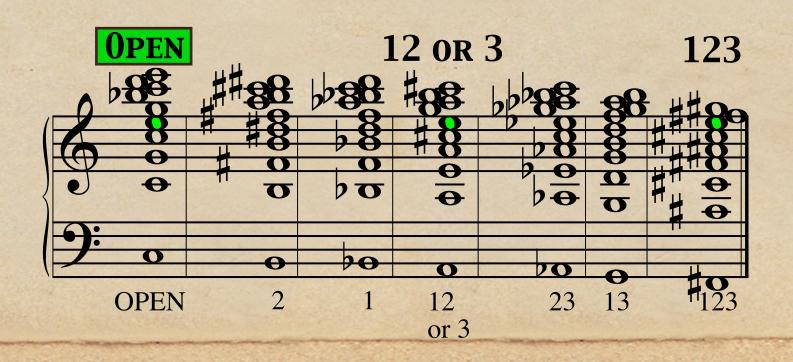
#### Overtone Series Choosing preferred fingering

- Least number of valves,
- Unless it involves 3rd valve,
- Or is the 7th partial

Overtone Series
Choosing preferred fingering
Trumpet

Trumpet

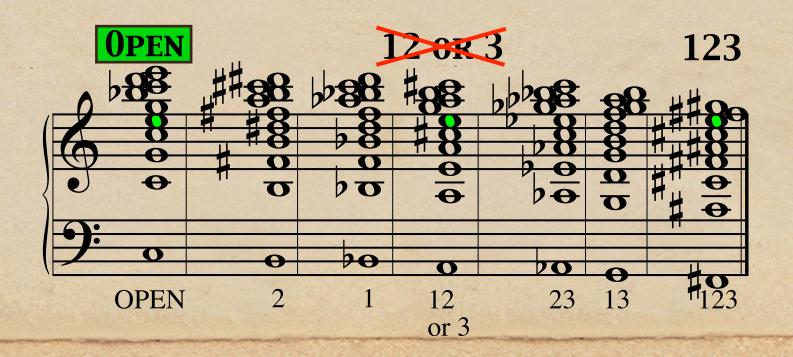
Least number of valves



Overtone Series
Choosing preferred fingering
Given note E

Least number of valves,

Unless it involves 3rd valve

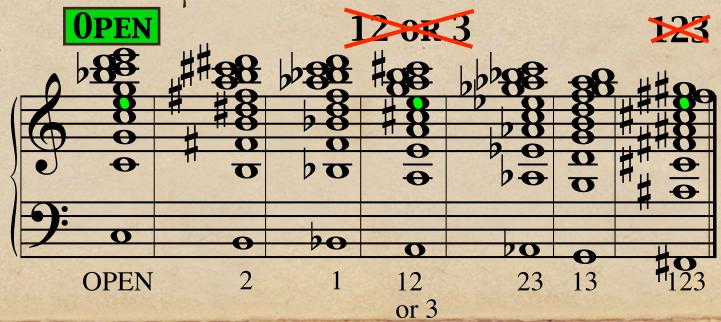


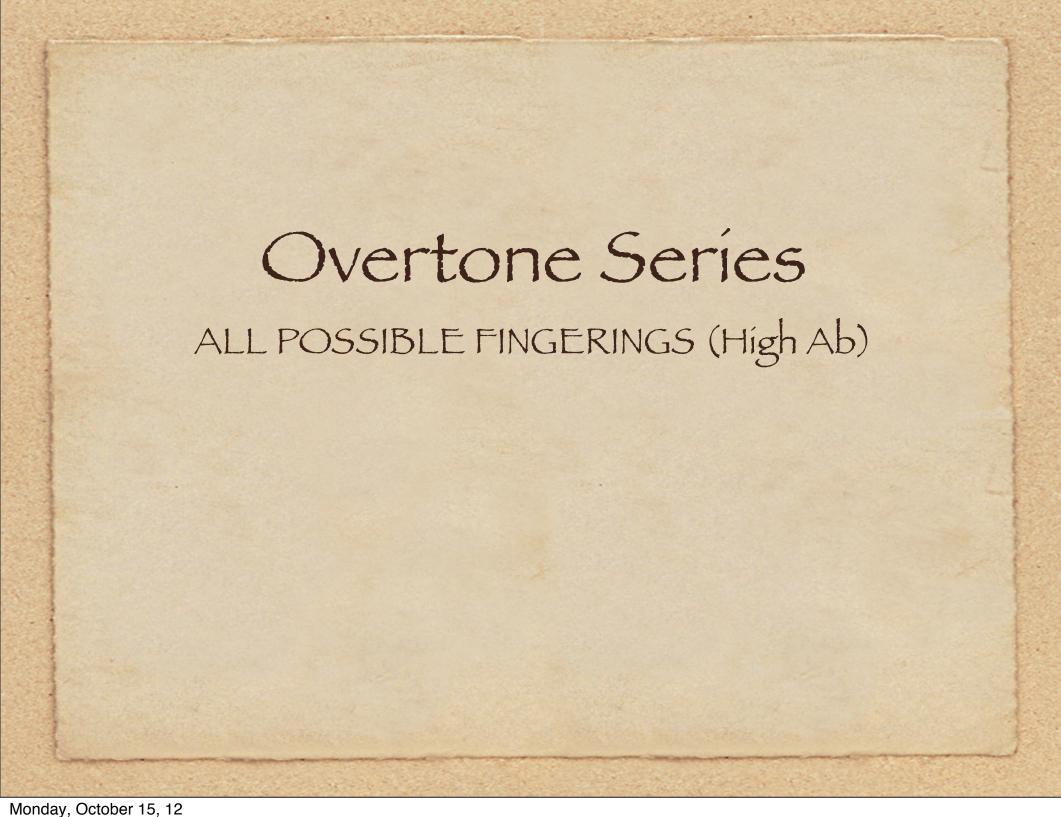


Least number of valves,

Unless it involves 3rd valve,

Or is the 7th partial



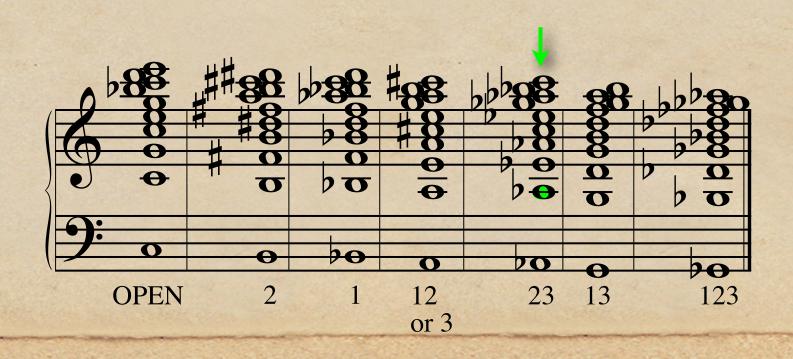


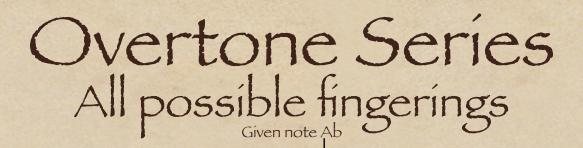
# Overtone Series All possible fingerings Given note Ab

Trumpet

• Check for given note





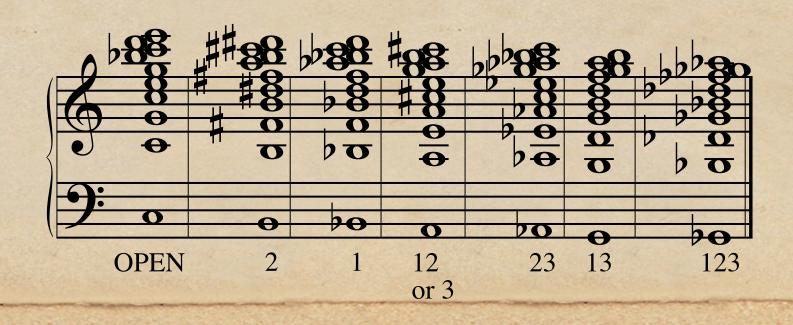


8 MAJOR 3RD

Trumpet

• Check for given note 23

Think down Major 3rd, check for series NONE



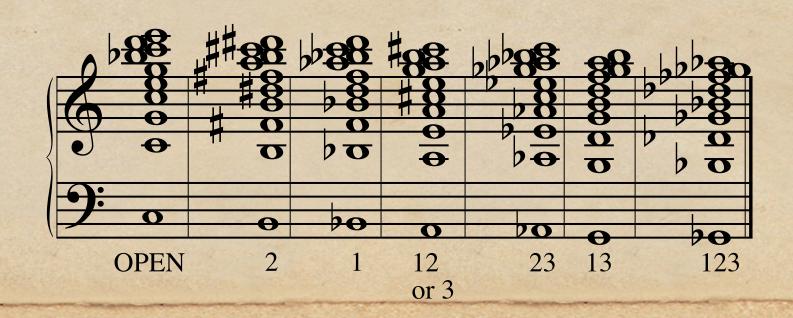
Overtone Series
All possible fingerings
Given note Ab

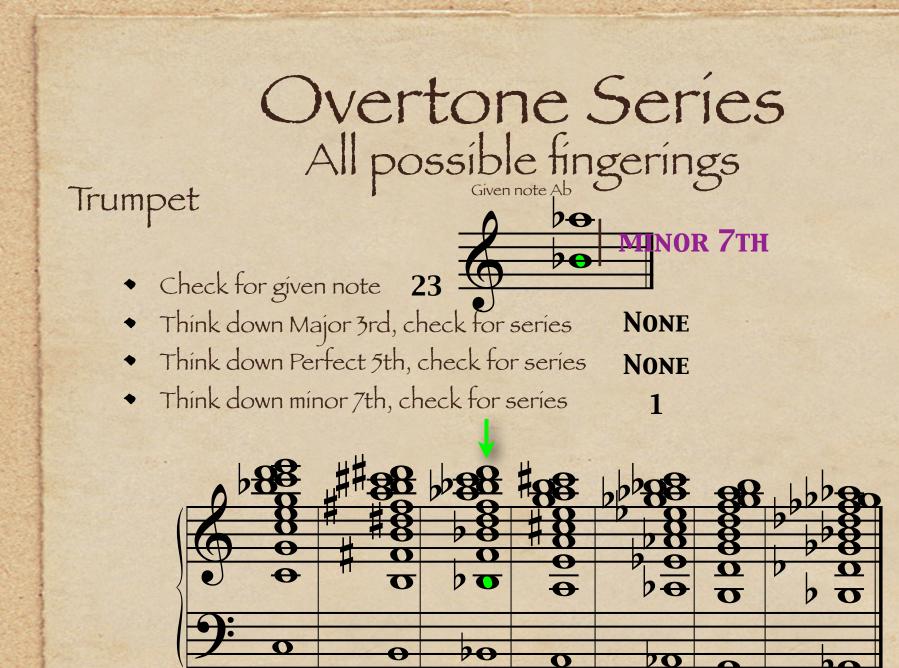
Trumpet

• Check for given note 23

• Think down Major 3rd, check for series NONE

• Think down Perfect 5th, check for series NONE





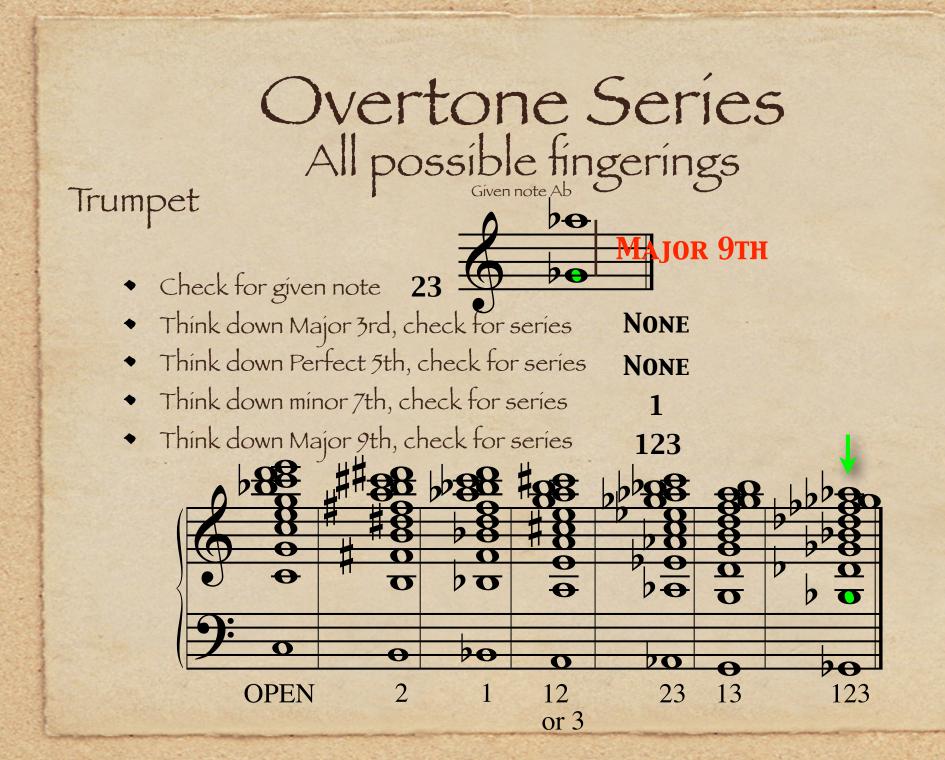
12

or 3

13

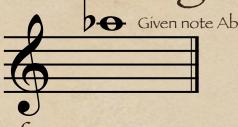
123

**OPEN** 

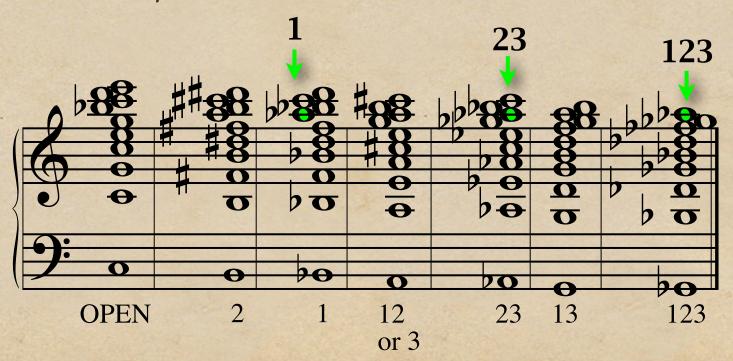


# Overtone Series All possible fingerings Overtone Series All possible fingerings Over note Ab

Trumpet



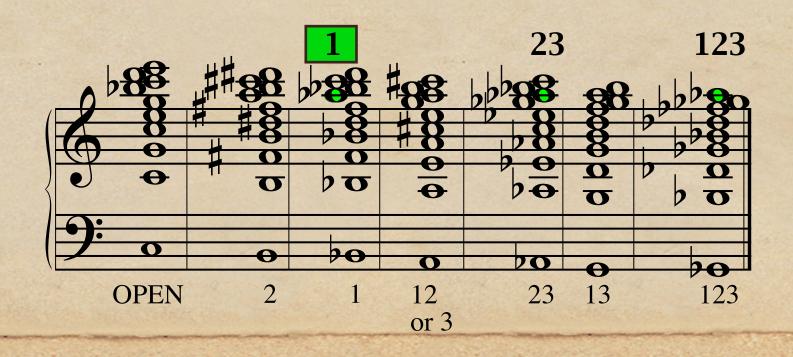
• There are 3 possible fingerings:



Overtone Series
Choosing preferred fingering

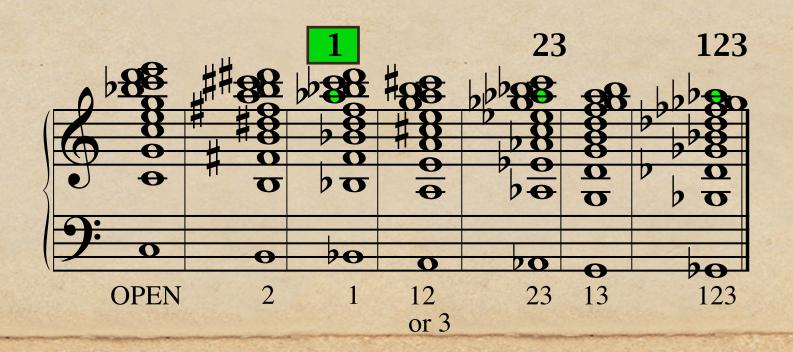
Given note Ab

Least number of valves



Overtone Series
Choosing preferred fingering
Given note Ab

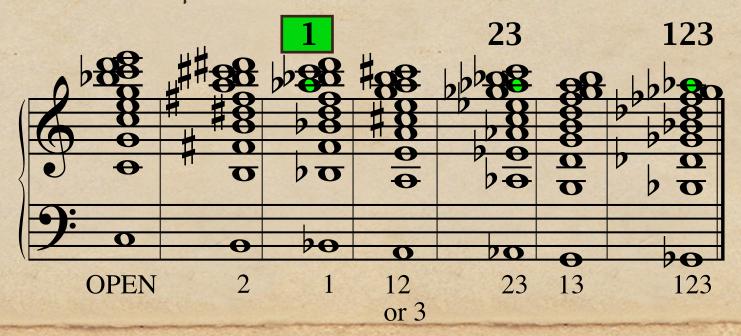
- Least number of valves
- Unless it involves 3rd valve



Overtone Series
Choosing preferred fingering

De Given note Ab

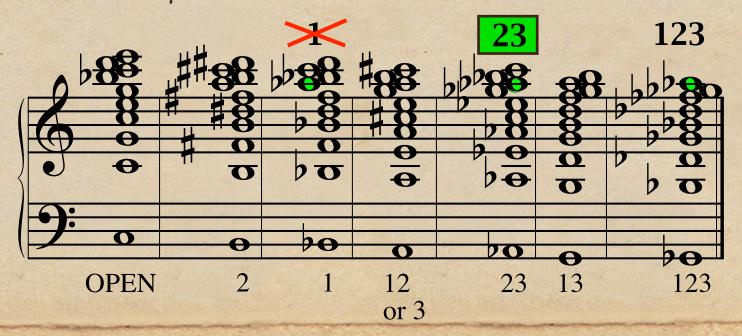
- Least number of valves
- Unless it involves 3rd valve
- Or is the 7th partial

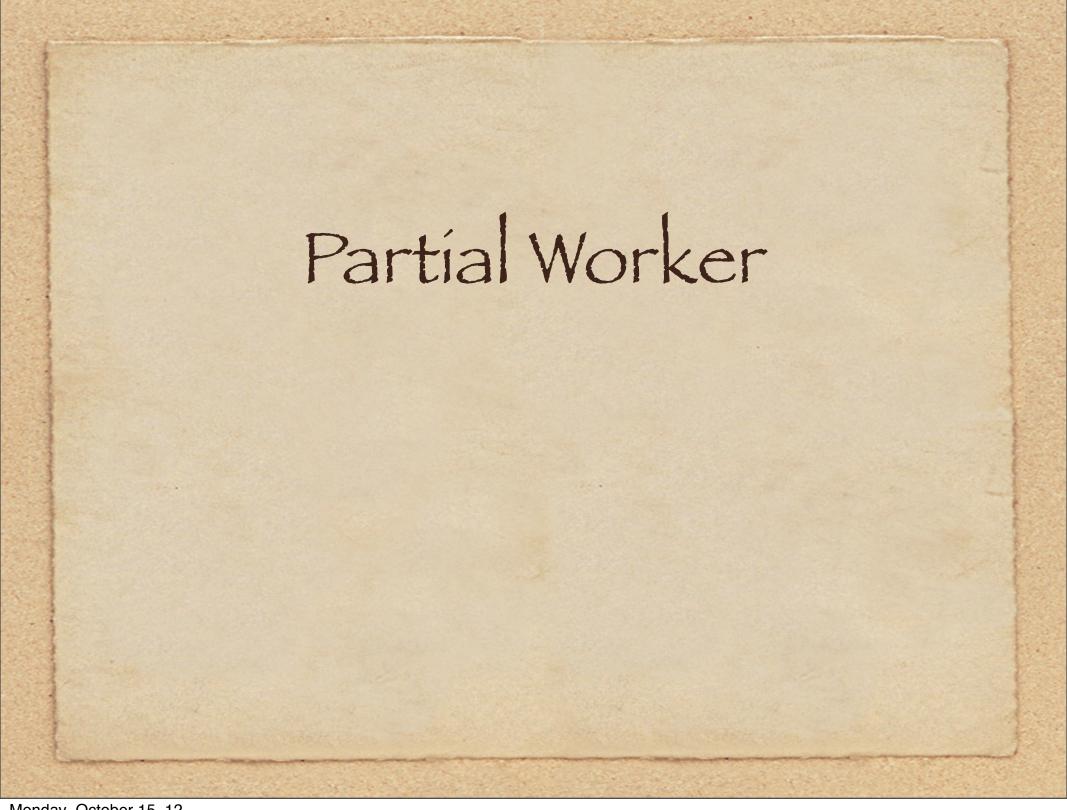


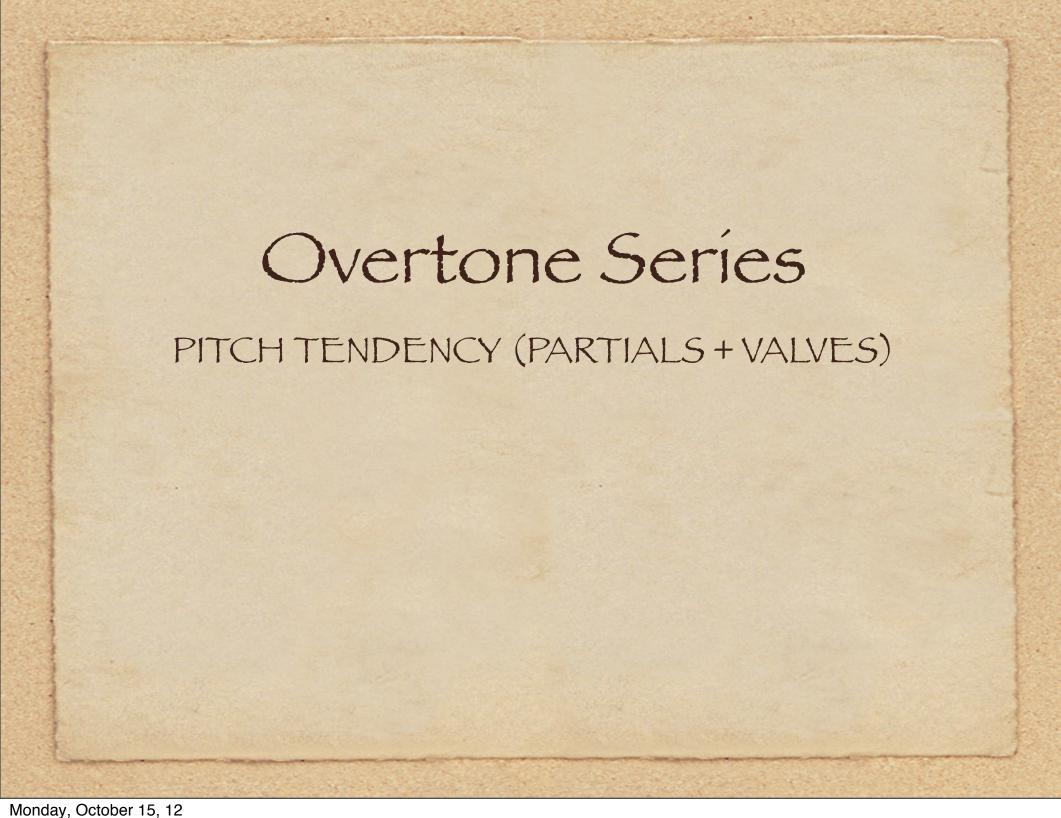
Overtone Series
Choosing preferred fingering

Given note Ab

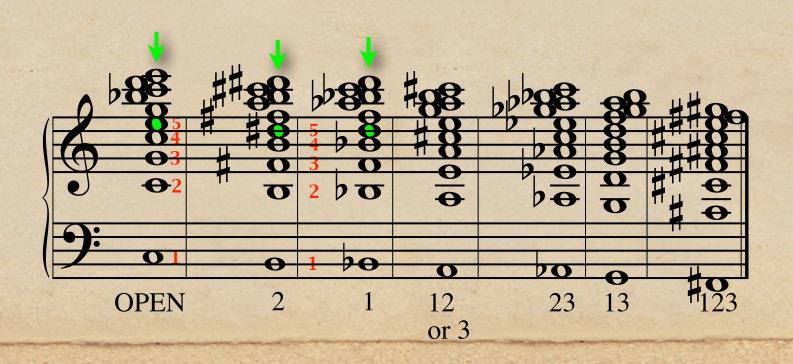
- Least number of valves
- Unless it involves 3rd valve
- Or is the 7th partial

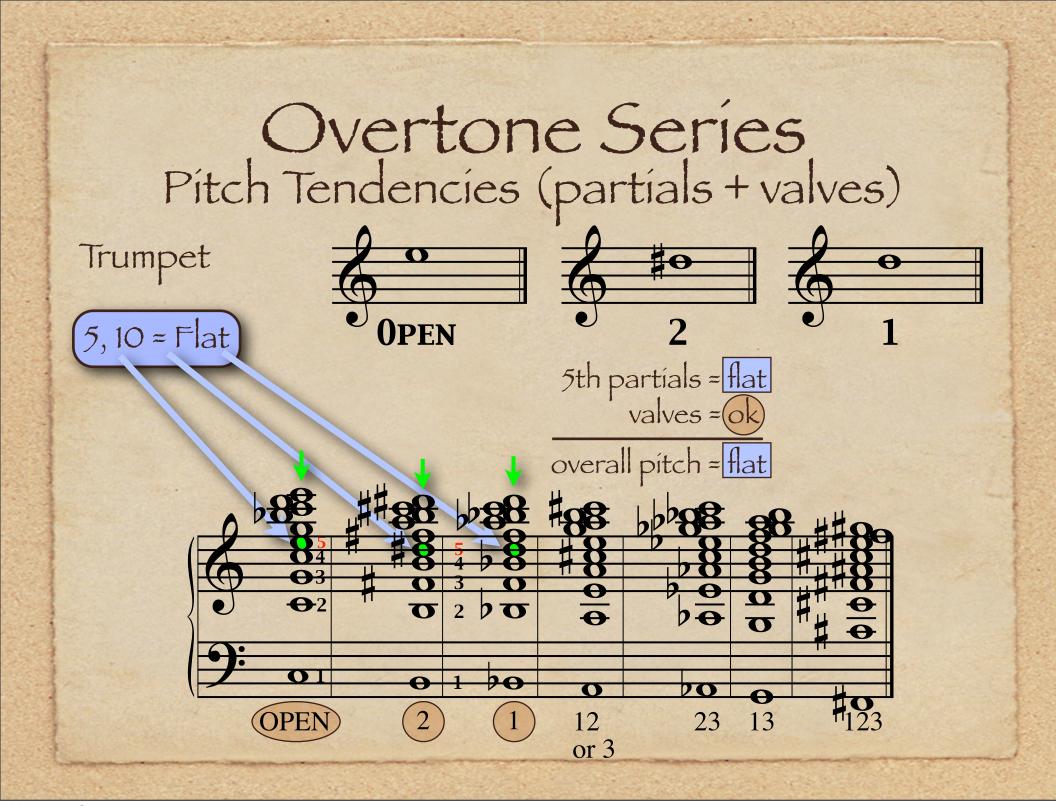




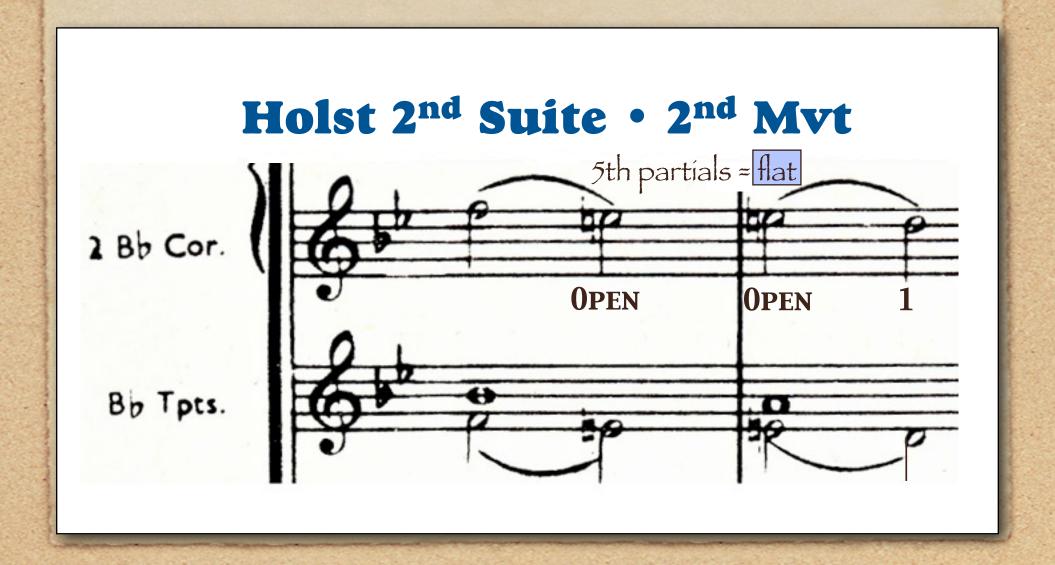


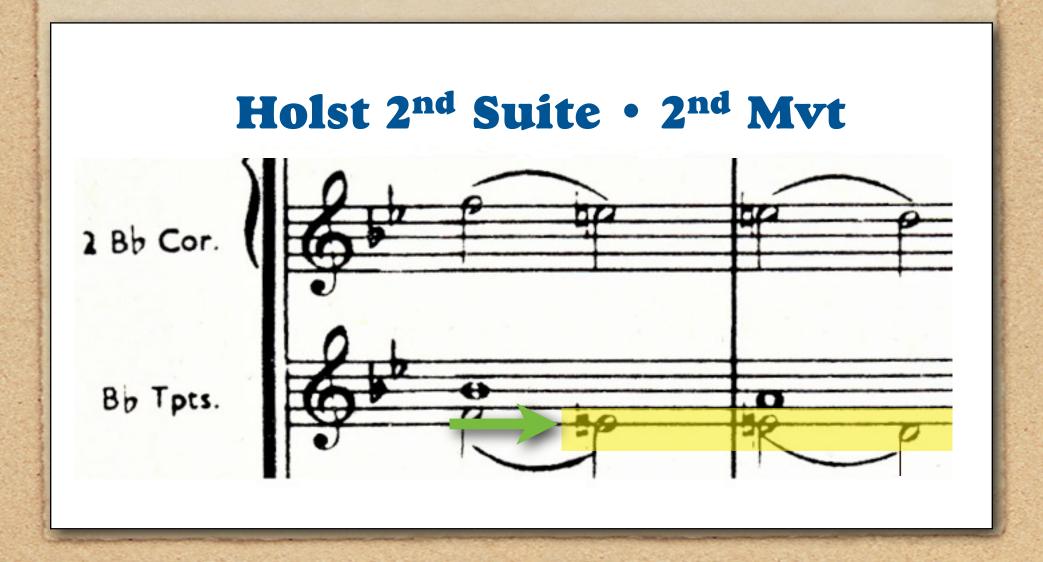


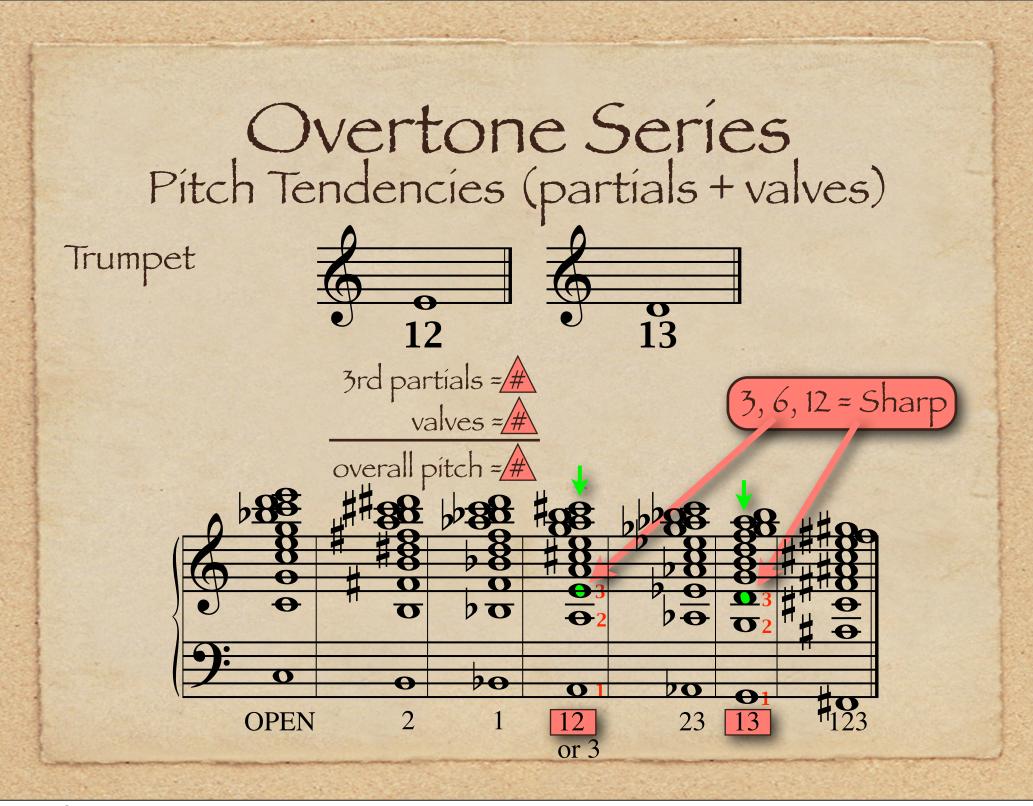


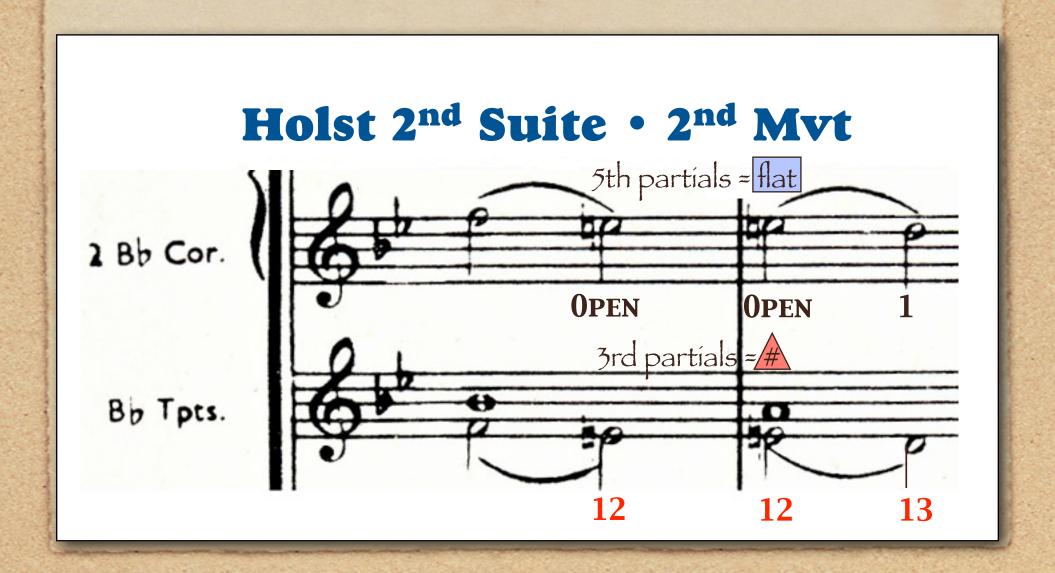




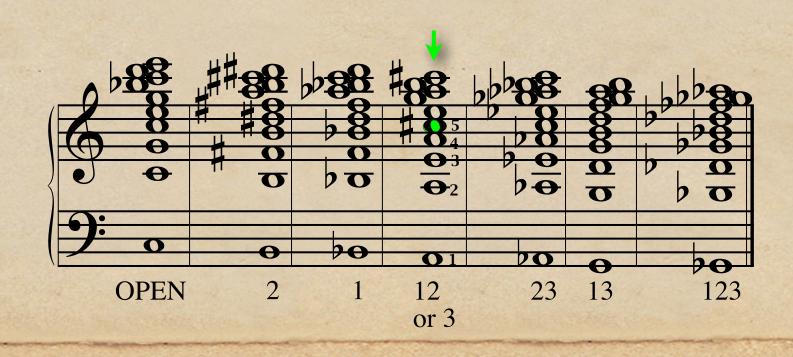


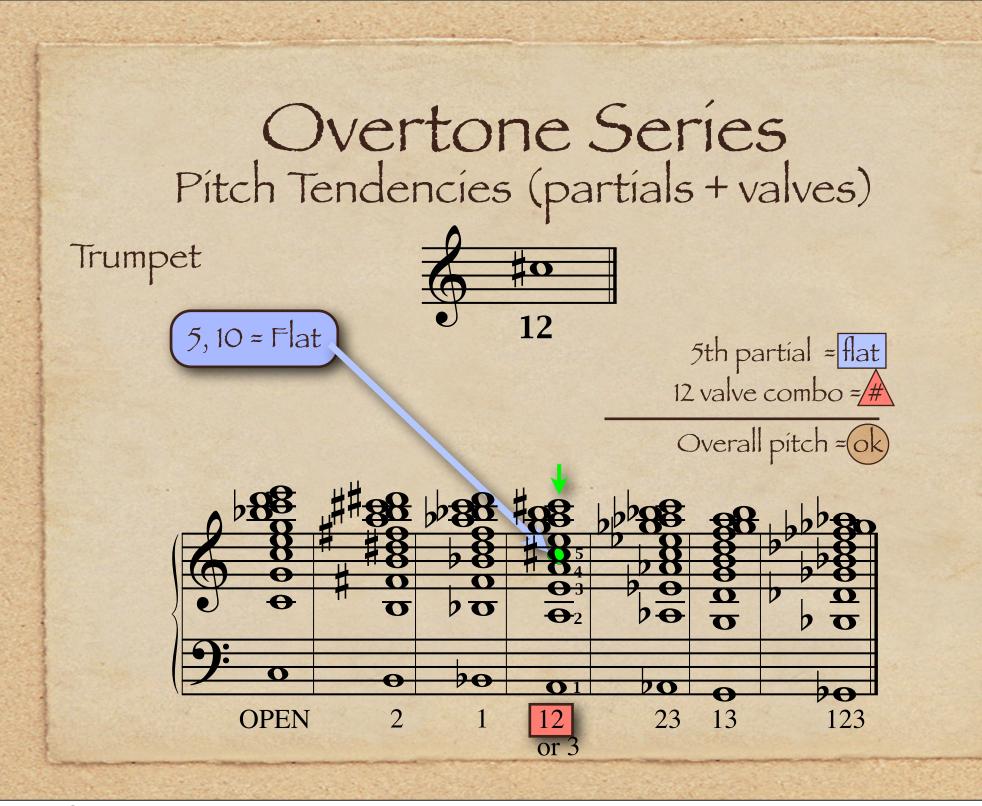








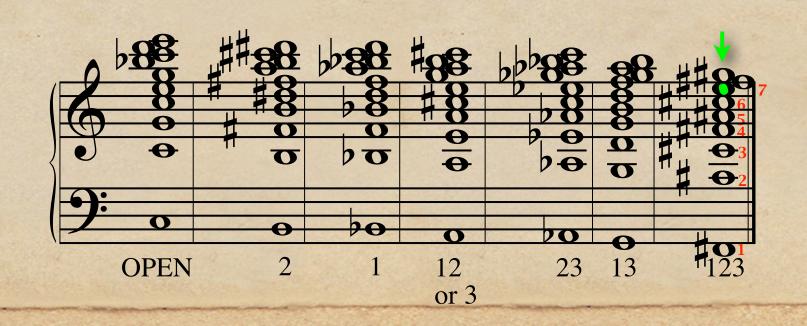




Trumpet



7th Partial Usage

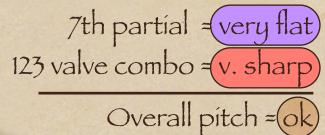


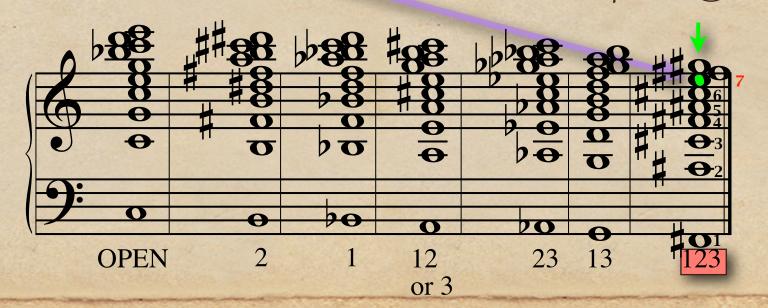
Trumpet

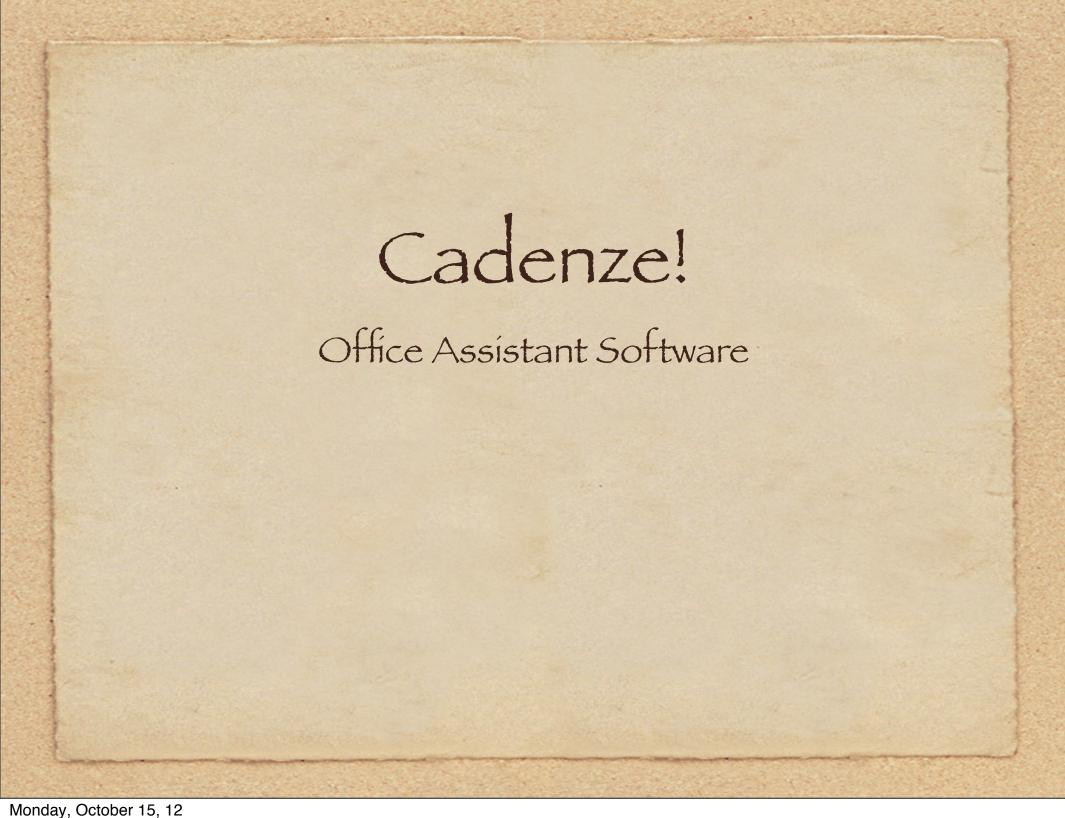


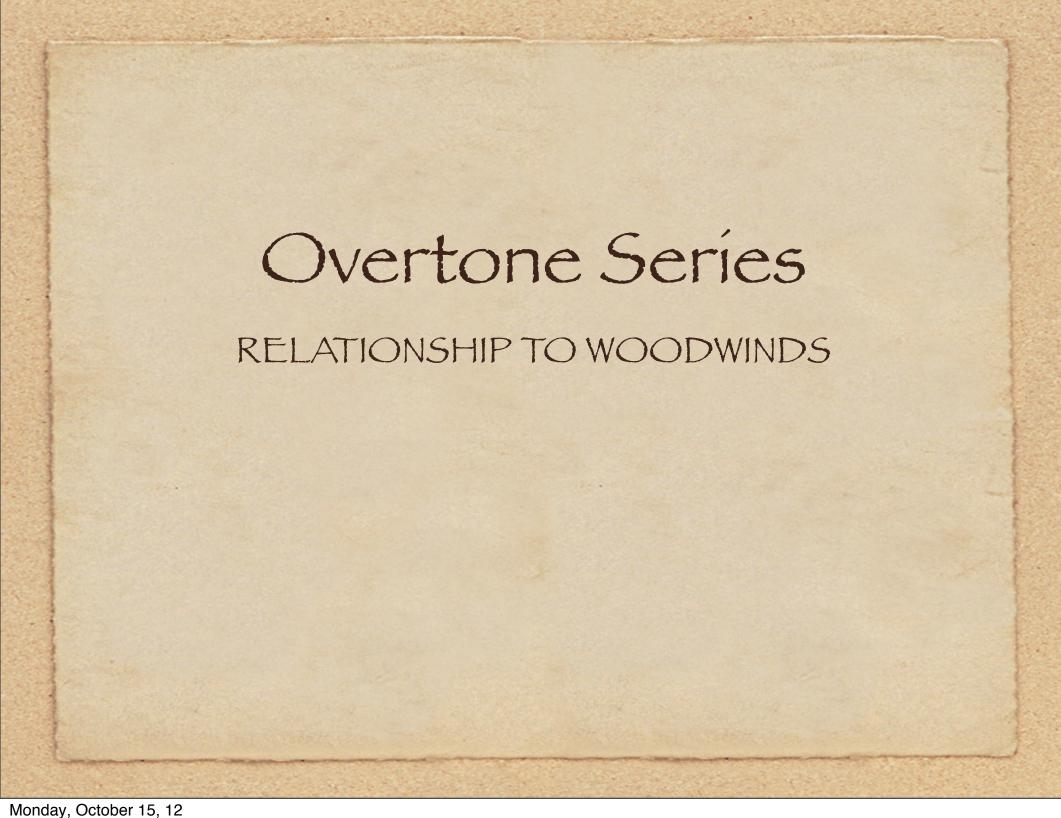
7th Partial Usage

7, 14 = Very Flat



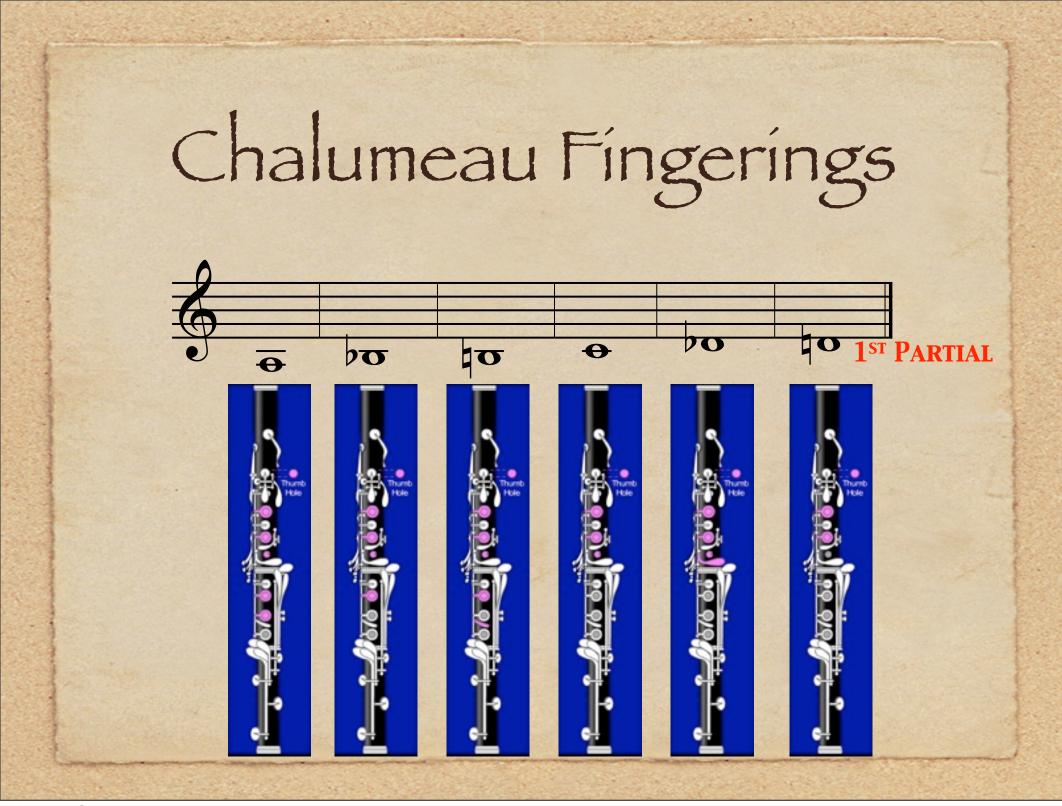


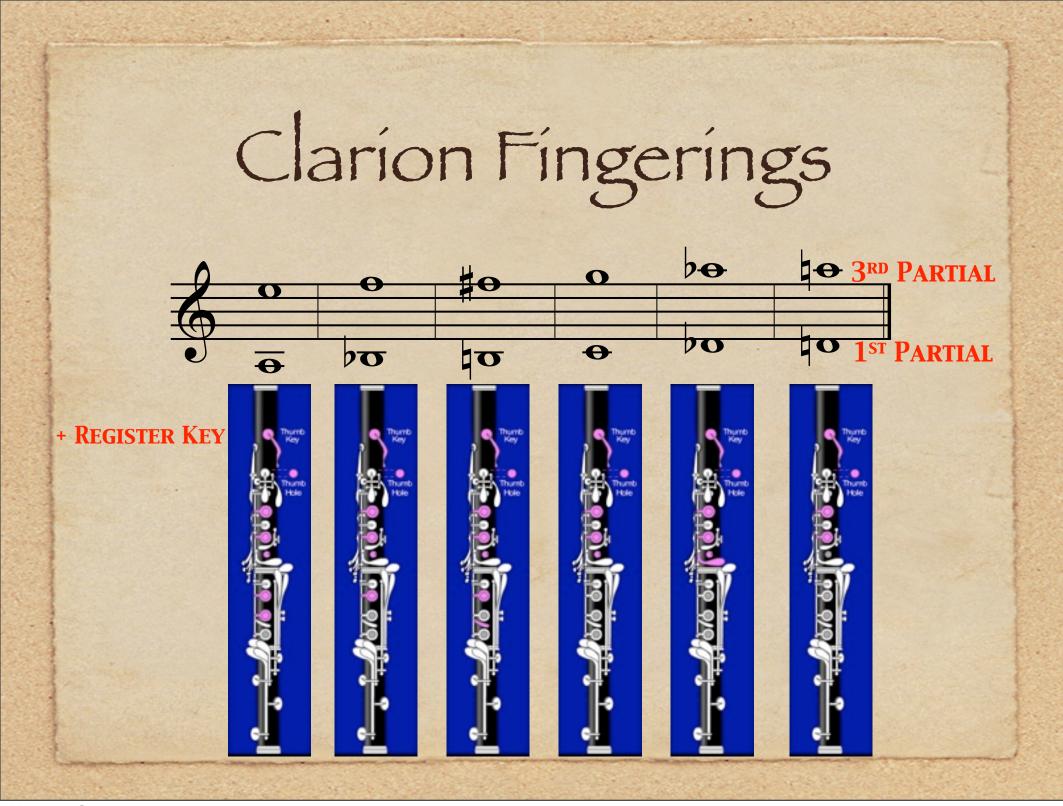


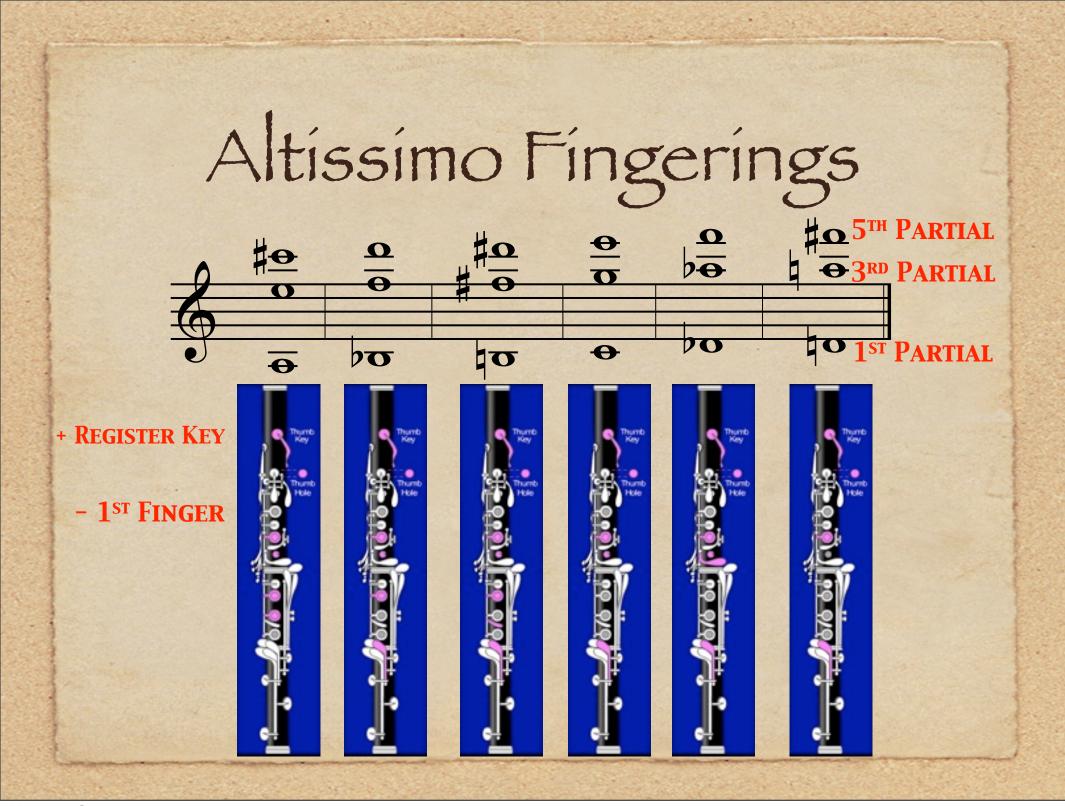


### Woodwind Fingerings

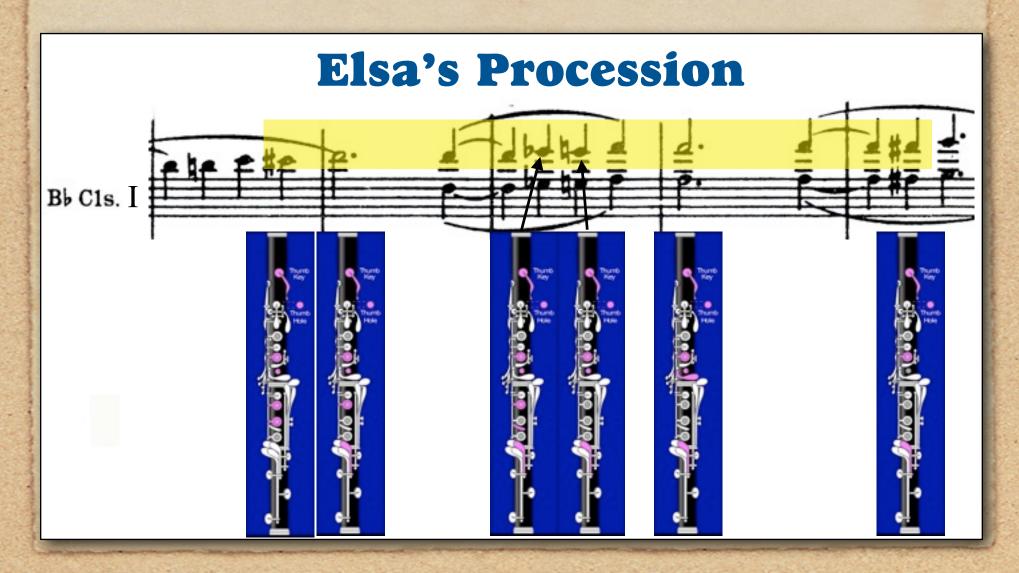


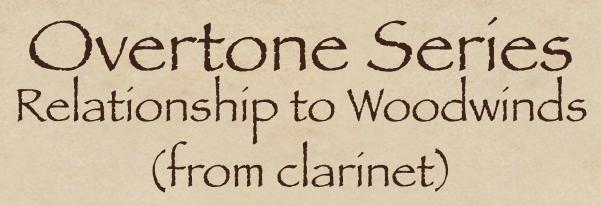


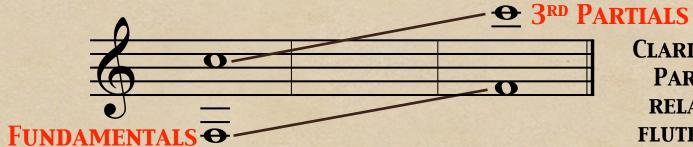




### Woodwind Fingerings





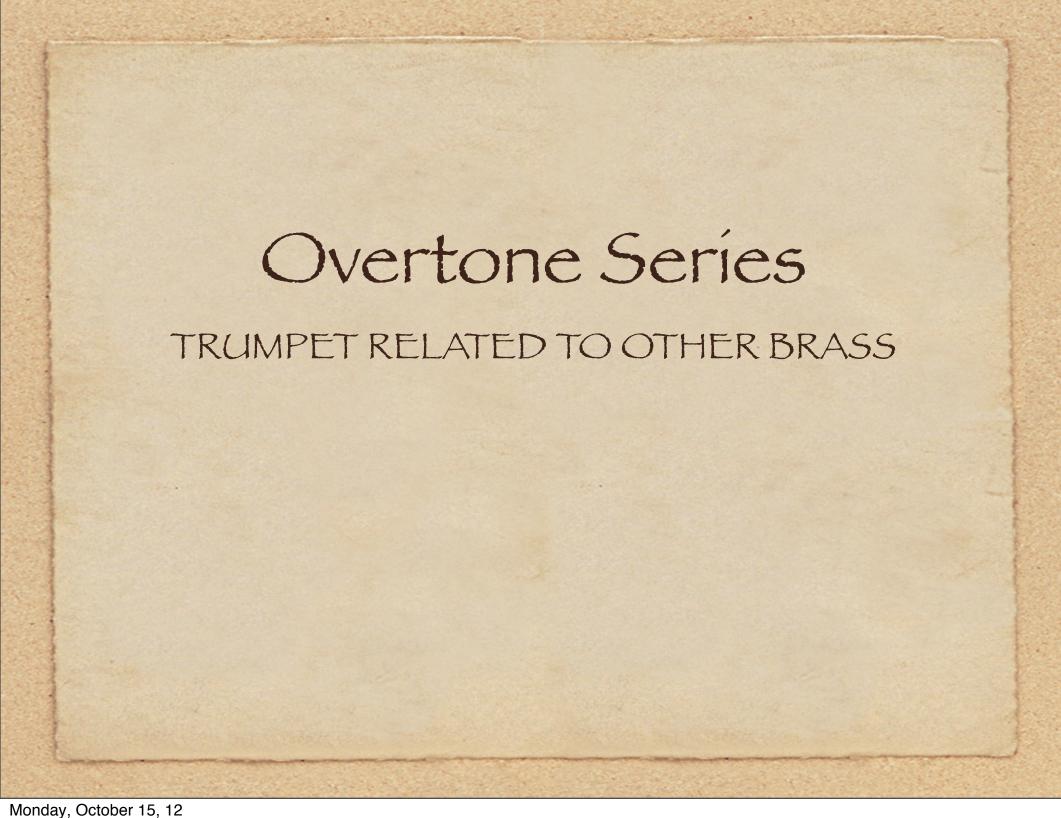


CLARINET
FUNDAMENTALS
RELATE TO
BASSOON
FINGERINGS

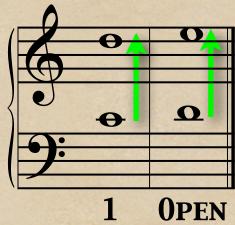




CLARINET 3<sup>RD</sup>
PARTIALS
RELATE TO
FLUTE, OBOE
AND SAX
FINGERINGS

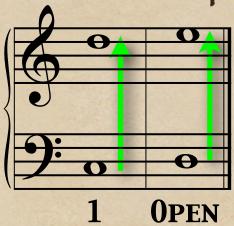


#### Overtone Series B.C. Baritone to Trumpet



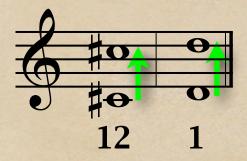
Go up Major 9th, then think trumpet fingerings

### Overtone Series Tuba to Trumpet



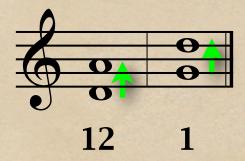
Go up two Octaves + Major 2nd, then think trumpet fingerings

#### Overtone Series Horn (F side) to Trumpet



Go up Octave, then think trumpet fingerings

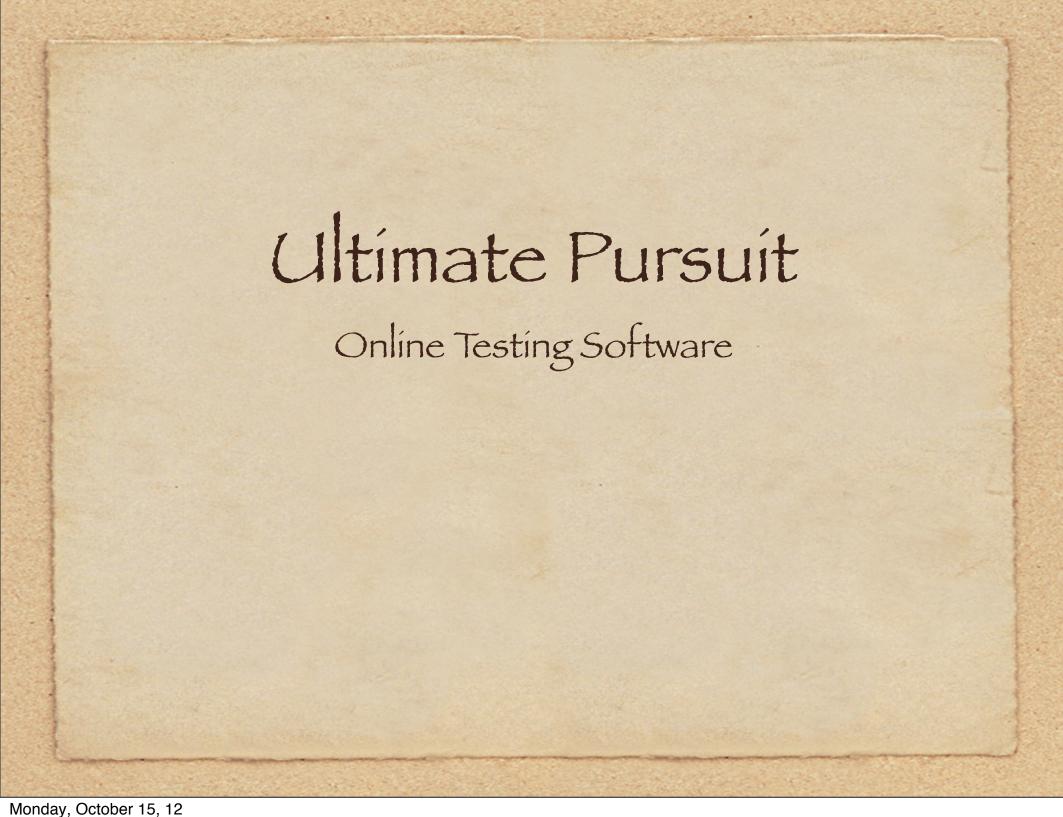
#### Overtone Series Horn (Bb side) to Trumpet



Go up perfect 5th, then think trumpet fingerings

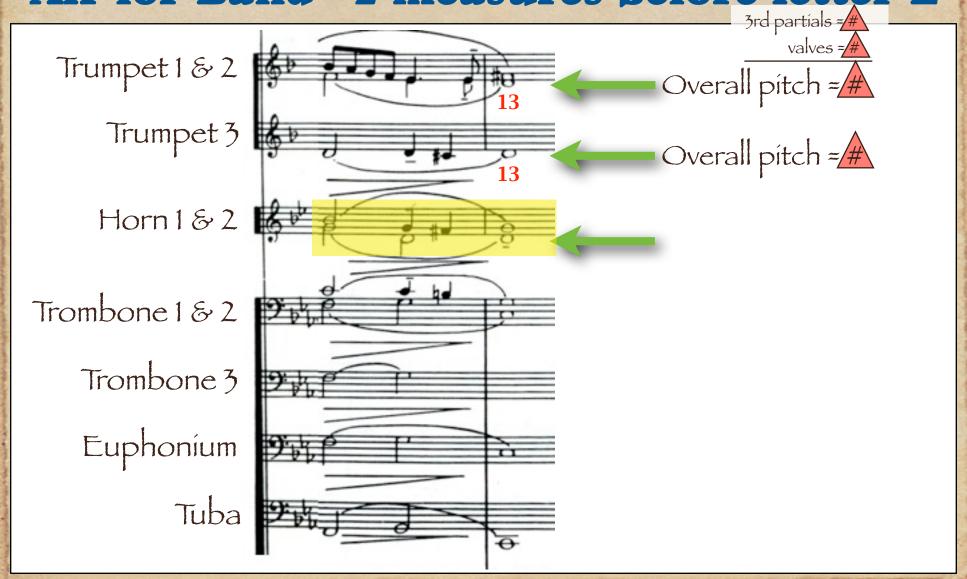
# Overtone Series Trombone & Trumpet Relationship





#### Brass Pitch Problems

Air for Band - 2 measures before letter E



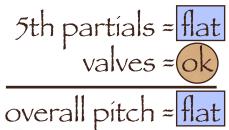
Horn (F side) to Trumpet

Go up octave, then think trumpet fingering

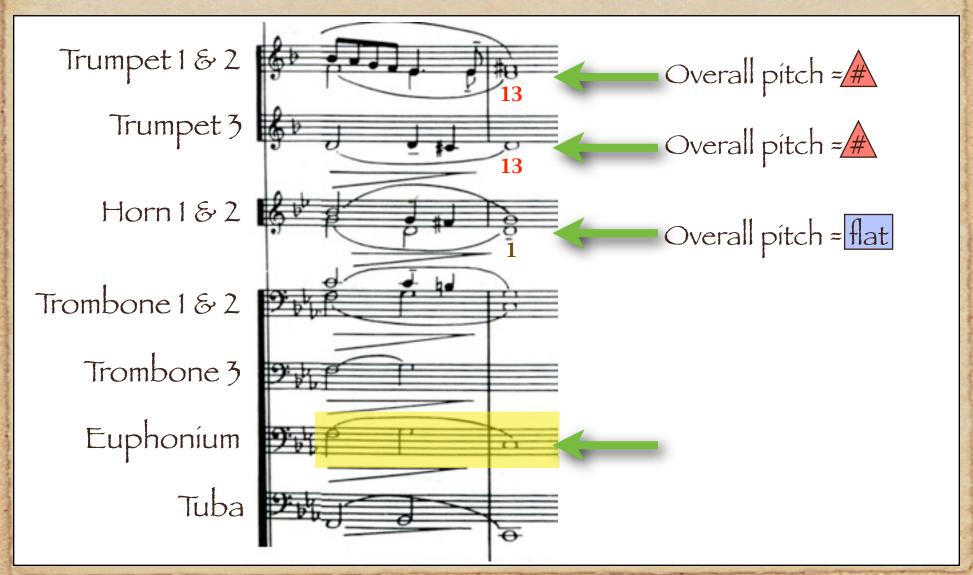


Horn (F side) to Trumpet

Go up octave, then think trumpet fingering

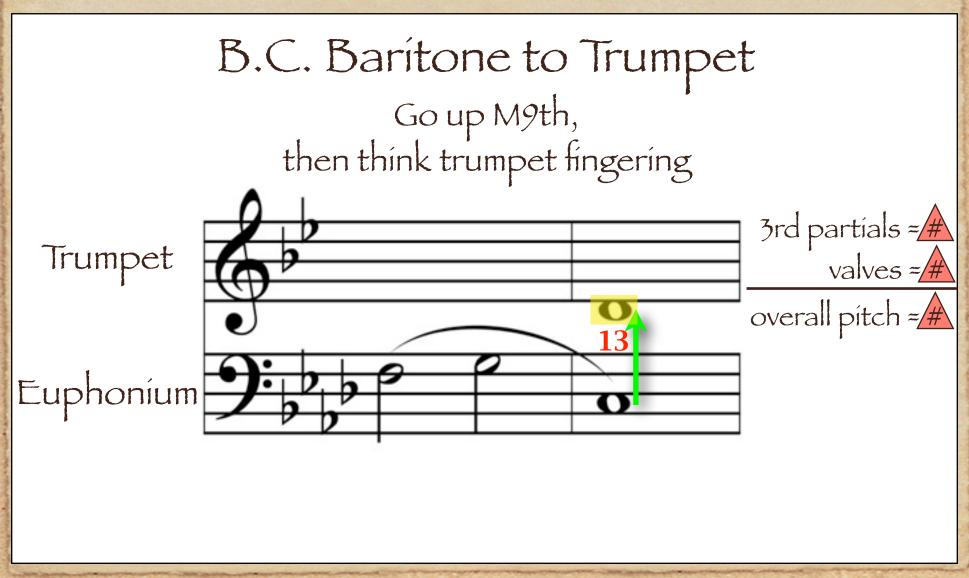


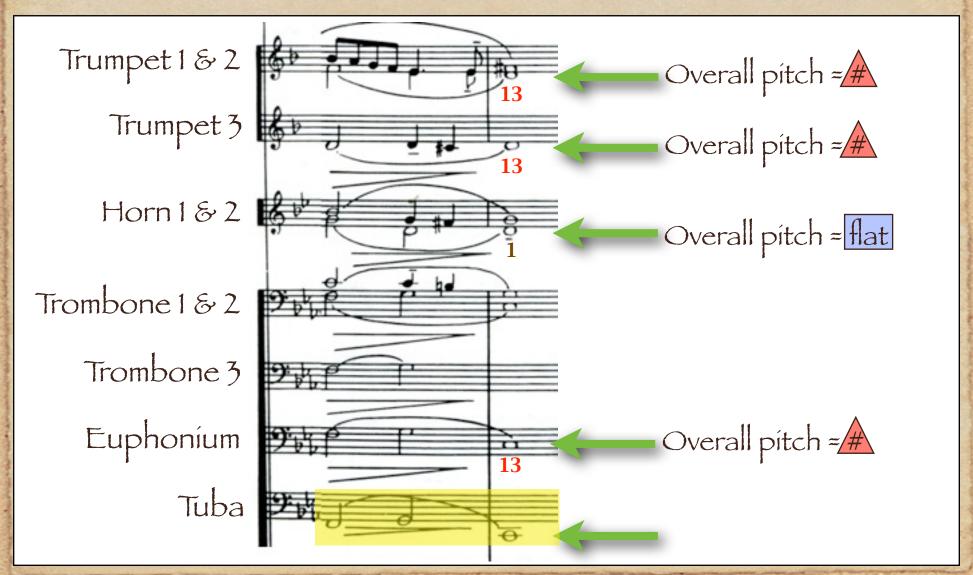




B.C. Baritone to Trumpet Go up M9th, then think trumpet fingering



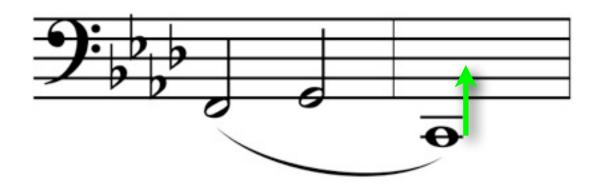




Tuba to Trumpet

Go up two octaves + M2nd, then think trumpet fingering

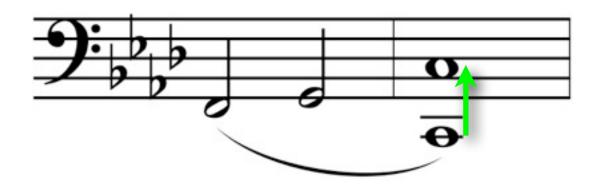
Tuba

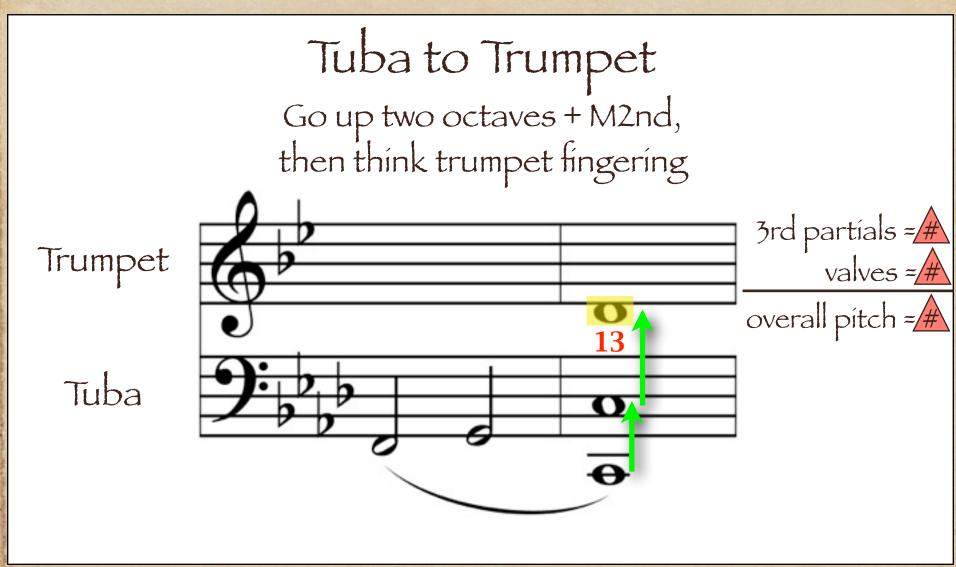


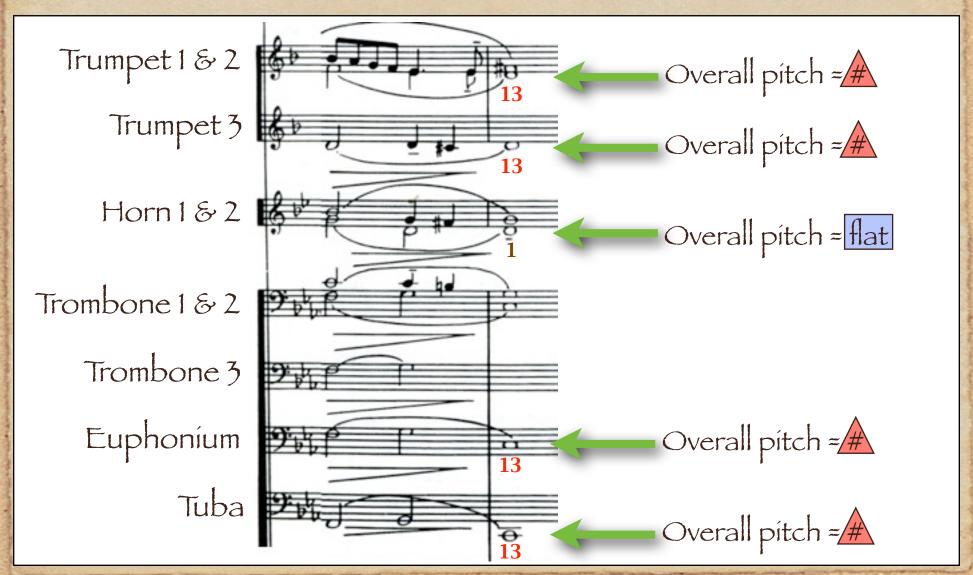
Tuba to Trumpet

Go up two octaves + M2nd, then think trumpet fingering

Tuba







#### Partial to the Winds

The Power of the Overtone Series

Max McKee (maxmckee@bandworld.org)

Scott McKee (scottmckee@bandworld.org)



Get more info at www.bandworld.org