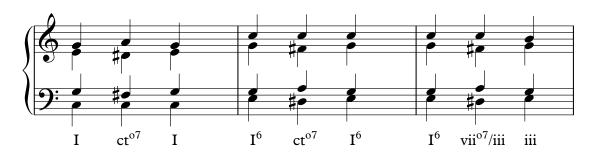
Chromatic wedge progressions and common-tone diminished seventh chords

This handout supplements MGTA, pp. 625-629.

The textbook's discussion of **chromatic wedge progressions** is excellent, but the discussion of **common-tone diminished sevenths** is a bit misleading in that MGTA treats ct⁰⁷ chords as if they were a generalized phenomenon. However, in practice ct⁰⁷ chords are commonly encountered in only three contexts—leading to I, to V or V⁷, and to ii⁷—which are most easily learned as three particular idioms.

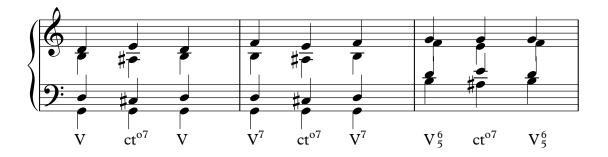
The two most frequently used ct^{o7} chords are those resolving to I and to V (or V⁷). In both cases the common tone is the <u>root</u> of the chord of resolution.

I) **Resolving to I.** The voice leading is as follows: #2 acts as a neighbor to 3. #4 and 6 act as neighbors to 5 (leading to a I chord with a doubled fifth). 1 is a common tone.

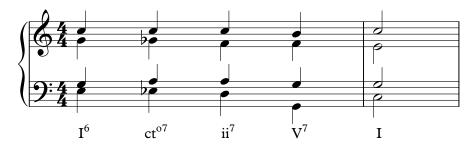


This results in a chord spelled as if its root were #2. However, ct^{o7} chords do not behave according to root-based progression principles, so there's no root in the usual sense; ct^{o7} chords should be analyzed simply as ct^{o7}, regardless of "inversion". (The chord of resolution will determine whether a #ii^{o7} should be labeled as ct^{o7} or vii^{o7}/iii, as in the last example above.)

2) Resolving to V or V⁷. This ct⁰⁷ chord is spelled as $\#vi^{07}$. The voice leading is analogous to the ct⁰⁷ \rightarrow I: $\#\hat{6}$ acts as a neighbor to $\hat{7}$, $\#\hat{1}$ acts as a neighbor to $\hat{2}$, $\hat{5}$ is a common tone. If there is no seventh in the V chord, $\hat{3}$ goes down to double the fifth, just as in the ct⁰⁷ \rightarrow I. If there is a seventh, then $\hat{3}$ acts as its lower neighbor.

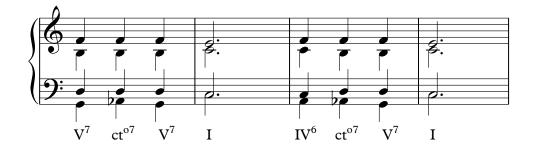


3) Resolving to ii⁷. The other conventional ct^{o7} chord resolves to ii⁷ (never to just a ii triad). The common tones are the 5th and 7th of the ii⁷. It is most often used to connect I⁶ to ii⁷.



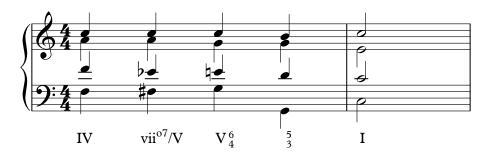
This is enharmonically equivalent to the $ct^{07} \rightarrow I$, but the downward voice leading of $ct^{07} \rightarrow ii^7$ generally leads it to be spelled as if the root were scale degree $\hat{6}$.

3¹/₂) ct⁰⁷ or vii⁰⁷? Finally, V⁷ can be approached via a similar downward voice leading:

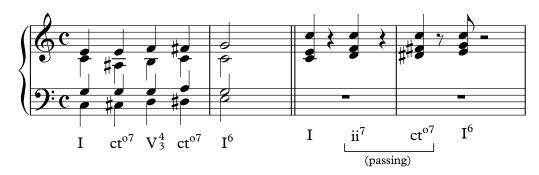


As in the $ct^{07} \rightarrow ii^{7}$, the 5th and 7th are common tones (and so is the 3rd). MGTA identifies this as a ct^{07} chord, which is logical (see example 30.30). But it can also be analyzed as a regular vii⁰⁷ chord, since vii⁰⁷ has a dominant function and may proceed to V⁷ before resolving to the tonic. It is worth noting that this sort of usage is reasonably common in Classical style, while the other ct^{07} chords are more characteristic of Romantic and 20th-C music.

Speaking of Classical antecedents, the ct^{o7} chord may have developed from the cadential idiom in which vii⁰⁷/V proceeds to a cadential $\frac{6}{4}$ chord before resolving to V.



In this idiomatic cadential pattern, the seventh of the diminished chord resolves up to $\hat{3}$. We can choose to understand this as a momentary delay of the "proper" downward resolution to $\hat{2}$, and feel that the diminished chord still functions as vii^{o7}/V because the cadential ${}^{6}_{4}$ belongs to the dominant function. But the voice leading is identical to that of the ct^{o7} \rightarrow I. In fact, in this context composers sometimes wrote the "vii^{o7}/V" chord with $\sharp \hat{2}$ in place of $\flat \hat{3}$. Common-tone diminished seventh chords are not always used as complete neighbors; they are often incomplete-neighbor chords or part of a sequence of passing chords, as in the examples below. The first is an extremely common pattern that uses ct⁰⁷ chords both to I and to V⁷. It is useful to practice this progression in all keys. The second is the classic "Count Basie ending". You should learn to recognize the ct⁰⁷ in all contexts.



The $ct^{07} \rightarrow i$ is rarely used in minor. A glorious exception occurs in the opening of Schubert's C major string quintet, first movement. The first phrase features a typical ct^{07} chord resolving to the tonic, C major. The second phrase sequences the first phrase a step higher, tonicizing D minor, and the corresponding ct^{07} chord resolves to a D minor triad. The first phrase already hints at a C minor tonic, with the first violin's Eb jumping down to G (instead of up to Eb like a Db would, and as the Eb in the viola does). This helps prepare the unconventional ct^{07} chord to the D minor tonic in the second phrase.

