AP Music Theory: Unit 3

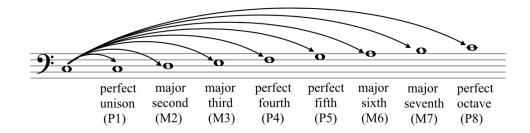
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Music Fundamentals III: Triads and Seventh Chords

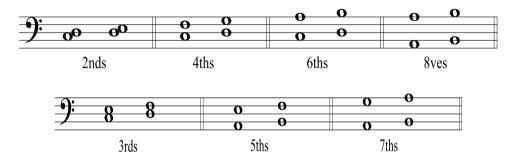
Triads

Before discussing the different types of triads, it is important to know **intervals**.

- Interval: measurement/distance between 2 different pitches on a musical staff
 - For example, when you go from the tonic note to another note in a C major scale, these are the intervals. There are two elements to naming intervals: quality and number.



- Even number intervals are placed space to line or line to space.
- Odd number intervals are placed line to line or space to space.



• Perfect intervals are always natural to natural, flat to flat, and sharp to sharp, except between notes B and F.



exceptions between B and F

A **chord**, which is the basic unit of harmonies, is the combination of 3 or more different notes.

- **Triads** are chords that have 3 pitches stacked in intervals of thirds
- **Seventh chords** have 4 pitches stacked in intervals of thirds.

From the diatonic thirds, there are four types of triads:

- **Major** (**M**) and **minor** (**m**) are <u>consonant triads</u> because they have a perfect fifth (have 7 half steps in total)
- Augmented (A) and diminished (d) are dissonant triads because of their dissonant fifth

Major triad: major
$$3^{rd}$$
 + minor 3^{rd}

Minor triad: minor 3^{rd} + major 3^{rd}

m3 + M3

Diminished triad: minor 3^{rd} + minor 3^{rd}

m3 + m3

Augmented triad: major 3^{rd} + major 3^{rd}

M3 + M3

Number of half steps Name of interval Number of half steps Name of interval 1 m2 7 P5 m6

m3

• The picture above displays the relation between the # of half steps and the name of the interval. (Tritone is another term for augmented 4th/diminished 5th)

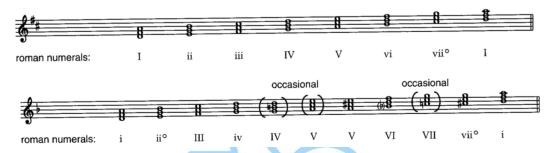
M6

m7

Roman Numerals

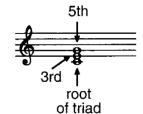
From Unit 1, scale degree numbers represent individual pitches on a given scale. Roman numerals represent triads on which they are built.

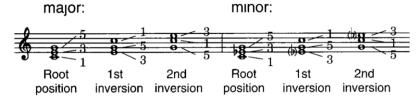
- Example: A B flat major triad is written as IV for an F major key, since it is built on the fourth scale degree (subdominant) of that scale.
 - Major triads = uppercase numerals, minor triads = lowercase numerals, diminished triads = lowercase with degree sign, augmented triads = uppercase with + sign
 - Example: In D major and d minor, the corresponding roman numerals are listed with each scale degree chord.



Triad/Chord Inversion

On this triad of C major, it is stacked on the lowest pitch. So, the chord is in the <u>root position</u>. <u>First inversion</u> occurs when the 3rd appears in the bass. <u>Second inversion</u> occurs when the 5th is in the bass.





Figured Bass

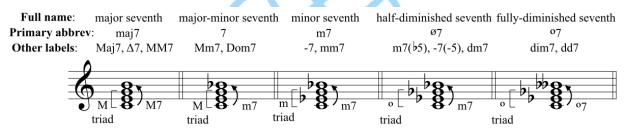
- Shorthand notation writing used from 1600-1800 for intervals above bass notes
 - When writing the figure bass of chords, the bass note (root) doesn't count and the intervals between the root to the notes are counted.

Example: For a root-position triad, the positions are 1, 3, and 5. The 5 6 figured bass would be written as 3. A first inversion chord is 3, and a second inversion chord is 4.

Seventh Chords

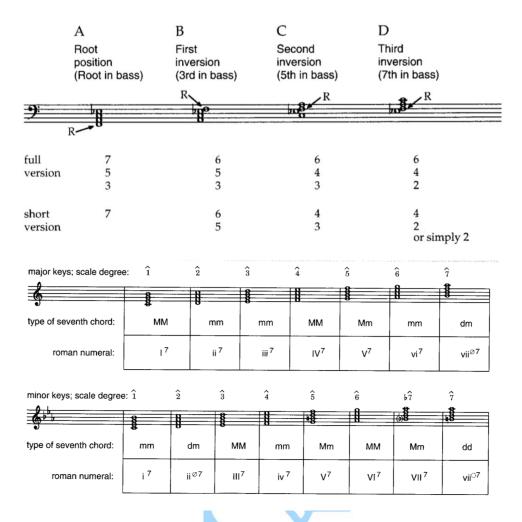
Seventh chords have an extra note above the triad (higher than the 5th scale), and there are 5 different types:

- Major seventh chord (Maj 7th)
- Major-minor seventh chord (aka dominant seventh chord, Mm 7th)
- Minor seventh chord (mm 7th)
- Half-diminished seventh chord (dm 7th)
- Fully-diminished seventh chord (aka diminished seventh chord, dd 7th)
 - The "7th" means that the fourth note is on the 7th degree scale (subtonic/leadingtone).



Inverted Seventh Chords

• There can be several inversion chords. For example, the image below shows the first, second, and third inversions of a chord with the root note as F. Remember for inversion chords, the root is moved to the top, then the following note for the inversion levels.



Remember...

All 5 seventh chords have the corresponding scale degrees.

• The slash through the degree sign indicates half diminished.

Graphics are from *The Complete Musician*! We do not claim all of this as original work but most of it is.

