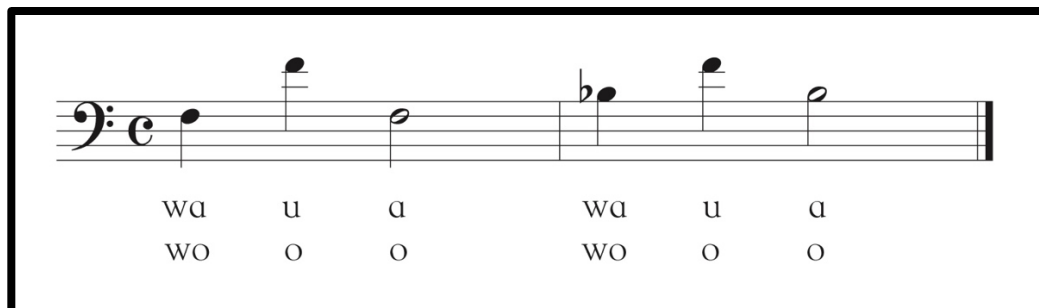


Appendix 4: DVD Replacement Contents

These sample explorations were made in the year of publication (2013) with undergraduate students at various levels of development. While they model the acoustic phenomena being discussed reasonably well, neither they nor the author would claim that they represent singers whose training is completed. The author is very grateful for their willingness to serve as models for educational purposes. Explanations for the exercises can be found in chapter 13, p. 80 of Practical Vocal Acoustics.

Exploring Vowel Turning

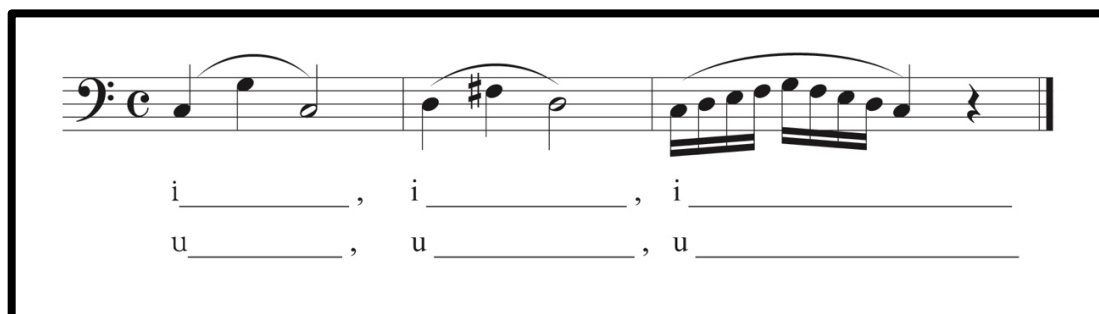
A subsequent youtube linkage was disabled by changes in Youtube's protocol. This document is the current location for those exercise links. It contains some additional examples and may evolve further over time.



Wa u a Wa u a
Wo o o Wo o o

Figure 33: Open and close vowels and open and close timbre across large leaps.

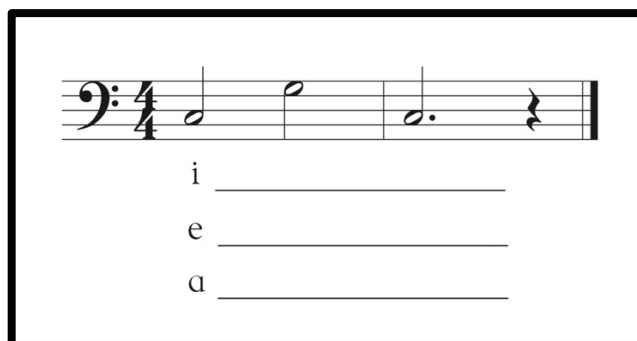
1st Yr Baritone: <https://www.youtube.com/watch?v=7ImXUPzRlqg>



i _____, i _____, i _____
u _____, u _____, u _____

Figure 34: Exploration of turning over, first by leap, then stepwise.

1st Year Baritone: <https://www.youtube.com/watch?v=jNX17PFt1t4>



i _____
e _____
a _____

Figure 35: Comparing the F1/H2 crossing of /i/ with the F1/H3 crossings of /e/ and the F1/H4 crossing of /a/.

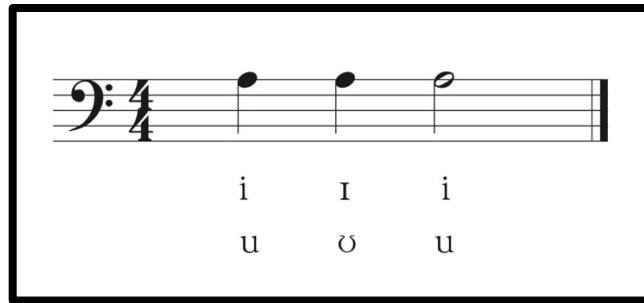


Figure 36: Exploration of close and open timbres. through vowel changes on the same pitch.

3rd Yr Baritone: <https://www.youtube.com/watch?v=CbGfKVib860>

4th Yr Baritone: <https://www.youtube.com/watch?v=FG1EtGsQm2E>

- “He hit me.”
- “You would too.”
- /ɪ/ → /i/ → /I/ “Tim eats fish.”
- /i/ → /e/ → /i/ “He ate meat.”
- /u/ → /o/ → /u/ “You know who.”
- /ʊ/ → /u/ → /ʊ/ “Would you look?”
- /e/ → /i/ → /e/ “They eat late.”
- /o/ → /u/ → /o/ “Though you know.”

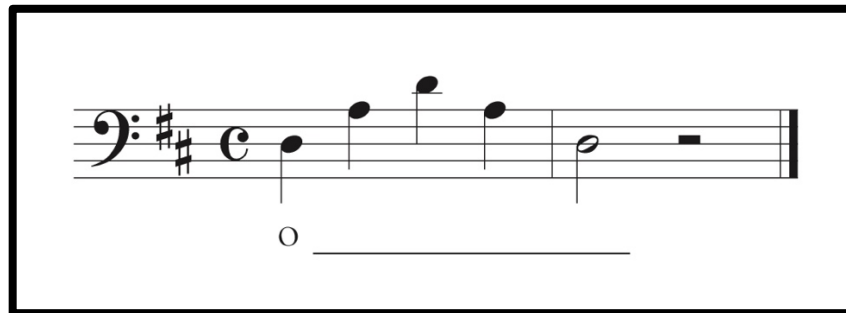


Figure 37: Same vowel across two degrees of closure.

1st Yr Baritone: https://www.youtube.com/watch?v=H_DXJxkw6Ik

3rd Yr Baritone: <https://www.youtube.com/watch?v=iHKbeBnieY4>

3rd Yr Tenor: <https://www.youtube.com/watch?v=AGKQXqTrT8c>

4th Yr Baritone: <https://youtu.be/vePONTzIR4c>

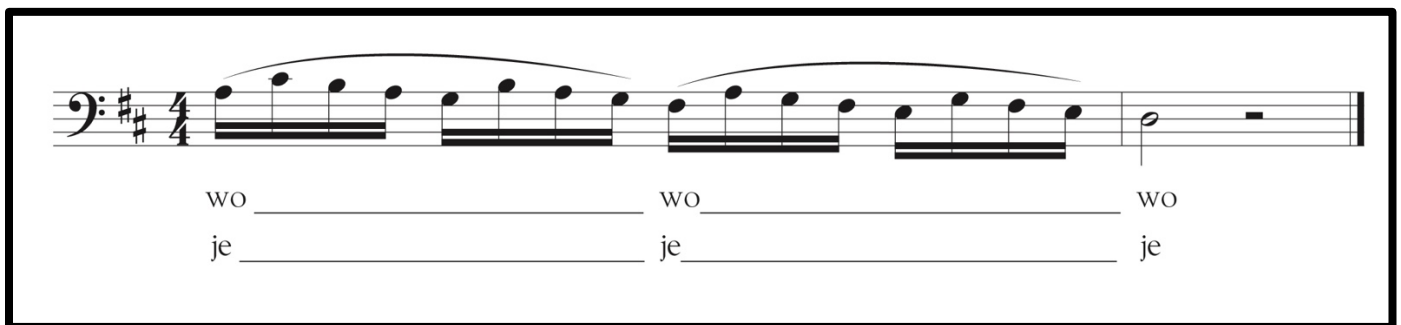


Figure 38: Use of agility across the turn of the voice discourages tube shape change.

1st Yr Baritone: <https://www.youtube.com/watch?v=45nQcMxPKWM>

3rd Yr Baritone: <https://www.youtube.com/watch?v=y8la5hQtNnE>

4th Yr Baritone: https://www.youtube.com/watch?v=jK1F_M6WLLY

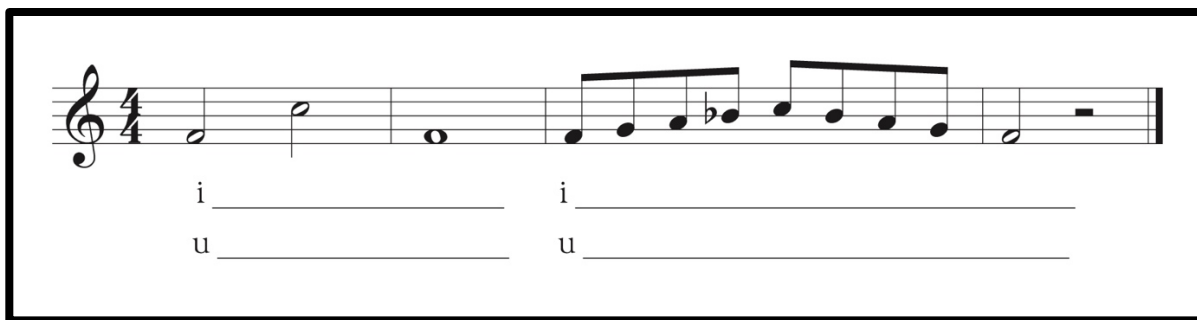


Figure 43. Exploring F1/H1 Tracking #3.

1st Yr Soprano: <https://www.youtube.com/watch?v=-1Skjcvq9fc>

4th Yr. Soprano: <https://www.youtube.com/watch?v=fIzyozJT7Hc>

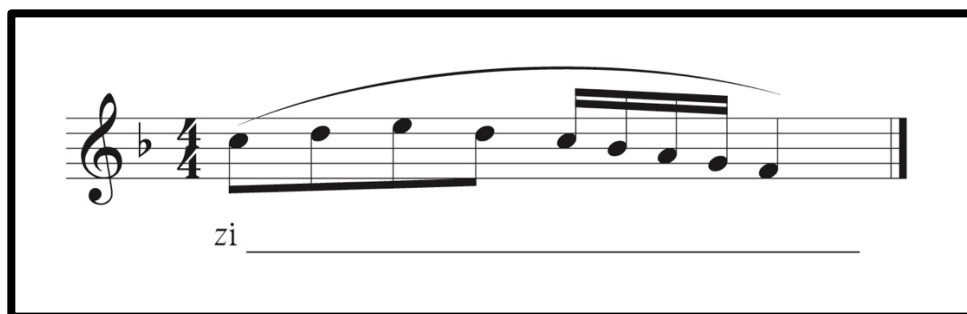


Figure 44. Exploring F1/H1 Tracking #4.

1st Yr Soprano: <https://www.youtube.com/watch?v=ijmZYxygoRU>

4th Yr Soprano: <https://www.youtube.com/watch?v=YjBKHC9IGkU>

Advanced Soprano: <https://www.youtube.com/watch?v=Bmvsactoeog>

New Additional Exercises:

For /o/ migration pattern in treble voices
(enters whoop at C5, opens above that to track whoop):

“Though you would you know.”

/o/ → /u/ → /ʊ/ → /u/ → /o/

Ab4 → C5 → Eb5 → C5 → Ab4

“you would-----too.”

/u/ → /ʊ/ → /ʊ/ → /ʊ/ → /u/

C5 → E5 → G5 → E5 → C5

“So-----you-----know.”

/o/ → /o/ → /u/ → /u/ → /o/

F4 → A4 → C5 → A4 → F4

See also: [Singer Samples and Pedagogic Resources](http://www.kenbozeman.com/resources/Singer_Sample_Youtube_Files.pdf)

http://www.kenbozeman.com/resources/Singer_Sample_Youtube_Files.pdf