Leading-Tone Seventh Chords

**Fully-diminished:** viio7 and its inversions function to expand i(I), may decorate V, or substitute for V. When viio7 (or any of its inversions) resolves to the tonic (I, i, I6, i6):

- *ti* must resolve to do, *le* must resolve to *sol*,
- A4 may resolve out to a 6th, up to a P4 or down to a P4,
- d5 may resolve in to a 3rd, or up to a P5 if and only if *me/mi* is in the bass (just like viio6 - I/i).

![Diagram of viio7 and viio6/5 resolving to i and i6](image)

**Expansion of viio7 via voice exchange**

Melodic A2 between *le* and *ti* is ok since melody arpeggiates viio7.

![Diagram of viio7 over a tonic pedal](image)

**Half-diminished (in Major only)**

Fully-diminished in Major via mixture.

![Diagram of viio7 over a tonic pedal](image)