



MUSECA MONOGRAPH SERIES

The Devil's Interval

*A Monograph on the Tritone
in Western Music*

Museca

MUSECA PUBLISHING

THE DEVIL'S INTERVAL

A Monograph on the Tritone in Western Music

First published 2026
Museca Publishing

© 2026 Museca. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means—electronic, mechanical, photocopying, recording, or otherwise—without the prior written permission of Museca. Requests for permission should be directed to Museca Publishing.

This monograph is intended for educational and scholarly purposes. All musical works, composers, and recordings referenced herein are the property of their respective rights holders. Citations and references to third-party works are made under the doctrine of fair use for purposes of commentary, criticism, and scholarship.

Museca Monograph Series

Printed and distributed by Museca Publishing
museca.org

Table of Contents

Preface

List of Figures

Introduction

1. Theoretical Construction and Acoustic Properties

- 1.1 Defining the Tritone
- 1.2 All Tritone Pairs
- 1.3 Acoustic Properties
- 1.4 The Tritone in the Major Scale

2. The Tritone in Harmony, Voice Leading, and Resolution

- 2.1 The Dominant Seventh Chord
- 2.2 Voice-Leading Principles
- 2.3 The Tritone and Cadential Function
- 2.4 The Tritone in Minor Keys

3. History and Cultural Perspectives

- 3.1 Medieval Origins: Diabolus in Musica
- 3.2 Renaissance: Controlled Dissonance
- 3.3 Baroque: The Tonal Engine
- 3.4 Classical and Romantic Eras

4. The Tritone Across Musical Styles

- 4.1 Early Modernism: Symmetry and Color
- 4.2 Jazz: The Tritone Substitution
- 4.3 Broadway and Film
- 4.4 Rock and Metal

5. Compositional Applications and Techniques

- 5.1 Using the Tritone for Tension and Release
- 5.2 Tritone Substitution in Practice

5.3 Melodic Uses

5.4 Structural and Symmetrical Uses

5.5 The Tritone Paradox

6. Key Works Featuring the Tritone

Conclusion

Bibliography and Further Reading

List of Figures

Diagram 1.1: All Tritone Pairs in the Chromatic Scale

Diagram 2.1: Tritone Resolution in Dominant Seventh Chords

Diagram 3.1: Historical Timeline of the Tritone in Western Music

Diagram 4.1: Tritone Substitution: Shared Tritone Between V7 and \flat II7

Diagram 5.1: Key Works Featuring the Tritone Across Eras and Genres

Preface

Music theory is full of intervals, but few carry the weight of history that the tritone does. It has been called the devil's interval, banned from the choir loft, embedded in the heart of every dominant seventh chord, and unleashed on stadium crowds by heavy metal guitarists. No other interval has been feared, formalized, and celebrated so dramatically across so many centuries.

This monograph was written because the tritone deserves a focused, accurate, and accessible account—one that goes beyond the myths and into the music itself. The goal has been to produce a document that works equally well as an introduction for a student encountering the tritone for the first time and as a reference for a working composer who wants to deepen their understanding of how the interval functions across contexts.

The Museca Monograph Series is designed to produce concise, high-quality reference documents on core topics in music theory, history, and production. Each monograph in the series aims to be authoritative without being academic in the dry sense: clear prose, precise analysis, and practical application are the standards we hold ourselves to. *The Devil's Interval* is the second monograph in this series.

The document is organized in six sections. Sections 1 and 2 address the tritone's theoretical and acoustic properties, and its behavior in tonal harmony. Section 3 surveys the interval's history from medieval plainchant to the Romantic era. Section 4 examines the tritone across a range of musical styles—modern classical, jazz, Broadway, film, rock, and metal. Section 5 offers practical compositional guidance. Section 6 is a reference table of key works. A bibliography of recommended reading and key sources follows the conclusion.

A note on scope: this monograph focuses on the tritone in the Western musical tradition. The interval exists in non-Western music as

well, but treating those traditions with the care they deserve would require a separate volume. The scope here is intentionally focused.

Introduction

Few intervals in Western music carry as much theoretical weight, historical baggage, and expressive power as the **tritone**. Spanning exactly six semitones—precisely half an octave—the tritone occupies a unique position in the chromatic scale: it is the only interval that divides the octave into two equal parts. This symmetry gives it a quality of restlessness and ambiguity that has fascinated, frightened, and inspired musicians for over a thousand years.

Medieval theorists warned against it. They called it *diabolus in musica*—the devil in music—and singers were taught to avoid it in plainchant. Yet by the Baroque era, the very same interval had become the engine of tonal harmony, embedded in every dominant seventh chord, driving the cadences that define Western music. By the twentieth century, it had been embraced by jazz musicians as a tool for harmonic sophistication, by rock guitarists as a source of menace, and by film composers as a shorthand for tension and the supernatural.

This monograph traces the tritone from its origins in medieval theory through its evolving role in harmony, melody, and composition. It examines how the interval works acoustically and theoretically, how it resolves, and why it sounds the way it does. It surveys the tritone's presence across genres—from Bach chorales to Black Sabbath, from Debussy's impressionism to Bernstein's Broadway—and explores advanced topics including tritone substitution, the tritone paradox, and the Petrushka chord.

The goal is not to be exhaustive but to be clear, precise, and useful: a focused reference that a student, composer, or curious musician can turn to for both understanding and inspiration.

1. Theoretical Construction and Acoustic Properties

1.1 Defining the Tritone

A **tritone** is a musical interval spanning **three whole tones** (hence the name tri-tone), equivalent to six semitones or half steps. It sits exactly halfway through the octave.

The tritone can be named in two enharmonically equivalent ways:

- **Augmented fourth (A4):** when spelled as a widened perfect fourth (e.g., C–F#)
- **Diminished fifth (d5):** when spelled as a narrowed perfect fifth (e.g., C–Gb)

Both sound identical in equal temperament but carry different voice-leading implications.

1.2 All Tritone Pairs

Because the tritone divides the octave symmetrically, there are only six unique tritone pairs in the chromatic scale. Each note has exactly one tritone partner:

Note 1	Note 2	Semitones	Interval Name	Distance
C	F#/Gb	6	Augmented 4th	3 whole tones
D	G#/Ab	6	Augmented 4th	3 whole tones
E	A#/Bb	6	Augmented 4th	3 whole tones
F	B	6	Augmented 4th	3 whole tones

Note 1	Note 2	Semitones	Interval Name	Distance
G	C#/Db	6	Augmented 4th	3 whole tones
A	D#/Eb	6	Augmented 4th	3 whole tones

Diagram 1.1: All Tritone Pairs in the Chromatic Scale

1.3 Acoustic Properties

The tritone's distinctive sound arises from its frequency ratio. In equal temperament, the ratio between two notes a tritone apart is exactly $\sqrt{2}:1$ (approximately 1.414:1). This irrational ratio means the two pitches do not align neatly in the harmonic series, producing a sensation of instability and tension.

In just intonation, the augmented fourth is tuned to a ratio of 45:32 and the diminished fifth to 64:45. Neither is a simple ratio, which is why the interval has been perceived as dissonant across cultures and centuries.

Key acoustic characteristics of the tritone include: **maximum dissonance** among diatonic intervals, **tonal ambiguity** (it does not clearly imply a key center), and **symmetrical division** of the octave, creating a sense of being suspended between two poles.

1.4 The Tritone in the Major Scale

In any major scale, there is exactly one naturally occurring tritone: between the **4th and 7th scale degrees**. In C major, this is the interval F–B. This tritone is structurally critical—it is the source of tension in the dominant seventh chord and the driving force behind tonal resolution.

2. The Tritone in Harmony, Voice Leading, and Resolution

2.1 The Dominant Seventh Chord

The tritone's most fundamental harmonic role is inside the **dominant seventh chord (V7)**. In the key of C major, the dominant seventh is G7, spelled G–B–D–F. The interval between B (the 3rd) and F (the 7th) is a tritone.

This internal tritone creates intense harmonic tension that demands resolution. The two tritone tones resolve by contrary motion:

- B (leading tone) resolves up by half step to C (tonic)
- F (seventh) resolves down by half step to E (third of tonic)

This contrary motion is the most powerful cadential gesture in tonal music. It is what makes the V7–I progression feel so conclusive.

Tritone Note 1	Resolves To	Tritone Note 2	Resolves To
B (leading tone)	C (tonic)	F (7th)	E (3rd)
F# (leading tone)	G (tonic)	C (7th)	B (3rd)
E (leading tone)	F (tonic)	Bb (7th)	A (3rd)

Diagram 2.1: Tritone Resolution in Dominant Seventh Chords

2.2 Voice-Leading Principles

The tritone's voice-leading behavior follows consistent rules:

- An **augmented fourth (A4)** tends to resolve **outward** to a major or minor sixth.
- A **diminished fifth (d5)** tends to resolve **inward** to a major or minor third.

These tendencies arise from the half-step pull of each tone toward its resolution target. Composers from Bach to Brahms relied on these voice-leading rules to create smooth, logical harmonic progressions.

2.3 The Tritone and Cadential Function

Because the tritone appears in every dominant seventh chord, it is present in virtually every authentic cadence in tonal music. The resolution of the tritone is, in effect, what makes a cadence sound final. Without it, the harmonic motion from dominant to tonic would lack its characteristic sense of arrival.

This is why J.S. Bach's chorales—a cornerstone of harmony pedagogy—are filled with tritone resolutions. In the final cadence of the chorale *Ach Gott, vom Himmel sieh darein* (BWV 2), the soprano B resolves to C while the alto F resolves to E, a textbook tritone resolution within a V7–I cadence.

► [Watch: Bach Chorale BWV 2 – Netherlands Bach Society \[Timestamp: Final cadence\]](#)

2.4 The Tritone in Minor Keys

The previous sections have addressed the tritone primarily in the context of the major scale and major-key dominant harmony. But the tritone plays an equally important—and more varied—role in minor-key music, where it appears in several distinct harmonic formations.

In **natural minor** (the Aeolian mode), the tritone falls between the 2nd and 6th scale degrees. In A natural minor, this is the interval B–F, the same tritone pair as in C major—a consequence of the two scales sharing the same key signature. However, the tritone does not function as a dominant-seventh driver in natural minor, because the 7th scale degree is not raised and there is no leading tone pulling toward the tonic.

Harmonic minor resolves this by raising the 7th scale degree by a semitone. In A harmonic minor, the raised 7th is G#, creating a new

tritone between the 4th degree (D) and the raised 7th (G \sharp). This is the same tritone-resolving mechanism as in major: D–G \sharp is the tritone within the dominant seventh chord (E7 in A minor: E–G \sharp –B–D), which resolves to the tonic A minor triad. Harmonic minor thus preserves the tritone's function as the engine of cadential resolution—even in minor keys.

The **diminished seventh chord** (vii $^{\circ}$ 7 in minor) is another tritone-rich structure unique to minor harmony. Built on the raised 7th degree, it contains not one but two tritones stacked a minor third apart. In A harmonic minor, the leading-tone diminished seventh chord is G \sharp –B–D–F, with tritones between G \sharp and D, and between B and F. Because the diminished seventh chord divides the octave into four equal parts, it is symmetrical in the same way as the tritone itself—it can resolve enharmonically to any of four different tonic chords, making it one of the most harmonically ambiguous and dramatically powerful chords in tonal music.

Romantic composers exploited this ambiguity extensively. Schubert, Chopin, and Liszt all used the diminished seventh's tritone pairs as pivots for sudden key changes, often shifting between tonally distant keys by reinterpreting which of the chord's notes served as the leading tone. The chord's two embedded tritones gave them multiple harmonic escape routes from any given key, making the diminished seventh—and by extension the tritone—a primary tool of Romantic harmonic mobility.

Understanding the tritone in minor thus requires distinguishing between its natural minor occurrence (where it lacks strong dominant function) and its harmonic minor occurrence (where it drives resolution as forcefully as in major). The diminished seventh chord extends this further, giving the tritone a structural versatility in minor-key harmony that has no parallel in the major system.

3. History and Cultural Perspectives

Period	Era	Role of the Tritone
9th–13th c.	Medieval	Feared and avoided; the term <i>diabolus in musica</i> applied later (18th c.)
14th–16th c.	Renaissance	Controlled through counterpoint rules; used as passing dissonance
17th–18th c.	Baroque	Essential in dominant 7th chords; engine of tonal harmony
18th–19th c.	Classical	Exploited for dramatic color and structural contrast
19th c.	Romantic	Expressive/chromatic power; Tristan chord; demonic symbolism
Late 19th–early 20th c.	Early Modern	Symmetry, color, bitonality (Debussy, Stravinsky, Bartók)
1920s–present	Jazz	Tritone substitution; a harmonic workhorse
1950s–present	Popular/Film	Emotional symbol in Broadway, rock, metal, film scores

Diagram 3.1: Historical Timeline of the Tritone in Western Music

3.1 Medieval Origins: Diabolus in Musica

In medieval music theory (9th–13th centuries), the tritone was considered the most dangerous interval. Theorists including Guido of Arezzo (11th century) warned against it in plainchant because it resisted smooth melodic resolution. The problematic tritone in medieval chant was specifically the interval B natural to F. To avoid it, singers employed *musica ficta*—unwritten accidentals, most commonly flattening B to B \flat . This practice gave rise to the B-flat as a standard accidental in Western notation.

Note on terminology: The famous label *diabolus in musica* (“the devil in music”) is most securely documented from the early 18th century. Johann Joseph Fux cited the phrase “*Mi contra fa est diabolus in*

musica” in his 1725 counterpoint treatise *Gradus ad Parnassum*. While Guido of Arezzo and later theorists strongly discouraged the tritone for practical and musical reasons, no medieval manuscript has yet been found using the exact phrase. The association of the interval with the devil belongs to later tradition—though the avoidance of the tritone itself clearly stretches back to the 9th century.

It is worth noting that the “ban” on the tritone was never a formal ecclesiastical prohibition. It was a practical guideline for smooth singing, not a theological decree. Nevertheless, the association with the devil persisted and entered popular mythology.

▶ [Watch: Gregorian Chant – Monks of the Abbey of Solesmes \[Timestamp: 0:00\]](#)

3.2 Renaissance: Controlled Dissonance

As polyphony developed, the tritone became manageable through strict **counterpoint rules**. Composers like Palestrina avoided exposed tritone leaps but used the interval as a **passing dissonance**, carefully resolving it by stepwise motion.

In Palestrina’s *Missa Papae Marcelli* (1567), tritones appear briefly in the voice parts but are always resolved within the prevailing contrapuntal framework. The tritone was not forbidden—it was tightly controlled.

▶ [Watch: Palestrina: Missa Papae Marcelli – The Tallis Scholars \[Timestamp: Kyrie, 0:25–0:35\]](#)

3.3 Baroque: The Tonal Engine

The Baroque era (1600–1750) transformed the tritone from a problem into a **structural necessity**. With the establishment of tonal harmony and the dominant seventh chord, the tritone became the core dissonance driving resolution to the tonic. Every authentic cadence in Bach, Handel, and Vivaldi relies on it.

J.S. Bach's chorales are a masterclass in tritone resolution. The tritone between the leading tone and the seventh of the dominant chord resolves by contrary motion to the tonic triad, creating the strongest possible sense of harmonic closure.

3.4 Classical and Romantic Eras

In the Classical period, composers like Mozart and Beethoven used the tritone not only for cadential function but for **dramatic coloring**. The opening of Mozart's *Don Giovanni* overture (1787) uses tritone-infused D minor chords to foreshadow the opera's dark conclusion. Beethoven employed tritone key relationships (e.g., C minor to G \flat major) in the development section of his Symphony No. 5.

▶ [Watch: Mozart: Don Giovanni Overture – Berliner Philharmoniker / Karajan \[Timestamp: 0:00–0:20\]](#)

▶ [Watch: Beethoven: Symphony No. 5 – Berliner Philharmoniker \[Timestamp: Development section\]](#)

The Romantic era expanded the tritone's role from functional to **expressive and symbolic**. Wagner's *Tristan und Isolde* (composed 1857–1859; premiered 1865) opens with the famous **Tristan chord** (F–B–D \sharp –G \sharp), which contains a tritone between F and B. This chord famously refuses to resolve in a traditional cadence, stretching tonal boundaries and pointing toward the dissolution of functional harmony.

▶ [Watch: Wagner: Tristan und Isolde, Prelude – Barenboim / Berliner Philharmoniker \[Timestamp: 0:00–0:15\]](#)

Liszt used tritone-based progressions for visionary and demonic effects in works like the *Mephisto Waltz No. 1*, where tritone leaps evoke the diabolical subject matter. Berlioz's *Symphonie fantastique* deploys the tritone prominently in the “Dies irae” theme of its final movement, using the interval for grotesque coloring.

▶ [Watch: Liszt: Mephisto Waltz No. 1 – Valentina Lisitsa \[Timestamp: Opening\]](#)

▶ [Watch: Berlioz: Symphonie fantastique, Mvt. 5 – London Symphony Orchestra \[Timestamp: Dies irae theme\]](#)

4. The Tritone Across Musical Styles

4.1 Early Modernism: Symmetry and Color

Claude Debussy

Prélude à l'après-midi d'un faune (1894) uses tritone inflections in the opening flute line not for tension or resolution, but for **sensual ambiguity**. Debussy treated the tritone as a color rather than a dissonance to be resolved, pointing the way toward non-functional harmony.

► [Watch: Debussy: *Prélude à l'après-midi d'un faune* – Royal Concertgebouw Orchestra \[Timestamp: 0:00–0:30\]](#)

Igor Stravinsky

Stravinsky's *Petrushka* (1911) introduced the famous **Petrushka chord**: two major triads a tritone apart (C major + F# major) sounded simultaneously. The resulting bitonal clash—C–E–G layered with F#–A#–C#—creates a harsh, unstable sonority that represents the puppet Petrushka himself: grotesque, tragic, and caught between two worlds.

The Petrushka chord is significant because it treats the tritone not as a linear interval to be resolved, but as a structural relationship between two key centers. It became a hallmark of bitonality and influenced later composers exploring polytonality and symmetrical structures, including Bartók, Prokofiev, and Milhaud.

► [Watch: Stravinsky: *Petrushka* – Royal Concertgebouw Orchestra / Chailly \[Timestamp: Shrovetide Fair, 2:00–2:30\]](#)

Béla Bartók

Bartók's *Music for Strings, Percussion and Celesta* (1936) uses **tritone axis symmetry** as a structural principle. The fugue subject in the first movement expands outward from A, reaching its farthest point at E_b—a tritone away—before returning. The tritone here is not a chord or a melody but an architectural axis.

► [Watch: Bartók: Music for Strings, Percussion and Celesta – Budapest Festival Orchestra \[Timestamp: Mvt. 1 fugue\]](#)

4.2 Jazz: The Tritone Substitution

Jazz musicians discovered that any dominant seventh chord can be replaced by another dominant seventh chord whose root is a tritone away. This works because both chords share the same tritone between their 3rd and 7th. For example, G7 (with tritone B–F) can be substituted with D_b7 (with tritone F–C_b, enharmonically B–F).

Original V7	Tritone Sub	Tritone (Original)	Tritone (Sub)
G7	D _b 7	B–F	F–C _b (= B–F)
C7	G _b 7	E–B _b	B _b –F _b (= E–B _b)
D7	A _b 7	F _# –C	C–G _b (= F _# –C)

Diagram 4.1: Tritone Substitution: Shared Tritone Between V7 and *b*II7

This substitution creates a **chromatic bass line** (e.g., D_b–C instead of G–C) that became a defining feature of bebop and modern jazz. Charlie Parker's *Blues for Alice* (1951) uses tritone substitutions extensively in its chord progression. Pianists like Thelonious Monk exploited raw tritone dissonances for percussive, biting effects.

► [Watch: Charlie Parker: Blues for Alice – Live Performance \[Timestamp: 0:40–0:55\]](#)

4.3 Broadway and Film

Leonard Bernstein: *West Side Story*

The opening interval of “Maria” from *West Side Story* (1957) is a rising tritone on the syllables “Ma-ri-a,” leaping from the tonic to the augmented fourth. The tritone symbolizes forbidden love—a beautiful melody built on the “devil’s interval.” Bernstein uses the tritone as a recurring motif throughout the score: it appears in the Prologue, in “Cool,” and even in “Gee, Officer Krupke.”

▶ [Watch: *West Side Story: Maria* – 1961 Film \[Timestamp: 0:00–0:10\]](#)

Film Scores

Hans Zimmer’s score for *The Dark Knight* (2008) uses rising Shepard tones built on tritone motives for the Joker’s theme, creating a sense of endlessly ascending tension. Danny Elfman’s *The Simpsons Theme* (1989) uses quirky tritone leaps to create the show’s characteristic off-kilter, cartoonish instability.

▶ [Watch: *Hans Zimmer: The Dark Knight – Joker Theme* \[Timestamp: Opening drone\]](#)

▶ [Watch: *Danny Elfman: The Simpsons Theme* – Official \[Timestamp: 0:00\]](#)

4.4 Rock and Metal

Black Sabbath’s self-titled song (1970) opens with one of the most famous riffs in rock history, built on a **G–C# tritone**. Tony Iommi reportedly drew inspiration from Gustav Holst’s “Mars, the Bringer of War” from *The Planets*. The result cemented the tritone as the sonic signature of heavy metal, often called “the devil’s interval” in popular culture.

▶ [Watch: *Black Sabbath: Black Sabbath* – Official Audio \[Timestamp: 0:00–0:20\]](#)

Jimi Hendrix's "Purple Haze" (1967) opens with a riff centered on the **E–B \flat tritone**, giving the song its edgy, dissonant character. Marilyn Manson's "The Beautiful People" and Slayer's "Bitter Peace" similarly exploit the tritone's menacing quality.

▶ [Watch: Jimi Hendrix: Purple Haze – Official Audio \[Timestamp: 0:00–0:10\]](#)

5. Compositional Applications and Techniques

5.1 Using the Tritone for Tension and Release

The most fundamental compositional use of the tritone is creating tension that resolves. Practical techniques include:

- **Dominant seventh resolution:** Place a tritone within a V7 chord and resolve both tones by half step in contrary motion to the tonic triad.
- **Deceptive resolution:** After establishing tritone tension, resolve to an unexpected chord (e.g., V7 to vi) for surprise.
- **Prolonged suspension:** Delay tritone resolution (as Wagner does in Tristan) to build extended harmonic tension.

5.2 Tritone Substitution in Practice

To apply tritone substitution in composition or arrangement:

- Identify any dominant seventh chord in a progression.
- Replace it with a dominant seventh chord whose root is a tritone away.
- The 3rd and 7th of the original chord become the 7th and 3rd of the substitute.
- The bass line gains chromatic motion, adding sophistication to the harmonic rhythm.

Example: In the progression Dm7–G7–Cmaj7, substitute D \flat 7 for G7 to get Dm7–D \flat 7–Cmaj7. The bass descends chromatically: D–D \flat –C.

5.3 Melodic Uses

Tritone leaps in melody create instant dramatic effect:

- **Yearning:** Bernstein's rising tritone on "Maria" expresses longing.
- **Menace:** Black Sabbath's tritone riff conveys dread.
- **Humor/quirk:** Elfman's Simpsons theme uses the tritone for comic instability.

When writing tritone leaps, consider the surrounding context: a tritone approached by step and left by step integrates smoothly; a tritone attacked by leap from both sides creates maximum disruption.

5.4 Structural and Symmetrical Uses

Because the tritone divides the octave exactly in half, it can serve as a structural axis:

- **Bartók's axis system:** Tonal centers a tritone apart function as opposing poles (e.g., C and F# as tonic and anti-tonic).
- **Messiaen's modes of limited transposition:** The tritone's symmetry is built into modes like Mode 2 (octatonic scale), which repeats at the tritone.
- **Twelve-tone rows:** Serial composers (Schoenberg, Webern) used the tritone as a structural axis within tone rows.

5.5 The Tritone Paradox

First described by psychologist Diana Deutsch in 1986, the **tritone paradox** is an auditory illusion involving Shepard tones—computer-generated tones that blend multiple octaves, creating an impression of infinite pitch. When two Shepard tones a tritone apart are played in sequence, listeners disagree on whether the pitch goes up or down.

Deutsch found that perception correlates with the listener's native language and regional dialect. This suggests that pitch perception is not purely physical but is influenced by cognition, memory, and culture.

For composers, the tritone paradox demonstrates the interval's inherent ambiguity—a property that can be exploited for experimental or surreal effects, creating “uncertain” pitch movement.

6. Key Works Featuring the Tritone

Composer/Artist	Work	Era/Genre	Tritone Usage
Gregorian Chant	Liber Usualis	Medieval	F–B tritone avoided via musica ficta
Palestrina	Missa Papae Marcelli	Renaissance	Tritone as passing dissonance
J.S. Bach	Chorale BWV 2	Baroque	V7 tritone driving resolution
Mozart	Don Giovanni Overture	Classical	Ominous tritone coloring
Wagner	Tristan und Isolde (prem. 1865)	Romantic	Tristan chord; unresolved tritone
Liszt	Mephisto Waltz No. 1	Romantic	Demonic tritone leaps
Debussy	Prélude à l'après-midi d'un faune	Impressionist	Tritone for tonal ambiguity
Stravinsky	Petrushka	Modern	Petrushka chord: bitonality
Bartók	Music for Strings, Perc. & Celesta	Modern	Tritone axis symmetry
Charlie Parker	Blues for Alice (1951)	Jazz	Tritone substitution in bebop
Bernstein	West Side Story – "Maria"	Musical Theatre	Melodic tritone leap
Black Sabbath	Black Sabbath	Metal	Tritone riff: G–C#
Hendrix	Purple Haze	Rock	Riff built on E–Bb tritone
Hans Zimmer	The Dark Knight	Film	Rising tritone motives (Joker)
Danny Elfman	The Simpsons Theme	Film/TV	Quirky tritone leaps

Diagram 5.1: Key Works Featuring the Tritone Across Eras and Genres

Bibliography and Further Reading

The following sources informed this monograph and are recommended for readers wishing to explore the tritone and its musical contexts in greater depth. Entries are organized by category.

I. Music Theory — Core Texts

*Aldwell, Edward, and Carl Schachter. **Harmony and Voice Leading.** 4th ed. Cengage Learning, 2011. The standard American undergraduate harmony text; extensive coverage of tritone resolution, dominant seventh chords, and voice leading principles.*

*Piston, Walter. **Harmony.** 5th ed., revised by Mark DeVoto. Norton, 1987. Classic reference for diatonic and chromatic harmony, with clear treatment of the tritone's role in tonal progressions.*

*Schoenberg, Arnold. **Structural Functions of Harmony.** Norton, 1969. Schoenberg's own account of how harmonic tension—including the tritone—drives tonal and post-tonal music.*

*Forte, Allen. **The Structure of Atonal Music.** Yale University Press, 1973. Essential for understanding the tritone's role in twelve-tone and post-tonal contexts discussed in §5.4.*

II. History and Musicology

*Fux, Johann Joseph. **Gradus ad Parnassum** (1725). Trans. Alfred Mann. Norton, 1965. The source of the formalized “Mi contra fa est diabolus in musica” principle. Essential primary source for the historical discussion in §3.1.*

*Taruskin, Richard. **The Oxford History of Western Music.** 6 vols. Oxford University Press, 2005. The most comprehensive English-language*

history of Western music; covers all periods and composers discussed in this monograph.

*Grout, Donald J., and Claude V. Palisca. **A History of Western Music.** 9th ed. Norton, 2019. Standard music history survey; useful context for the medieval and Renaissance sections.*

*Ross, Alex. **The Rest Is Noise: Listening to the Twentieth Century.** Farrar, Straus and Giroux, 2007. Excellent narrative account of 20th-century music, covering Stravinsky, Bartók, and beyond.*

III. Acoustics and Perception

*Deutsch, Diana. "A Musical Paradox." **Music Perception** 3, no. 3 (1986): 275–280. The original paper introducing the tritone paradox, referenced in §5.5.*

*Deutsch, Diana, ed. **The Psychology of Music.** 3rd ed. Academic Press, 2013. Comprehensive reference on music perception and cognition, including chapters on interval perception and auditory illusions.*

*Helmholtz, Hermann. **On the Sensations of Tone** (1863). Trans. Alexander J. Ellis. Dover, 1954. Foundational acoustic text; the basis for understanding why the tritone's frequency ratio produces dissonance.*

IV. Jazz and Popular Music

*Levine, Mark. **The Jazz Theory Book.** Sher Music, 1995. The most widely used jazz theory reference; extensive chapters on tritone substitution, ii–V–I progressions, and bebop harmony.*

*Rawlins, Robert, and Noël Racine. **Jazzology: The Encyclopedia of Jazz Theory for All Musicians.** Hal Leonard, 2005. Clear treatment of tritone substitution and its practical application in jazz improvisation and arranging.*

*Walser, Robert. **Running with the Devil: Power, Gender, and Madness in Heavy Metal Music.** Wesleyan University Press, 1993. Scholarly*

treatment of the tritone's cultural role in metal and rock, including discussion of Black Sabbath.

V. Online and Digital Resources

Grove Music Online (Oxford Music Online).

[oxfordmusiconline.com](https://www.oxfordmusiconline.com)

The standard scholarly music reference; entries on "Tritone," "Dissonance," "Modes," and individual composers cited in this monograph.

Deutsch, Diana. Tritone Paradox demonstration.

deutsch.ucsd.edu/psychology

Audio examples and explanatory materials for the tritone paradox from the researcher who discovered it.

Museca Monograph Series.

museca.org

Additional titles in this series, including production guidelines, genre definitions, and music theory reference monographs.

Conclusion

The tritone's history is one of transformation. From forbidden dissonance to harmonic engine, from romantic symbol to modernist architecture, from jazz workhorse to rock menace—no other interval has traveled so far across the landscape of Western music.

Several threads emerge from this survey:

- **The tritone is structurally unique.** As the only interval that bisects the octave, it occupies a singular position in the pitch system—simultaneously unstable and perfectly symmetrical.
- **Its meaning is context-dependent.** The same interval that medieval monks avoided is the backbone of every dominant seventh chord. The same dissonance that Bernstein used for romance, Black Sabbath used for dread.
- **It bridges theory and perception.** The tritone paradox reminds us that how we hear this interval is shaped not only by acoustics but by cognition and culture.
- **It remains compositionally vital.** Whether through tritone substitution in jazz, bitonality in orchestral music, or riff construction in rock, the tritone continues to generate new musical possibilities.

To study the tritone is to study the history of Western harmony itself. It is an interval that has been feared, mastered, exploited, and celebrated—and it remains, after a millennium of use, as potent and provocative as ever.