AMERICAN GUILD OF ORGANISTS

COMMITTEE FOR PROFESSIONAL CERTIFICATION

WEBINAR ON FUGUE (PART 1 OF 2)

MONDAY, MARCH 20, 2023 at 7PM EST

OUTLINE OF THIS WEBINAR

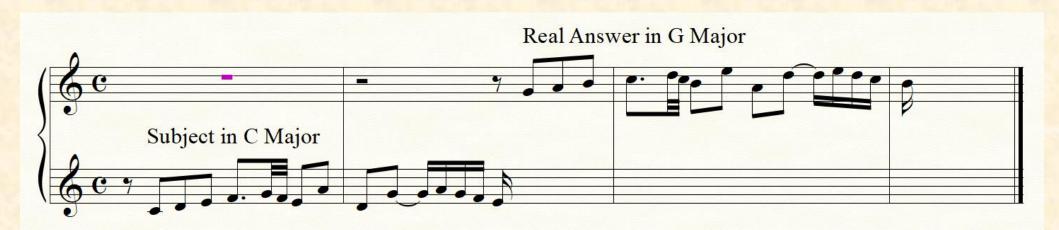
- 1) Subject and answer
- 2) Real answer and tonal answer
- 3) Countersubject
- 4) Fugal exposition
- 5) Sample questions from past exams

Section 1: Subject and Answer

- **Subject:** The melodic line that is stated alone at the beginning of the fugue and is imitated by all remaining voices.
- Answer: The subject stated in the dominant key.

Example: Bach, Fugue in C Major, Well-Tempered Clavier, Book I, BWV 846





Section 2: Real vs. Tonal Answer

• Real Answer: An exact transposition of the subject in the dominant key.

Example: Bach, Fugue in C Major, WTC I on the previous slide

• **Tonal Answer:** Not an exact transposition of the subject. Some melodic intervals are altered because of the tonic-dominant tonal adjustment.

Example: Bach, Fugue in C Minor, WTC I, BWV 847 on the next slide

Example: Bach, Fugue in C Minor, WTC I, BWV 847



The altered melodic intervals are enclosed in boxes.

Note that the tonic-dominant leap in the first box is answered by the dominant-tonic leap in the second box. Reason for the swap: An exact transposition would produce a G5-D5 leap that would conflict with the underlying harmony, the C minor chord.



When to Write a Tonal Answer?

1. A tonic-dominant leap that appears early in the subject is usually answered by a dominant-tonic leap.

Example: Bach, Fugue in C Minor, WTC I, BWV 847 on the previous slide

2. When the subject modulates from the tonic to dominant, the answer shows the reverse.

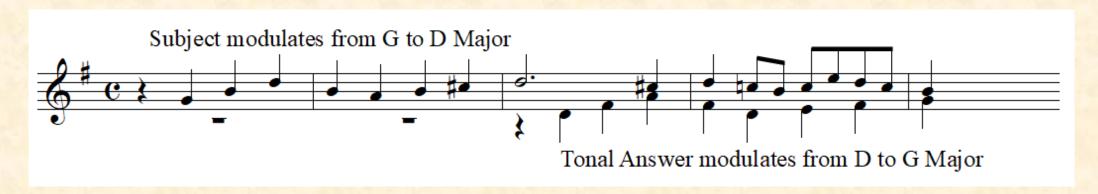
Example: Bach, Herr Jesu Christ, dich zu uns wend, BWV 749 on the next slide

Example: Bach, Herr Jesu Christ, dich zu uns wend, BWV 749



Overall, the subject modulates from G major to D major, the tonal answer does the opposite.

Notice that the arpeggiated G major chord in m. 1 is not altered in the answer in m. 3. (A similar example is the "Little" Fugue in G Minor, BWV 578.)



Section 3: Countersubject

• Countersubject: A recurring counterpoint that accompanies the subject/answer.

Example: Bach, Fugue in C Minor, WTC I, BWV 847





How to Write a Successful Countersubject?

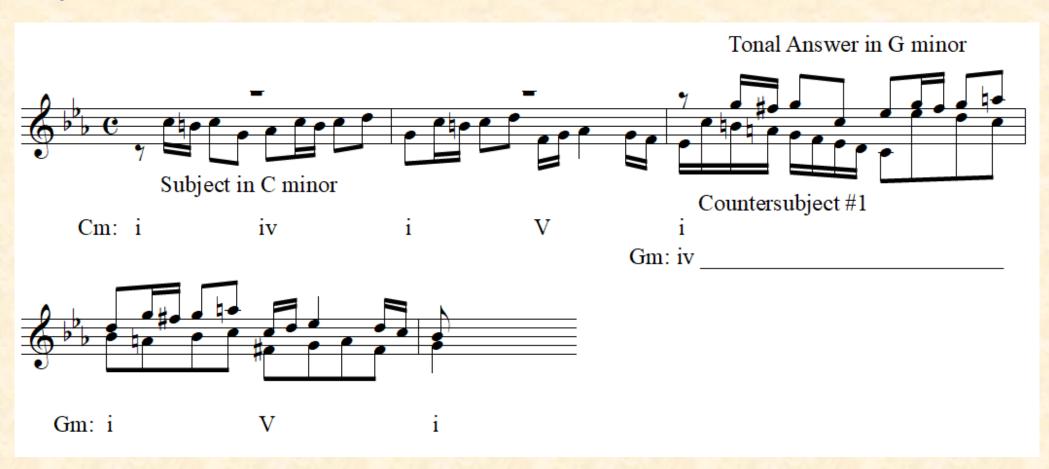
1. Examine the harmonic implication of the subject/answer. Compose a countersubject that supports or clarifies the implied harmonies.

Example: Bach, Fugue in C Minor, WTC I, BWV 847 (again) on the next slide

The roman-numeral analysis shows the basic harmonic trajectory, not a detailed chord-by-chord analysis:

- The subject suggests i-iv-i-V-i in C minor.
- The tonal answer suggests iv-i-V-i in G minor. Not i-iv-i-V-i because the tonal answer comes right after the conclusion of the subject, the last chord of which is the C minor triad.

Example: Bach, Fugue in C Minor, WTC I, BWV 847 – consider the harmonic implication



How to Write a Successful Countersubject?

2. The countersubject must be invertible at the octave because it may appear above or below the subject/answer.

Interval size: 1 2 3 4 5 6 7 8
Inversion at the octave: 8 7 6 5 4 3 2 1

The subject and countersubject should be kept within an octave apart as much as possible.

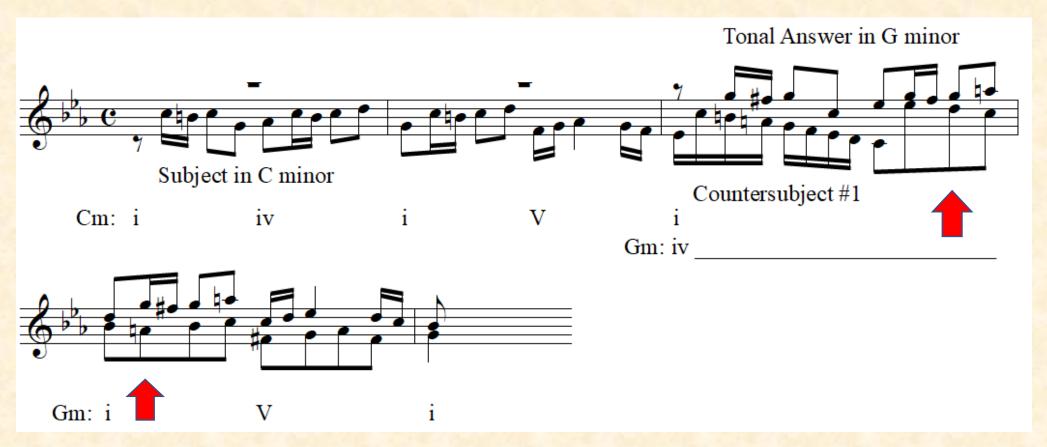
At the inversion at the octave:

- Imperfect consonances remain as imperfect consonances (3rd, 6th).
- Dissonances remain as dissonances (2nd, 7th).
- Perfect unison becomes perfect octave and vice versa.
- Perfect 5th becomes the dissonant perfect 4th.

The perfect 5th interval must be used with care, particularly on strong beats. Also, parallel 4ths would become parallel 5ths.

Example: Bach, Fugue in C Minor, WTC I, BWV 847 – consider the intervals between the tonal answer and countersubject

(explanation on the next slide)

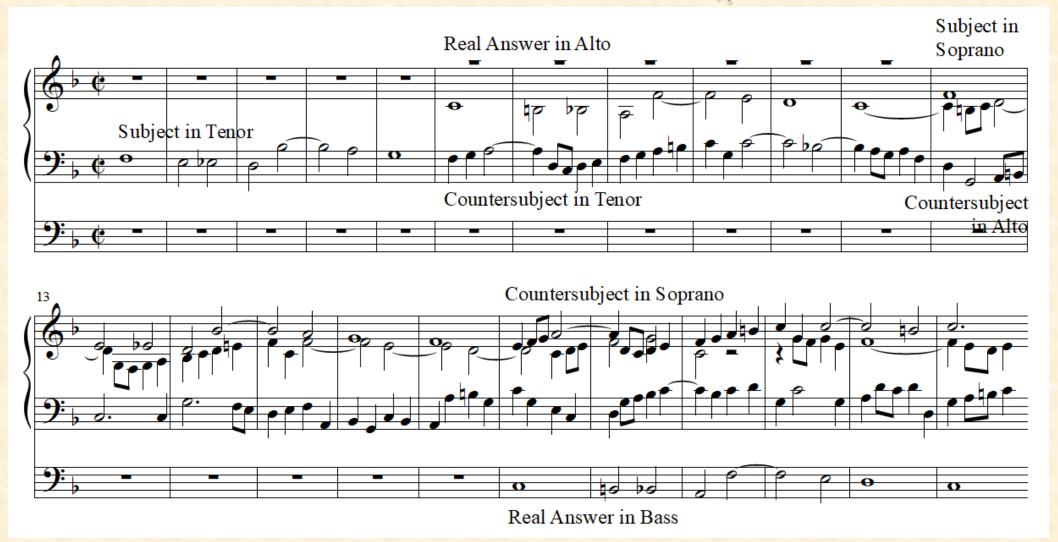


- In this example, the intervals between the subject and countersubject are mostly imperfect consonances (3rds, 6ths).
- The two voices exceed the distance of an octave only once, in m. 3, beat 3.
- In m. 3, the red arrow points at the perfect 4th interval between the tonal answer and countersubject. It would become a 5th at inversion. This interval is fine because the note D is a passing tone.
- In m. 4, the red arrow points at the dissonant 7th. The G is an incomplete neighbor to the F#. There are actually parallel 6ths between the tonal answer and countersubject.

How to Write a Successful Countersubject?

- 3. Contrasts in melodic contour and rhythm between the subject and countersubject are necessary.
 - Vary the melodic motion between the two voices similar motion, oblique motion, contrary motion, parallel 3rds and 6ths.
 - Vary the rhythm when one line is rhythmically active, make the other line less active.
 - This is not like hymn harmonization. The subject and countersubject must sound like independent melodic lines.

Example: Bach, Fugue in F Major, BWV 540 – consider the rhythmic and melodic contrasts between the subject and countersubject

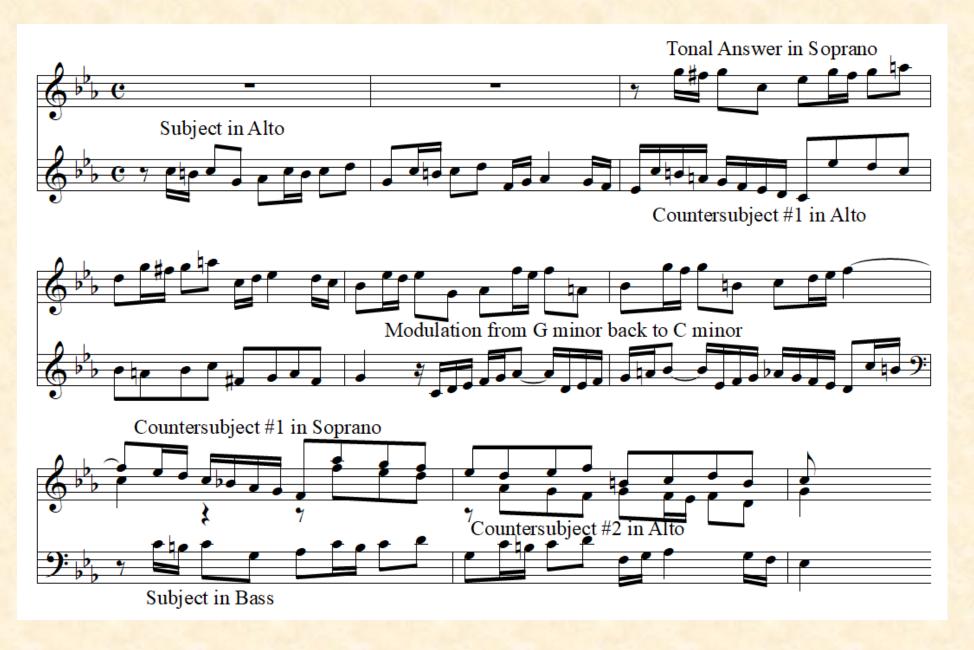


Section 4: Fugal Exposition

- Fugal Exposition: The voices enter one at a time, with the subject and answer alternating. Furthermore, the subject and answer may be accompanied by one or more recurring countersubject(s).
- Order of Entries: It is the most common to start from an inner voice, then proceed outward.
- Modulation back to the Tonic Key: For a non-modulating subject, the
 answer would begin and end in the dominant key. A modulation back to
 the tonic key would be necessary before the third voice can enter with the
 subject in the tonic key.

Example: Bach, Fugue in C Minor, WTC I, BWV 847 – layout of the fugal exposition (the score is on the next slide)

	mm. 1-3	mm. 3-5	mm. 5-7	mm. 7-9
Soprano		TA in Gm	Modulation	CS1
Alto	Subj in Cm	CS1	Gm to Cm	CS2
Bass				Subj in Cm





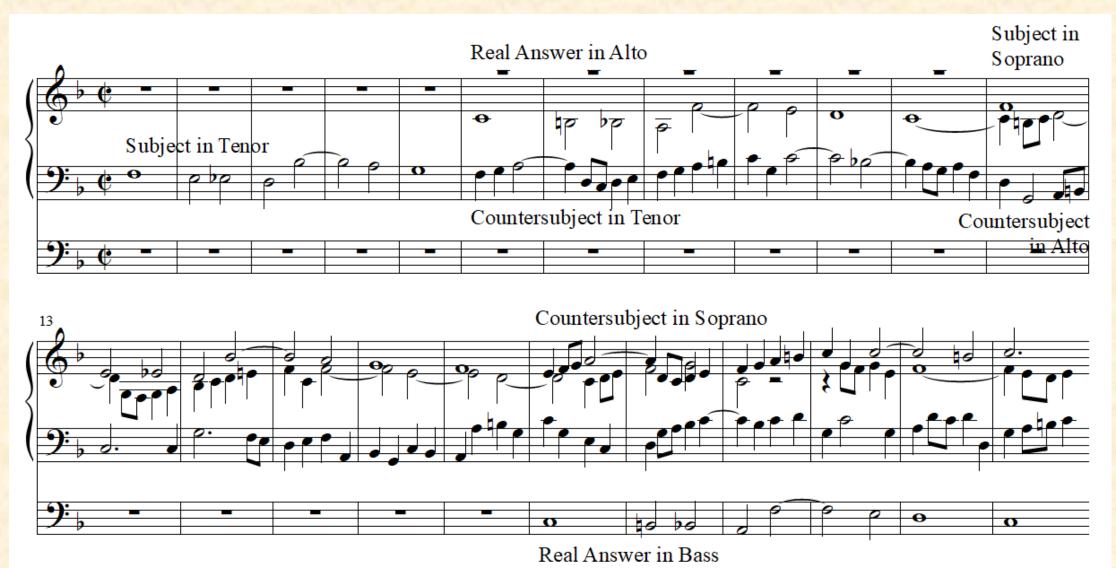
Example: Bach, Fugue in F Major, BWV 540 – layout of the fugal exposition (the score is on the next slide)

The two real answers end differently. In mm. 10-11, the alto's real answer does not conclude in C major. The modulation back to F major is worked into the last two notes of the answer.

The real answer in the bass concludes in C major at mm. 22-23.

	mm. 1-6	mm. 6-11	mm. 12-17	mm. 18-23
Soprano		-	Subj in FM	CS
Alto		RA in CM	CS	Free Ctpt
Tenor	Subj in FM	CS	Free Ctpt	Free Ctpt
Bass				RA in CM





Section 5: Sample Question

- On the AAGO exam, candidates are required to compose a fugal exposition for THREE voices. The subject is given and a recurring countersubject is required.
- On the FAGO exam, the fugal exposition is for FOUR voices, scored for a string quartet. A recurring countersubject is required. (The main challenge here is the instrumentation. The fugal writing is not that different from what is required on the AAGO exam.)
- The fugue questions often ask for a modulatory episode and the bringing back of the fugue subject in a closely-related key, or in inversion, stretto... We will consider these in the webinar on March 27.

This is the fugue subject from the 2022 AAGO exam:



This is the fugue subject from the 2022 FAGO exam:



Questions to think about:

- 1) Real or tonal answer?
- 2) What chords are implied in each subject?

A possible interpretation of the harmonies in the 2022 AAGO fugue subject:



A REAL ANSWER is likely because:

- The subject does not modulate from the tonic to dominant.
- The subject does not feature any tonic-dominant or dominant-tonic leap.

From the 2022 solution booklet (posted on the AGO HQ Certification webpage):

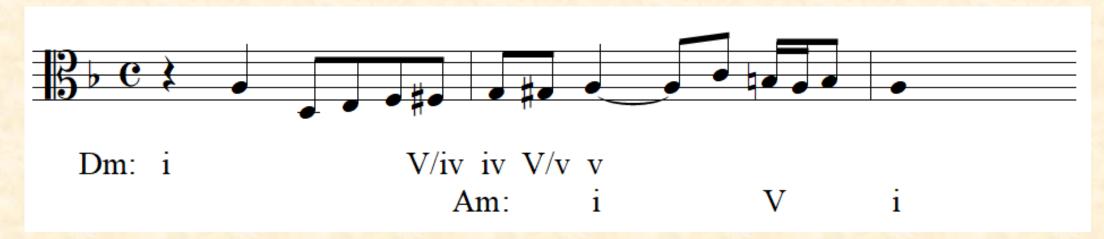


Observe the following in mm. 3-4:

- The real answer and the countersubject make imperfect consonances on most beats.
- Rhythmic contrasts between the two voices.
- A lot of contrary motion and some parallel 6ths between the two voices.
- The harmonic progression is clear and logical.

The exposition ends at the red arrow.

A possible interpretation of the harmonies in the 2022 FAGO fugue subject:



The solution booklet suggests a REAL ANSWER:

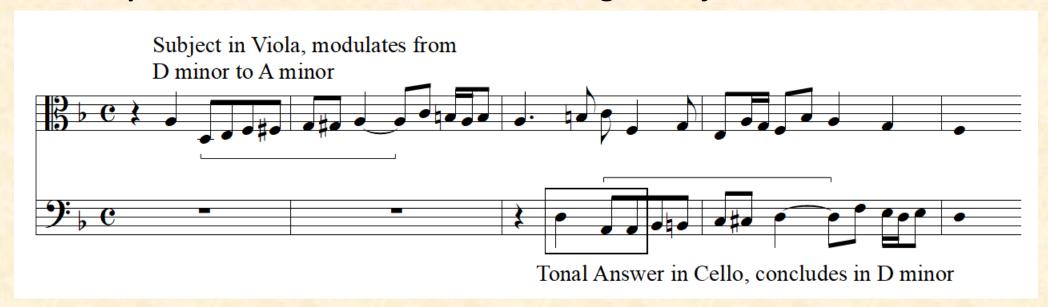
- The subject begins and ends on the note A. Harmonically, it begins in D minor, then G minor is tonicized and a modulation to A minor follows.
- The advantage of writing a real answer down a 5th is that the answer can begin and end on the note D. Additionally, the key of C is tonicized before the modulation back to D minor occurs.

From the 2022 solution booklet (posted on the AGO HQ Certification webpage):



This exposition ends at m. 9. Due to space limitation, mm. 8-9 are not included on this slide; however, a sample solution can be viewed on pp. 18-19 of this booklet.

Another possible solution for the D-minor fugue subject:



Note that:

- The dominant-tonic leap becomes a tonic-dominant leap in the answer. (The tonal adjustment is enclosed in a box.)
- The subject shows a chromatic ascent from D to A. This becomes the chromatic ascent from A to D in the answer. (The ascents are indicated by the square brackets.)
- The countersubject is modified to reflect the changes in the answer.

Recommended Readings:

- Walter Hilse, "The Fugal Answer," in *The American Organist*, April 2006.
 Click <u>here</u> to see the article.
- Walter Hilse, "Regular Countersubjects in Fugue," in *The American Organist*, March 2008.

Click here to see the article.

 Robert Gauldin, A Practical Approach to 18th Century Counterpoint, revised edition. Illinois: Waveland Press, 2013.