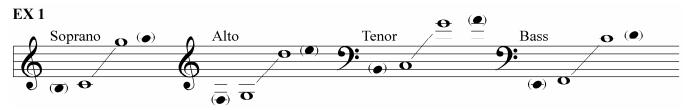
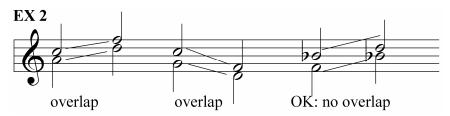
UNIT III: CONNECTING (ROOT-POSITION) TRIADS

- **I. Traditional harmony exercises** are written in 4 parts (SATB); this is the minimum number of parts that requires decisions about doubling but still emphasizes voice-leading. The conventions of such exercises are:
 - a. Write on 2 staves, SA vs. TB, with opposing stems; indicate the Roman numeral analysis with each exercise.
 - b. Use the customary ranges of EX 1:



Don't exceed these ranges unless it's very necessary; write as though someone is going to sing the music.

c. Don't overlap voices (when one voice proceeds beyond the previous note of an adjacent voice in similar motion): EX 2.



This rule is often violated in the tenor & bass; see the first few notes of the Praetorius example (*Es ist ein Ros entsprungen*) at the end of this chapter. As one can see there, when two voices proceed from a unison by similar motion, overlap is unavoidable. The principle is also difficult to follow if the soprano has wide leaps.

- d. For now, don't cross voices either (this rule will be modified later).
- e. Don't let the S-A or A-T distance exceed an octave; unless absolutely necessary, and then only for a note or two.

The T-B distance will often be more than an octave. Wider intervals on the bottom sound best; if the tenor and bass are too close, things get muddy.

When the upper three parts are within an octave, the chord is said to be in "close position"; in "open position" the SAT span exceeds an octave. The keyboard analog is playing the parts 3 notes in the right hand and 1 in the left, or 2 + 2.

II.Doubling preferences (for root-position triads).

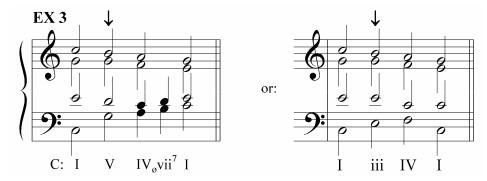
a. In major and minor triads, the first preference is to double the root. Notice, this means that the SAT voices form a complete triad. The second choice is to double the 5th, and last choice is to double the 3rd.

Doubling of the root is obligatory at the ends of phrases. The third is somewhat better doubled in minor triads than in major ones.

- b. In augmented and diminished triads, prefer to double the third. This minimizes the dissonance with the bass. However, one should generally seek to avoid root-position augmented and diminished triads, since they almost always sound terrible (but see IV.e.3 below).
- c. Don't double the leading tone (the "LT", the 7° of the key).
- d. Wherever possible, write a complete triad; in any case, the third cannot be omitted.

III. Melodic Rules

- a. Avoid augmented intervals, as from -6° to $+7^{\circ}$ in minor.
- b. The leading tone generally wants to ascend to the tonic, especially in the soprano and bass. But it is easy to construct situations in which this tendency is not present: EX 3.



c. Try to arrange melodic tritones, especially in the outer parts, so that the line can reverse itself without violating the tendency of the LT to rise, and of 4° to descend; in minor, of 6° to descend, and of 2° to rise.

Another way of saying this: after a leap of several tones, the melody wants to turn back on itself. But the notes in question want to go to their nearest $\frac{1}{2}$ -step neighbor ($7^{\circ} \rightarrow 8^{\circ}$, $4^{\circ} \rightarrow 3^{\circ}$; in minor $6^{\circ} \rightarrow 5^{\circ}$, $2^{\circ} \rightarrow 3^{\circ}$). To arrange the music so that all these things occur, then, one must leap up to 4° , down to 7° ; up to 6° , and down to 2° : EX 4.



Yet another way to formulate this desiderata (not rule): leaps of a diminished fifth are quite acceptable, if the line reverses itself; leaps of an augmented fourth are not so good. Again, one is avoiding the melodic use of augmented intervals. All this applies much more to the soprano more than to the other parts.

d. Try to write good counterpoint with the good harmony: make the lines vocal, especially the outer parts.

IV. Chord-progression rules:

- a. Parallel unisons, octaves, and perfect 5ths are forbidden. They are especially likely to arise in root movement by step.
- b. "Direct" (or "hidden") fifths and octaves are those in which the motion to the interval is similar, but not parallel: EX 5. **EX 5**



The authorities disagree on these, and they can be found in good music. We shall proceed as follows:

Direct 5ths and 8ves may occur within a single harmony, when the chord is just changing position.

Otherwise, direct 5ths and 8ves are permitted so long as one part moves by step.

BUT the stepwise progression tritone \rightarrow perfect fifth – EX 6 – is acceptable *only if the bass is not involved.* **EX 6**



(The progression perfect 5th→ tritone, however, is unrestricted).

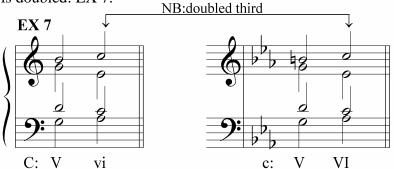
- c. The simplest and most common connection between two chords, which we will use exclusively for the first exercises:
 - 1. Retain all the common tones.
 - 2. Move the other parts to the nearest chord tones, in accord with the voice-leading rules.

Chords in the same key whose roots are a 3rd or 6th apart have two common tones; a 4th or 5th apart, one common tone; a 2nd or 7th apart, no common tones.

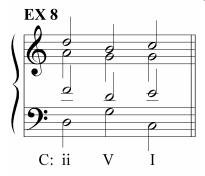
d. Often the upper three parts will move in contrary motion to the bass; this is recommended when there are no common tones. In any case, contrary motion, especially with the bass, is most desirable for contrapuntal independence of the parts. Moving all four voices in the same direction is poor part-writing, especially if they all skip. (But this can occur in chorale writing, after a cadence with a fermata.)

e. Special cases

1. V-vi or in V-VI, the "deceptive cadence": the LT in V, if it's in the soprano, goes to the tonic, as per III.b above. To avoid parallels with the bass, the supertonic descends to the tonic. This means that in vi or VI in this progression, the 3rd of the submediant (1°), not the root, is doubled: EX 7.



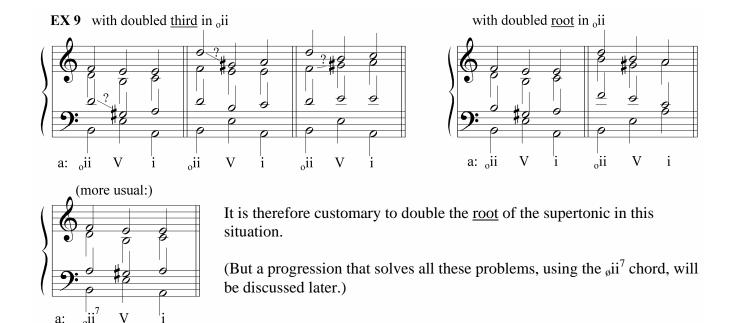
2. In the progression ii-V, starting with the supertonic in the soprano, generally common tones are *not* kept, but rather the three upper parts descend against a rising bass: EX 8.



This is because ii-V is usually part of a full cadence (ii-V-I), and the soprano circumscribes the tonic for finality, proceeding 2°-7°-1°.

This is also a good plan for the progression IV-V: to have the upper three parts descend against a rising bass.

3. In the minor mode progression oii -V (-i), it will not be possible to write the root-position diminished chord (oii) with a doubled third, without some awkward voice-leading: EX 9.

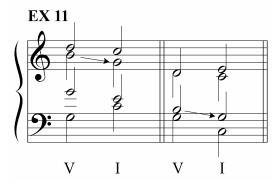


V. Freer possibilities

Since the music written by keeping all the common tones can be quite uninteresting, even at this stage we will want to connect triads more freely for melodic purposes, by:

- a. moving a chord tone by 4th or 5th, instead of to the nearest note melodically, these are "easy intervals";
- b. moving all parts in contrary motion to the bass, even when not necessary;
- c. writing the last chord of an exercise or piece (and occasionally the intervening chords) with a *tripled* root, plus the 3rd: when the progression is V-I, this allows a soprano supertonic to descend to the tonic, as well the LT to ascend to 1°: EX 10.

Another way to solve this problem, provided the LT is in an inner voice, is to let it drop to 5° , thus ending with a complete tonic triad: EX 11.



Bach does this at times even when the LT is in the tenor, as in the second instance above, and the TB thus form disjunct direct fifths.

C: V

I

In some circumstances the LT (in an inner voice, again) can also leap up, to complete the tonic triad: EX 12.



d. When a chord is repeated, the parts can, and should, move - the chord "changes position", with no harmonic progress.

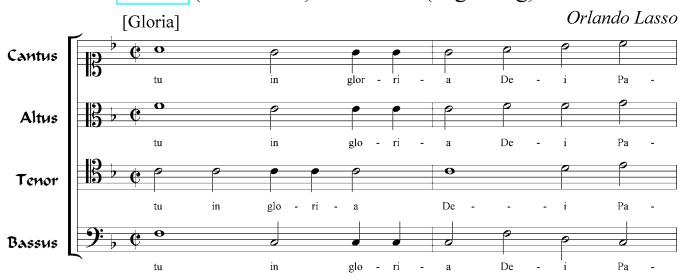
VI. Chord Progressions

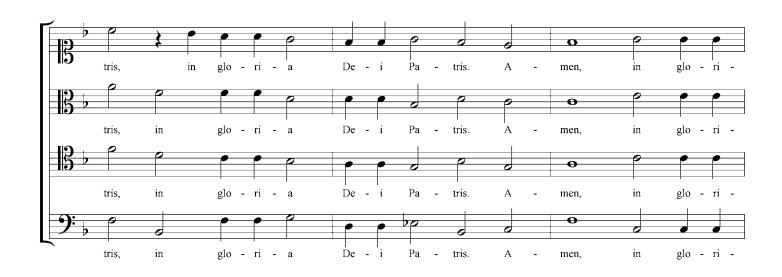
A number of writers attempt to classify root progressions as intrinsically "strong" or "weak"; this need not be taken too seriously. It's true that a chord progression in which all the notes are changed (as in IV-V) gives a greater sense of musical motion than one which retains two pitches (I-vi). And certainly the V-I progression is pre-eminent in music of the common practice period. But a great many rhythmic, melodic, and contrapuntal factors cloud the picture, and act to determine chord choice just as strongly as root movement.

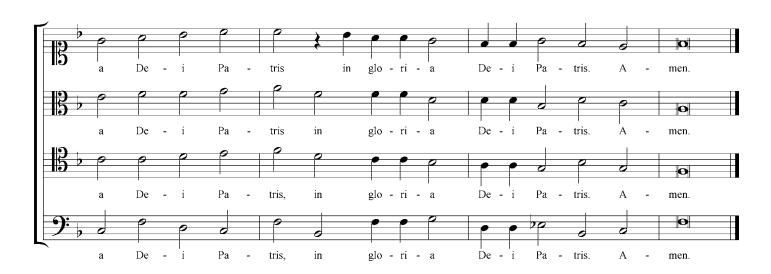
Trying to make music with only root-position chords may seem difficult, but cf. the Brahms, Chopin, and Schubert examples below. The Praetorious is in a style called *Cantionale*, that of 16th and 17th-century German chorale settings; today it is often called "familiar" or "hymn" style. It relied heavily, though not exclusively, on root-position triads. The style derives largely from the homophonic writing in polyphonic works of the sixteenth century; cf. the Lasso example (*Missa super Pilons...*).

Missa super Pilons...

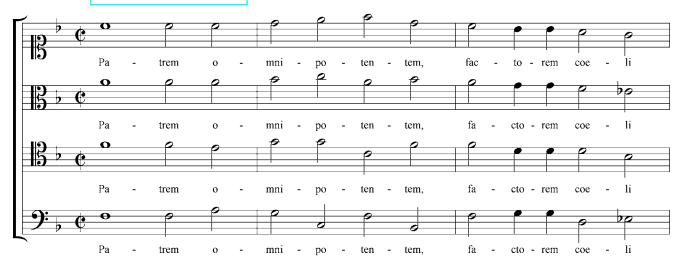
Gloria (conclusion) and Credo (beginning)

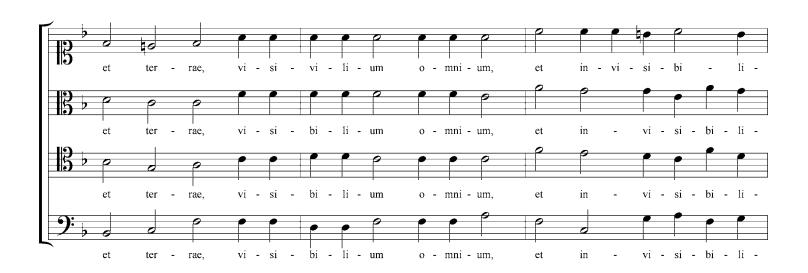


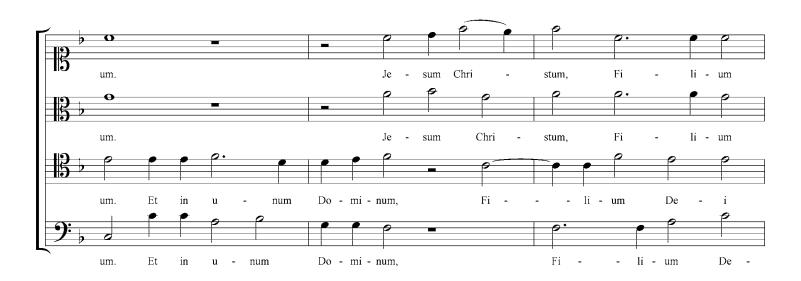




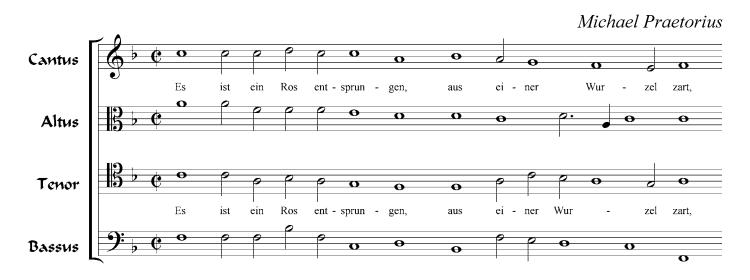
Credo in unum deum

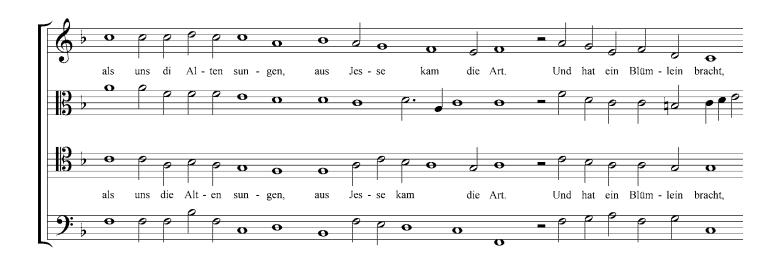


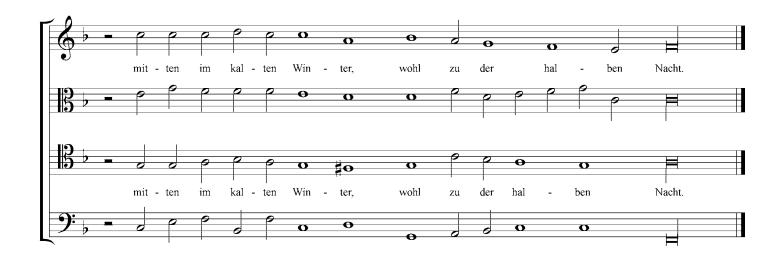


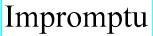


Es ist ein Ros entsprungen















Ballade

