## Altered dominant chords: $\# 5$ th and $b 5$ th and their relation to the augmented sixths

Two alterations of the dominant common in Romantic and jazz harmony replace diatonic stepwise voice leading with chromatic semitonal voice leading. They are formed by either raising or lowering $\hat{2}$.

## $V$ augmented or sharp five

In a V-I progression, $\hat{2}$ may be raised, changing the whole step $\hat{2}-\hat{3}$ to a half step and creating an augmented dominant.

The same can happen with $\mathrm{V}^{7}$, in which case the fifth and seventh of the chord typically form the interval of an augmented $6^{\text {th }}$ which resolves outward to an octave. (Compare this to a common resolution of $\mathrm{IV}^{\mathrm{dom} 7}$ to $\mathrm{I}^{\mathrm{dom} 7}$ in the blues.)


A common passing chord between I and
IV is an augmented applied dominant.


## $\mathbf{V}^{7}$ diminished or flat 5

In a V-I progression, $\hat{2}$ may be lowered, changing the whole step $\hat{2}$ - I to a half step and creating a diminished fifth over the V . Note that $\mathrm{V}^{755}$ retains the major third: this is not a diminished chord in the usual sense.
 that resolves to the tonic "secondary".
In second inversion, this is a the same structure as a $\mathrm{Fr}_{3}^{4}$ chord, but built over $b \hat{2}$ and resolving to the tonic instead of the dominant. MGTA calls this a secondary $a u g^{6}$ chord: you can see why, but it's odd to call a chord


An interesting feature of the dominant $b 5$ chord is that it is enharmonically equivalent to its tritone transposition.


This relates to tritone substitution, where a chord in a descending fifth progression is replaced by a chord of the same quality a tritone away. Although only the French chord is exactly equivalent to its tritone transposition, the other augmented sixth chords act similary. The German chord, which normally goes to V , is equivalent to $\mathrm{V}^{7}$ of the Neapolitan, which is a tritone away from V . The Italian chord is equivalent to $\mathrm{V}^{7} / \mathrm{N}$ without the fifth.

Tritone substitution allows a given chord to be approached by descending half-step root motion in place of descending fifth motion. Note that when root motion by fifth is replaced with root motion by semitone, the pitches forming the tritone of the dominant-like chord are the same, possibly respelled enharmonically.


In Broadway, jazz, and pop, these chords are typically spelled as dominant seventh chords rather than augmented sixths. The tritone and min $7^{\text {th }}$ (the enharmonic equivalent of the aug $6^{\text {th }}$ ) often resolve in parallel motion, as in (C) above. Because of this parallel voice leading, some theorists consider the $b \mathrm{VI}^{\mathrm{b7}}$ chord fundamentally different from the $\mathrm{aug}^{6}$ chords used in classical music. But this is exactly how \#f̂ resolves in classical music when V/V or $\mathrm{V}^{7} / \mathrm{V}$ resolves to $\mathrm{V}^{7}$, as in (D) above and the Mozart example below. In Romantic harmony, augmented sixth chords also sometimes resolve to $\mathrm{V}^{7}$ in this way as well, such as the famous "Tristan" chord.


That said, this stylistic generalization holds up pretty well: in classical music, the \#̂̂ in augmented sixth chords generally resolves up, while in popular music, the same note (now theorized as b今̂) generally resolves down. Just as in classical music, the resulting voice leading is maximally efficient: all voices move down by semitone, incluing (if present) the fifth, there being no proscription against parallel fifths in popular styles.

Although the downward voice leading from the seventh of the $\mathrm{VI}^{\mathrm{b7}}$ chord is the norm in popular music, occasionally the "minor seventh" resolves upward (as an augmented sixth). In the following example, Lennon uses both $\mathrm{V} 7 / \mathrm{V}$ and its tritone substitute, the Ger6. An interesting feature is the upper pedal tone F , which produces the dissonant flat 9th over the $\mathrm{V} 7 / \mathrm{V}$ and an unresolved 6th over the V . Also interesting: the music that follows is in A minor; so the $F$ resolves to $E$, but the $C \#$ moves down to $C$ and the A dominant never resolves to D minor.

Lennon/McCartney, "I Want You"


In the following example, the guitar arpeggios follow the conventional blues-based parallel voice leading, with Eb resolving to D . But the vocal line's E , which predominates (with various bluesy intonation variants) in the first four measures, resolves up to the Eh in measure 5 like a classical outward-resolving augmented sixth.

Lennon, "I'm Losing You"


