

UCLA

UCLA Electronic Theses and Dissertations

Title

Those Great Inspirers: The Tactile Compositional World of Igor Stravinsky

Permalink

<https://escholarship.org/uc/item/5t93d8v9>

Author

Brown, Kenneth Glendon

Publication Date

2021

Peer reviewed|Thesis/dissertation

UNIVERSITY OF CALIFORNIA

Los Angeles

Those Great Inspirers:

The Tactile Compositional World Of Igor Stravinsky

A dissertation submitted in partial satisfaction of the
requirements for the degree Doctoral of Philosophy
in Music

by

Kenneth Glendon Brown

2022

© Copyright by

Kenneth Glendon Brown

2022

ABSTRACT OF THE DISSERTATION

Those Great Inspirers:
The Tactile Compositional World of Igor Stravinsky

by

Kenneth Glendon Brown

Doctor of Philosophy in Music

University of California, Los Angeles, 2022

Professor Richard Danielpour, Chair

All of Stravinsky's music is piano music. Despite Stravinsky's stunning innovations in instrumentation, orchestration, and timbre, the composer conceived his music *on* the keyboard and *through* the piano. Stravinsky did not simply compose at the piano; he left indelible *imprints* of the piano keyboard on all he composed. These imprints are of Stravinsky's unique physicality, his unusually large hands that "shaped" his sense of harmony at the keyboard. It is no exaggeration to say that Stravinsky left his fingerprints on every bar; as Charles Joseph writes, "Literally, Stravinsky's 'hand' is present as a distinguishing stylistic trait" throughout all his music.¹ This is one way to explain how Stravinsky's music, despite its breathtaking range,

¹ Charles M. Joseph, *Stravinsky Inside Out* (New Haven: Yale University Press, 2001), 281.

always sounds so clearly like *Stravinsky*: the piano is behind it all, and behind the piano, the composer's unique body. This corporeal duo forms the thread that runs through the composer's entire output. My dissertation will investigate this thread, examining its origins in Stravinsky's childhood and subsequent manifestations in Stravinsky's tactilely-guided innovations in harmony, timbre and musical texture. While Stravinsky presented himself as enigmatic, when it came to the piano he was clear: "I compose at the piano, and I do not regret it."² He described his compositional process as inextricable from his physical relationship with the piano keyboard: "Fingers are not to be despised: they are the great inspirers, and, in contact with a musical instrument, often give birth to subconscious ideas which might otherwise never come to life."³ Existing scholarship on Stravinsky has, if not despised, at least neglected to consider the fingers that created it. My dissertation aims to rectify this historical oversight; I will re-examine some of Stravinsky's music from the viewpoint of the composer's physicality at the piano keyboard as its primary generative force. I hope to show that much of what makes Stravinsky's music unique and memorable is its origin as physical impulses in the composer's body, and to continue to chart a fresh path of exploration into the composer's work.

² Igor Stravinsky, *An Autobiography* (New York: Norton, 1962), 5.

³ Stravinsky, *An Autobiography*, 82.

The dissertation of Kenneth Glendon Brown is approved.

Ian Krouse

Mitchell Morris

Kay Rhie

Richard Danielpour, Committee Chair

University of California, Los Angeles

2022

TABLE OF CONTENTS

Abstract	ii
List of Figures.	vi
Vita	vii
CHAPTER 1: Outline and Foundations	1
Outline.	1
Foundations	5
CHAPTER 2: Stravinsky the Pianist	10
Early Training.	10
Adult Career	14
CHAPTER 3: Hand-Memories	18
A Precedent Example	18
Addressing the Potential of Mere Chance	21
1913: The “Augurs Chord” and the <i>Pathétique</i> Sonata	24
1913: “Stravinsky’s Eleven” and Beethoven’s Op. 110 Piano Sonata	42
1924: <i>Concerto for Piano and Winds</i> and <i>Rhapsody in Blue</i>	48
1946: <i>Symphony in Three Movements</i> and Glinka’s <i>Ruslan</i>	55
CHAPTER 4: Unlikely Bedfellows? Stravinsky, Czerny, and Philipp	60
CHAPTER 5: “We Have to Touch the Music”	68
BIBLIOGRAPHY	74

LIST OF FIGURES

1. Sonority from Frederic Chopin, <i>Etude in A Minor</i> , Op. 10 No. 2.	19
2. Frederic Chopin, <i>Etude in A Minor</i> , Op. 10 No. 2, m. 1-2	19
3. Sonority from Alexander Scriabin, <i>Prelude</i> Op. 74 No. 4	19
4. Alexander Scriabin, <i>Prelude</i> Op. 74 No. 4, final measures	20
5. Igor Stravinsky, <i>Rite of Spring: The Augurs of Spring</i> , m. 1-2	28
6. Narcis Bonet, <i>The Fundamental Principles of Harmony</i> , p. 9	29
7. Ludwig van Beethoven, Piano Sonata Op. 13, “ <i>Pathétique</i> ”, mvt. 2	30
8. Chord extract, Ludwig Van Beethoven, Piano Sonata Op. 13	31
9. Karlheinz Stockhausen, <i>Klavierstück IX</i>	32
10. Ludwig van Beethoven, Piano Sonata Op. 13, “ <i>Pathétique</i> ”, mvt.2	34
11. Chord extracts, Beethoven and Stravinsky	34
12. Metric modulation	35
13. Igor Stravinsky, <i>Rite of Spring: The Augurs of Spring</i> (sketch)	40
14. Ludwig Van Beethoven, Piano Sonata Op. 13, “ <i>Pathétique</i> ”, mvt. 1	41
15. Igor Stravinsky, <i>Rite of Spring: The Augurs of Spring</i>	41
16. Ludwig Van Beethoven, Piano Sonata Op. 13, “ <i>Pathétique</i> ”, mvt.1	41
17. Igor Stravinsky, <i>Rite of Spring: The Ritual of the Abduction</i>	42
18. Ludwig van Beethoven, Piano Sonata Op. 110, mvt. 3, m. 131-136	44
19. Ludwig van Beethoven, Piano Sonata Op. 110, mvt. 3, m. 130-136	44
20. Ludwig van Beethoven, Piano Sonata Op. 110, mvt. 3, m. 132-135	45
21. Ludwig van Beethoven, Piano Sonata Op. 110, mvt. 3, m. 132-134	45
22. Igor Stravinsky, <i>Rite of Spring: Mystic Circle of the Young Girls</i> , m. 104	46
23. Chord extracts, Beethoven and Stravinsky	47
24. Chord extracts, Beethoven and Stravinsky	47
25. Igor Stravinsky, <i>Concerto for Piano and Winds</i> , mvt. 1, reh. 5	49
26. George Gershwin, <i>Rhapsody in Blue</i> , m. 370-377	49
27. George Gershwin, <i>Rhapsody in Blue</i> , m. 394-403	50
28. Igor Stravinsky, <i>Concerto for Piano and Winds</i> , mvt. 1, reh. 19	50
29. Igor Stravinsky, <i>Concerto for Piano and Winds</i> , mvt. 1, reh. 49	50
30. Igor Stravinsky, <i>Concerto for Piano and Winds</i> , mvt. 2, reh. 76	51
31. George Gershwin, <i>Rhapsody in Blue</i> , m. 176-179	51
32. Igor Stravinsky, <i>Concerto for Piano and Winds</i> , mvt. 2, reh. 17	52
33. George Gershwin, <i>Rhapsody in Blue</i> , m. 370-373	52
34. Mikhail Glinka, <i>Rusland and Lyudmila</i> , Overture	56
35. Mikhail Glinka, <i>Rusland and Lyudmila</i> , Overture	57
36. Igor Stravinsky, <i>Symphony in Three Movements</i> , mvt. 1, reh. 8	58
37. Dmitri Shostakovich, <i>Piano Concerto No. 2</i> , mvt. 3	62
38. Charles-Louis Hanon, <i>The Virtuoso Pianist</i> , No. 2	63
39. Isidor Philip, <i>Exercises for the Independence of the Fingers</i> , Nos. 1, 2a, 3, 5, 17, 21	65
40. MariyaZ, Photograph of Roman Kumlyk playing the cimbalon	69

VITA

Born on Valentine’s Day in 1992, Kenneth Glendon Brown is a composer, pianist and multi-instrumentalist, conductor and teacher of music.

Kenneth’s musical compositions, described by Alex Ross in the *New Yorker* as “strongly imagined... rich with dreamy textures,” are marked by their clear, melodic lyricism and a rich, sonorous tonal idiom; his music has been performed by such ensembles as the Russian String Orchestra, the Moscow Contemporary Music Ensemble, the Momenta Quartet, Yarn/Wire, and many more.

In addition to composing, Kenneth is an accomplished pianist, having served as the pianist and organist at Panorama Presbyterian Church since 2019, the pianist for UCLA’s ballet program, and regularly performs his own compositions in concert, as well as works from the classical repertoire. He also plays organ, violin, viola, and classical guitar, and has conducted chamber orchestras in performances of his own compositions.

A dedicated educator to students of all ages, Kenneth teaches both classroom classes and private lessons in piano, composition, and music theory. He holds a B.M. from Temple University and an M.A. from UCLA.

Kenneth’s music can be heard on his website, kennethglendonbrown.com.

CHAPTER 1: OUTLINE AND FOUNDATIONS

OUTLINE

“It’s frustrating to discover that [Stravinsky] has said it all,” complains Roger Shattuck, writing as the fictional Patrick Cartnell in *The Devil’s Dance: Stravinsky’s Corporal Imagination*: “He talked too much and too well for our own good. There’s nothing left to do but collate.”⁴ Indeed, I have found that Stravinsky has already written my outline, in his 1936 *An Autobiography*:

I asked [Rimsky-Korsakov] whether I was right in always composing at the piano. “Some compose at the piano,” he replied, “and some without a piano. As for you, you will compose at the piano.” As a matter of fact, I do compose of the piano, and I do not regret it. I go further; I think it is a thousand times better to compose in direct contact with the physical medium of sound and work in the abstract medium produced by one’s imagination.⁵

In brief, this dissertation explores Stravinsky’s process of composing at the piano: the why, how, and what. The *why* begins with what Stravinsky has already told us here: the significance of Stravinsky being “in direct contact with the physical medium of sound.” The *how*, a slightly more challenging task, relies not simply on Stravinsky’s own words but creative reconstruction of how the composer’s piano playing mechanism (hands, arms, feet, and in Stravinsky’s case, his entire body) combined with his particular impulses and performative habits to create his unique approach to composition. Finally, *what* was the effect of Stravinsky’s having always worked at the piano upon the music that he composed? Did this fact have an appreciable effect on his

⁴ Roger Shattuck, “The Devil’s Dance: Stravinsky’s Corporal Imagination,” in *Confronting Stravinsky* (Los Angeles: University of California Press, 1986), 85.

⁵ Stravinsky, *An Autobiography*, 5.

music, and it is one that we can discover? When he spoke of how “a composer improvises aimlessly the way an animal grubs about... in expectation of our pleasure, guided by our scent,”⁶ we can infer that he was extrapolating from his own experience, and, of course, his experience improvising at the keyboard. Is it possible to get a whiff of the “scent” that might have guided Stravinsky’s compositional improvisation, as it were, before that scent was recorded on the score? The first step will be to introduce the salient works of scholarship upon which this thesis is built, a task which commences at the end of this chapter.

Chapter 2, “Stravinsky the Pianist,” takes after Charles Joseph’s and Graham Griffiths’s studies by collating the available relevant information about Stravinsky’s childhood musical exposures and training, and forensically re-creating the pedagogical environment in which Stravinsky, the young pianist, would have been brought up.

In Chapter 3, “Hand-Memories,” I introduce the concept, which was suggested to me by Roger Shattuck’s phrase “the thinking body,” of unconscious muscle-memory patterns “programmed” into the composer’s hands by repeated practice. This chapter weaves together findings from existing neurological research on the effects of instrumental practice on motor-neural pathways, with superimpositions of several composers’ piano works to demonstrate how some piano-based composers may, in the act of composition, unintentionally re-play fragments of existing music and write down some version of that muscle memory, or “hand memory,” in their own music. I will use this thought experiment to suggest how some of Stravinsky’s innovations in harmony may have arisen from his own possible “hand-memories.”

⁶ Igor Stravinsky, *Poetics of Music: In the Form of Six Lessons* (Cambridge: Harvard University Press, 2003), 55.

Chapter 4, “Unlikely Bedfellows? Stravinsky, Czerny, and Philipp” bridges a little-acknowledged but close gap between Stravinsky’s neo-classical style—especially the works for solo piano and for piano and orchestra—and the “finger exercise” composers with which the composer was well acquainted.

In reading Stravinsky’s own words, as well as his printed dialogues with Robert Craft, one repeatedly identifies Stravinsky’s conviction that a composer’s music ought to be appreciated on its own terms, without having “interpretation” foisted upon it and without speculation as to the composer’s “intentions,” a typical statement being as follows:

All these misunderstandings arise from the fact that people will always insist upon looking in music for something that is not there. The main thing for them is to know what the piece expresses, and what the author had in mind when he composed it. They never seem to understand that music has an entity of its own apart from anything that it may suggest to them.⁷

Thus it appears that any scholarly investigation into Stravinsky’s music is rife with peril, doomed from the start to proceed in spite of the composer’s ire. As Richard Taruskin points out in the opening of his monumental study on Stravinsky’s Russian musical heritage: “It is evident that investigations such as that undertaken here will lead in directions of which the older Stravinsky would have strongly disapproved, both as to tendency and as to method.”⁸ Yet he concludes that a fuller understanding of the composer’s music must encompass various contexts in which the music came into being: “One must cast a wide net, heeding seriously Robert Craft’s call for investigations into ‘the genesis of Stravinsky’s subject matter.’”⁹ For my own part, I will banish

⁷ Stravinsky, *An Autobiography*, 162–163.

⁸ Taruskin, Richard. *Stravinsky and the Russian Traditions*. Berkeley: University of California Press, 1996.

⁹ *Ibid.*

the composer's reproachful ghost with the caution that some of the following side-by-side musical comparisons should not be construed as inviting accusations of uncreative borrowing, but rather proceed in the spirit of inquiring as to what the composer had in his mind—or better, in his hands—when he composed his music. My hope is to demonstrate how Stravinsky's latent musical motor-neural pathways—the muscle-memories of previously learned music—may have participated in the creation of such original and daring music. Demonstrating such links may not only further the possibilities for exploration into the composer's music, but also encourage composers to place even deeper trust and faith in their own ability to generate fresh material through their own latent instincts and intuitions. Louis Andriessen claimed that, for twenty-first-century composers, the true influence of Stravinsky was just beginning.¹⁰ I agree this claim, but while Andriessen's premise was centered on Stravinsky's musical material, I would add to it the influence of Stravinsky's compositional *process*. That is, Stravinsky's influence on contemporary composers may be felt not just in the notes he put on the page, but the manner in which they got there. Based on my education and experience, it seems that more and more young composers feel disenchanting and disillusioned by compositional processes which are primarily “page-oriented,” and that young composers increasingly prefer to put their trust in their own intuition and instincts, guided, as Stravinsky put it, by their “scent.” As they should: in the pages that follow I will demonstrate how, for Stravinsky, this impulse-guided, piano-centered compositional process resulted in some of his most original ideas.

¹⁰ Louis Andriessen and Jonathan Cross, “Composing with Stravinsky,” in *The Cambridge Companion to Stravinsky* (Cambridge: Cambridge University Press, 2003).

FOUNDATIONS

Stravinsky's unique musical language arose from his relationship to the piano to a degree which has rarely been acknowledged in existing scholarship. While Stravinsky the composer can often be understood as a result of Stravinsky the pianist, Stravinsky scholarship largely privileges concepts and analysis suited to examination of the finished score or the composer's extant sketches. Indeed, Stravinsky's scores and manuscripts do present a dazzling cornucopia of what I call "page-oriented" scholarly material, and while many illuminating studies have examined these issues—such as his music's roots in Russian folk traditions, his various approaches to pitch organization, his innovations in rhythmic and metric practices, and so on—the role of the composer's fingers on the keyboard in generating, or at least guiding, all these issues has generally been ignored or relegated to footnotes. This dissertation traces Stravinsky's musical language back to its origin, the body and the keyboard, and, in doing so, will draw heavily upon the two landmark works of scholarship on this topic.

The first (though still recent) work to thoroughly investigate Stravinsky's relationship with the piano is Charles M. Joseph's 1983 book, *Stravinsky and the Piano*. In this truly unprecedented survey of the role the piano played in the composer's life, both as performer and as composer, Joseph makes the startling assertion that

the piano may be seen as the cornerstone of Stravinsky's formidable career. No other aspect of his life, perhaps not even ballet, so permeates the totality of his creative efforts and thus qualifies as a reliable barometer in considering his long and diversified life. Yet Stravinsky's association with the piano is one that has never been systematically explored.¹¹

¹¹ Charles M. Joseph, *Stravinsky and the Piano*, Russian Music Studies 8 (Ann Arbor: UMI Research Press, 1983), xvii.

Throughout the book, Joseph does a yeomen's job in analyzing various works from throughout the composer's career, and while he touches on works not involving the piano, Joseph maintains focus upon the composer's solo piano works and works that explicitly include the piano.

Joseph's analysis of Stravinsky's piano works and unique preferences regarding performance of these works will prove invaluable to my arguments, as I will draw upon Joseph's analyses of Stravinsky's "keyboard language" in examining Stravinsky's works which, while not explicitly involving the piano, nevertheless exhibit similar characteristic traits. In particular, the concluding chapter of Joseph's study—*The Piano as Stravinsky's Compositional "Fulcrum"*—points to potential further areas of exploration, and, as such, forms a starting point for many of my own concepts. I sometime quote Joseph at length, as his depth of insight and daringly original thinking in these pages is a foundation upon which this dissertation is built. Joseph has also written extensively on Stravinsky in other books which, due to their holistic examinations of the composer's life and work, and their unique insights into the composer's creative process, will also factor into this dissertation.

Writing a full three decades later, Graham Griffiths, in his 2013 book, *Stravinsky's Piano: Genesis of a Musical Language*, essentially echoes Joseph's statement above when Griffiths states that "[Scholarly] interest in pianistic issues... has been scarce."¹² Acknowledging Joseph's foundational work, Griffiths then extends further in exploring these "pianistic issues" by examining not only Stravinsky's piano works, but much of the composer's mature output,

¹² Graham Griffiths, *Stravinsky's Piano: Genesis of a Musical Language*, Music Since 1900 (Cambridge: Cambridge University Press, 2013), 190.

particularly his major stylistic pivot to neo-classicism, from the perspective of its composer's seemingly intentional interaction with pianistic traditions:

In grounding his compositional process upon a pedagogic rhetoric, i.e., by reformulating techniques attributable to the workshop of piano study, Stravinsky would build several neoclassical works upon familiar (to him) 'codes of (piano) practice.' Initially he would construct pianistic and instrumental genres. In due course, elements of pedagogical re-construction would be utilized in choral, operatic and symphonic contexts: for example in *Oedipus rex*, in *Mavra* and *The Rake's Progress*, and in the *Symphony of Psalms* and *Symphony in Three Movements*. In this way, the neoclassical canon reflects those disciplines and materials of piano study which Stravinsky first experienced in St Petersburg. In middle age, at the time of his pianistic career, he was to draw upon this early experience and use it as a point of reference—as a template from which to fashion a new idiom characterized by down-to-earth attitudes of work, craft and construction.¹³

Griffiths, like Joseph, begins with forensic examination of Stravinsky's early childhood musical training; he reconstructs the cultural and musical context of Stravinsky's upbringing in urban St Petersburg, his early exposure and love of the music of the Russian symphonic and operatic composers, and, most importantly, his relatively unguided first attempts at improvisation and subsequent first piano lessons. The scholarly rigor which Griffiths brings to bear, especially his detailed exegesis of Stravinsky's earliest musical exposures, his childhood piano training, and first compositional fragments, will prove tremendously valuable to my arguments in which I will attempt to bridge close readings of Stravinsky's music with hitherto un-considered potential sources of inspiration which the composer likely would have discovered at the piano.

Moving slightly away from considerations of Stravinsky and the piano, another crucial pillar of scholarship for my dissertation is Roger Shattuck's article *The Devil's Dance*:

¹³ Griffiths, *Stravinsky's Piano*, 8.

Stravinsky's Corporal Imagination, published in Jann Pasler's 1986 collection from the International Stravinsky Symposium, *Confronting Stravinsky*. Shattuck suggests that Stravinsky's music acts as a kind of surrogate for his imaginative world of the visual and the bodily, specifically, that he "composed to reveal the expressive resources of the body"¹⁴ and that he "was a dance musician with a choreographic imagination."¹⁵ Shattuck is careful to avoid characterizing this world as primary or above any other: "Stravinsky had no one overriding preoccupation."¹⁶ He maintains, however, the importance of "the physicality, the corporal side" of Stravinsky's preserial music: "his preserial compositions accomplish a reassociation of sensibility, favor the thinking body, the choreographic imagination, have the order and sense of limits that allow reason and feeling to fuse."¹⁷ This phrase, "the thinking body," has become a resonant mental bell for me, its reverberations leading me to my own construction: "hand-memories," a concept that I believe is essential to tracing a composer's musical lineage and will be an essential thought experiment in my examination of Stravinsky's innovations in harmony and chord construction.

One perhaps slightly unusual but core source of my premise lies not in Stravinsky scholarship but in the work of French music scholar Roy Howat, specifically his dazzling 2009 book, *The Art of French Piano Music*. I met Roy Howat and heard him deliver a lecture in 2009, and his comments on the role that a composer's hands play in shaping their musical sound shook me deeply—indeed, more than a decade later I realize that I have not stopped thinking about

¹⁴ Shattuck, "The Devil's Dance", 86.

¹⁵ Ibid.

¹⁶ Shattuck, "The Devil's Dance", 87.

¹⁷ Shattuck, "The Devil's Dance", 88.

them. To some extent, this entire dissertation grows from the seed of this seemingly innocuous statement:

Even if no two pianists ever fit themselves identically to the same piece, an enjoyable secret of pianism lies in sensing and flexibly adjusting to the composer's own natural ways of moving. At best this helps the music play us as much as vice versa.¹⁸

Could Stravinsky, as a pianist, have adjusted to another composer's way of moving, in a way that manifested in his own compositions? Can we find these hidden "movements?" Questions such as these, and much of the imaginative thinking that I endeavor in this dissertation, are indebted to the spirit of "tactile" inquiry, which I first discovered in Howat's scholarship. Much of this dissertation will reference, in a roundabout way, Howat's *The Art of French Piano Music*, particularly the chapters *Body Language and the Piano* and *The Composer as Pianist*, both of which provide illuminating discussions of certain composers' particular preferences in pianos and piano playing, which can be abstracted and creatively re-applied to Stravinsky.

Finally, I am indebted to my mentor of the past five years at UCLA, Dr. Richard Danielpour, whose patient guidance has helped me immeasurably in my own growth as a composer, and whose imaginative, illuminating, and sometimes refreshingly "offbeat" lectures on Stravinsky's music ultimately formed the catalyst for my choosing to undertake this topic for my dissertation.

¹⁸ Roy Howat, *The Art of French Piano Music* (London: Yale University Press, 2009), 294.

CHAPTER 2: STRAVINSKY THE PIANIST

EARLY TRAINING

Stravinsky's childhood training in the Russian school of piano playing, at the hands of his teachers Aleksandra Petrovna Snyetkova and Leokadiya Aleksandrovna Kashperova, was to become, like everything else which fell into the composer's life, a fecund storehouse of potential musical inspiration. These early years as a child at the piano furnished him with a lifetime of resources. Yet from a piano teacher's standpoint, the success of his training would have been mixed, at best. In fact, if his teachers had any ambitions to create from the young Igor another star piano prodigy, possessing virtuoso technique and capable of making a living concertizing, they must have been disappointed. Stravinsky was too interested in improvisation:

When I was nine my parents gave me a piano mistress. I very quickly learned to read music, and, as a result of the reading, soon had a longing to improvise, a pursuit to which I devoted myself, and which for a long time was my favorite occupation. There cannot have been anything very interesting in these improvisations, because I was frequently reproached for wasting my time in that way instead of practicing properly, but I was definitely of a different opinion, and their approaches vexed me considerably. Although today I understand and admit the need of this discipline for a child of nine or ten, I must say that my constant work at improvisation was not absolutely fruitless; for, on the other hand, it contributed to my better knowledge of the piano, and, on the other, it sowed the seed of musical ideas.¹⁹

While one can easily imagine how, in line with this recollection, Stravinsky's improvisations provided him the first point of access to his nascent inner composer, there is, on the other hand, a little puzzle hidden in his seemingly guileless assertion that his childhood improvisation would

¹⁹ Stravinsky, *An Autobiography*, 5.

have “contributed to better knowledge of the piano.” From a piano teacher’s perspective, such an attitude is, at best, somewhat naïve, and even potentially quite harmful.²⁰ Nowhere, in my research of piano pedagogy as Stravinsky would have known it, have I found any reference to improvisation or student-guided keyboard exploration; unlike some modern pedagogical methods with which I have first-hand familiarity as a working piano teacher, there does not seem to have been any room or even tolerance for student-guided, improvisatory, playful, or “original” approaches to the keyboard. Instead, the picture that emerges from Stravinsky’s recollections of his training—a picture which is consistent with accounts of 19th-century piano pedagogy as a whole—is one dominated by an emphasis on complete technical mastery through perfect mechanical control, all toward the end of memorizing and flawlessly executing repertoire. Key to this goal was the student’s commitment to rote technical exercises:

As was customary for the time, Hummel prescribed a full hour of instruction every day for at least six months to a year so as to prevent the ingraining of bad habits. Carl Czerny... recommended that beginning students have one one-hour lesson daily in addition to one hour of practice for which the constant repetition of exercises was recommended.²¹

²⁰ Here we get a glimpse of why Stravinsky’s own words can present such enigmas: it is not just that at times we may feel compelled to question his sincerity, or speculate as to ulterior motives behind certain iconoclastic assertions, but also that his statements sometimes seem to assume a potentially misguided perspective, or at least a perspective which does not fully account for all relevant factors. I feel that he is especially prone to mis-attributing others’ actions to incompetence or even malice, when they may in fact have acted out of a good faith effort for reasons which Stravinsky is not willing or capable of recognizing. This seems especially pertinent in dealing with Stravinsky’s accounts of his early piano teachers.

²¹ Lora Deahl, “Robert Schumann’s ‘Album for the Young’ and the Coming of Age of Nineteenth-Century Piano Pedagogy,” *College Music Symposium* 41 (2001): 25–42.

In this light, Stravinsky's memory of having been "reproached for wasting my time in that way instead of practicing properly" may speak to those teachers' desires, not to quell a budding composer as it may have appeared to him (and us), but rather to "prevent the ingraining of bad habits," and to build a sure technical foundation in the critical stages of early instrumental learning.

Contrasting with these acrimonious (if perhaps misguided so) recollections of his piano teachers, Stravinsky recalls, with a considerably more nostalgic bent, playing through scores at the piano from his father's library:

Apart from my improvisation and piano-practice, I found immense pleasure in reading the opera scores of which my father's library consisted—all the more so because I was able to read with great facility. My mother also had that gift, and I must have inherited it from her.²²

One operatic score in particular must have stuck in Stravinsky's fingers for decades to come: we will see the hand-memories of Glinka's *Ruslan and Lyudmila* in the next chapter.

Every composer's music bears a unique stamp of their various early childhood imprints. For composers who grew up at the keyboard, that imprint comprises much of their earliest physical experiences of the instrument, and for Stravinsky, this would have been a combination of his piano teachers' pedagogical methods, his own improvisations, and the scores from his father's library. Together, the first and last of these would probably become engrained in Stravinsky through repeated practice: the musical scores which one learns in childhood become not only forever familiar to his fingers, but might even take a role in shaping one's very mind. In the field of neuroscience, it is "now widely accepted that experience can modify many aspects of brain function and structure," and one model for researching this concept of cortical plasticity

²² Stravinsky, *An Autobiography*, 5–6.

“that has gained increasing interest in the past decades is musical training.”²³ Various studies have found that musical training effects the very structure of the brain: “Piano training, in a short timeframe, may reshape local and inter-hemispheric motor cortical circuits.”²⁴ This effect can be observed throughout the human lifespan: “intensive and specific musical training seems to have an impact on brain structure, not only during the sensitive period of childhood but throughout life.”²⁵ Most studies converge, however, on the finding that the effects of musical training on brain structure are probably most acute in childhood: “There is also evidence of structural changes in the motor network due to musical training... The development of some motor skills might be particularly sensitive to early training.”²⁶ One neurological study undertaken for the purpose of determining the likelihood of the existence of a “sensitive period” of greater brain plasticity determined that music training “during a sensitive period in development [i.e., childhood] may have greater effects on brain structure and behavior than training later in life.”²⁷ It is safe, then, to say the training which Stravinsky received as a child, and particularly the

²³ H Gärtner et al., “Brain Morphometry Shows Effects of Long-Term Musical Practice in Middle-Aged Keyboard Players,” *Frontiers in Psychology* 4 (September 23, 2013): 636–636, <https://doi.org/10.3389/fpsyg.2013.00636>.

²⁴ Elise Houdayer et al., “Cortical Motor Circuits after Piano Training in Adulthood: Neurophysiologic Evidence,” *PloS One* 11, no. 6 (June 16, 2016): e0157526–e0157526, <https://doi.org/10.1371/journal.pone.0157526>.

²⁵ Gärtner et al., “Brain Morphometry Shows Effects of Long-Term Musical Practice in Middle-Aged Keyboard Players.”

²⁶ Sibylle C. Herholz and Robert J. Zatorre, “Musical Training as a Framework for Brain Plasticity: Behavior, Function, and Structure,” *Neuron* 76, no. 3 (2012): 486–502, <https://doi.org/10.1016/j.neuron.2012.10.011>.

²⁷ Christopher J Steele et al., “Early Musical Training and White-Matter Plasticity in the Corpus Callosum: Evidence for a Sensitive Period,” *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience* 33, no. 3 (January 16, 2013): 1282–90, <https://doi.org/10.1523/JNEUROSCI.3578-12.2013>.

scores which he would have played as a child, may have shaped his fingers and mind with the result that his unerringly piano-guided composing would forever contain echoes of these scores. These echoes, or hand-memories, will be the topic of the following chapter.

First, we should briefly examine Stravinsky's adult career as a pianist, as it would appear, from Stravinsky's accounts, that he never quite "finished" his training early in life. In spite of his fairly impressive childhood piano repertoire encompassing standard works of the classical and romantic composers, Stravinsky's comments about his adult playing reveal a deep insecurity about his technique, even a sense of technical inadequacy, which betrays his early training. This insecurity, however, must be weighed against the repertoire which Stravinsky endeavored to play as an adult: in general, not the standard common-practice repertoire of his childhood, but rather, his own mature compositions for piano and orchestra.

ADULT CAREER

Stravinsky's remarks concerning his preparation to perform the piano part of his *Concerto for Piano and Winds* reveal both his attitude toward pianism and the influence of pianism on his composition, and as such need to be quoted in full:

I ought to say that the idea of playing my *Concerto* myself was suggested by Koussevitzky, who happened to be at Biarritz when I was finishing its composition. I hesitated at first, fearing that I should not have time to perfect my technique as a pianist, to practice enough, and to acquire the endurance necessary to execute a work demanding sustained effort. But as I am by nature always tempted by anything needed prolonged effort, and prone to persist in overcoming difficulties, and as, also, the prospect of creating my work for myself, and thus establishing the manner in which I wished it to be played, greatly attracted me, these influences combined to induce me to undertake it.

I began, therefore, the loosening of my fingers by playing a lot of Czerny exercises, which was not only very useful but gave me keen musical pleasure. I have always admired Czerny, not only as a remarkable teacher but also as a thoroughbred musician.

While learning by heart the piano part of my *Concerto*, I had simultaneously to accustom myself to keep in mind and hear the various parts of the orchestra, so that my attention should not be distracted while I was playing. For a novice like myself this was hard work, to which I had to devote many hours every day.²⁸

While acknowledging his indebtedness to Czerny for technique and mechanistic purposes, Stravinsky does not, of course, go so far as to admit that Czerny's music might have proved influential to his own pianistic conceptions, nor does he acknowledge, here or elsewhere in my findings, that his admiration for Czerny may have passed onto him by his early piano teachers. The pedagogical methods of his second teacher, Kashperova, were "based upon the revered methods of Theodor Leschetizky."²⁹ If, as Griffiths claims, that "Kashperova may have been the 'spokesperson,' but it was Leschetizky's message that echoed—albeit unacknowledged—through Stravinsky's mature neoclassical idiom and ideological stance,"³⁰ then in Stravinsky's professed admiration for Czerny we find an echo of Leschetizky's commitment to his teacher's principles: "I teach exactly as Czerny taught me; I have added nothing, changed nothing."³¹

Whether or not this pedagogical lineage, extending from Czerny to Leschetizky to Kashperova, exerted any great influence on Stravinsky's early childhood training, it certainly manifests in Stravinsky's adult commitment to Czerny's exercises. In his description of

²⁸ Stravinsky, *An Autobiography*, 113.

²⁹ Griffiths, *Stravinsky's Piano: Genesis of a Musical Language*, 18.

³⁰ Griffiths, *Stravinsky's Piano: Genesis of a Musical Language*, 18.

³¹ George Woodhouse, "How Leschetizky Taught," *Music & Letters* 35, no. 3 (1954): 220–26.

“loosening” his fingers through exercises which gave “keen musical pleasure” we find again the implicit connection between the tactile and the musical. Perhaps Stravinsky’s “musical pleasure” was *innately* tactile; we can certainly wonder if he would express the same enjoyment of the music of Czerny were he to experience only as a listener. It strikes one as unlikely: Czerny’s music is probably best described as utterly *competent*, and while it may be technically unimpeachable as to its craft, but from a creative and imaginative standpoint it never rises above dreadful banality. Its dull, predictable, totally conventional nature makes Czerny’s music the exact opposite of his teacher, Beethoven, for whom Stravinsky’s admiration would be expressed in much more complicated terms (as we will see later). What made Stravinsky perceive in Czerny a “thoroughbred musician” to be admired? It is possible that Czerny’s music, totally lacking in imagination or spontaneity, provided for Stravinsky a model of musical craft and the classical style unencumbered by the rhetorical and cultural baggage with which the canonical composers are helplessly saddled—baggage which Stravinsky frequently took pains to disparage, baggage which he found an enormous obstacle in appreciation of those composers’ music, and which, above all, he wished to avoid allowing onto his own music. But the issue may be simpler. Stravinsky may have simply enjoyed playing Czerny for the simple pleasure of practice. Instrumentalists enjoy, in the act of practicing their instrument, an activity which, apart from its vast artistic and cultural meanings, provides enjoyable physical actions which can be sustained for long durations of time. Musicians who practice for hours at a time may experience sensations similar to long-distance runners, swimmers, or other endurance-based physical endeavors, wherein after some time the mind blissfully switches to a relaxed state and the body takes over. While composers also, of course, experience the flow state, theirs generally must take a more cognitively dynamic, thinking-feeling form, quite different from the mechanical repetition-

induced state which arises from long practice sessions at an instrument. Stravinsky, as a composer-pianist, would have had access to varied modes of musical flow states. As a composer, he surely was a master of the “sometimes thinking, sometimes feeling, sometimes deliberate, sometimes spontaneous, always trusting” flow of composing music. But he also seemed to enjoy, at times, the performer’s flow of settling into a comfortable, body-led “groove” of letting the fingers take the reins and run across the keys, relatively unimpeded by the mind. This may have been some of the “keen musical pleasure” that Stravinsky described in his practice of Czerny. But this practice, for a composer, is never “just” practice: it also plants seeds. In the next chapter we will see how Stravinsky’s piano practicing built him a storehouse of latent musical material, which manifested itself in the composer’s music in some surprising ways.

CHAPTER 3: HAND-MEMORIES

*Nadia Boulanger, who knew the composer well, observed: “Stravinsky’s personality is so peremptory that when he picks up something, you don’t see the object so much as the hand holding it.”*³²

*He was a tactile man whose sense guided him as he went, literally “feeling” his way, especially at the keyboard, for new ideas.*³³

*The danger lies not in the borrowing of clichés.*³⁴

A PRECEDENT EXAMPLE

In the spirit of Harold Bloom’s theory that poets make poetic history “by misreading one another, so as to clear imaginative space for themselves,”³⁵ consider this rather strange chord, which will be “misread” by a later composer, originally occurring in the first measure of Chopin’s *Etude* in a minor, Op. 10 No. 2:

³² Joseph, *Stravinsky Inside Out*, 2.

³³ Joseph, *Stravinsky Inside Out*, 22.

³⁴ Stravinsky, *An Autobiography*, 79. In a similar vein, Stravinsky is also sometimes credited with the maxim, “Good composers borrow; great composers steal.” Fittingly, he may have “borrowed” this phrase from any number of previous artists to whom it can also be attributed.

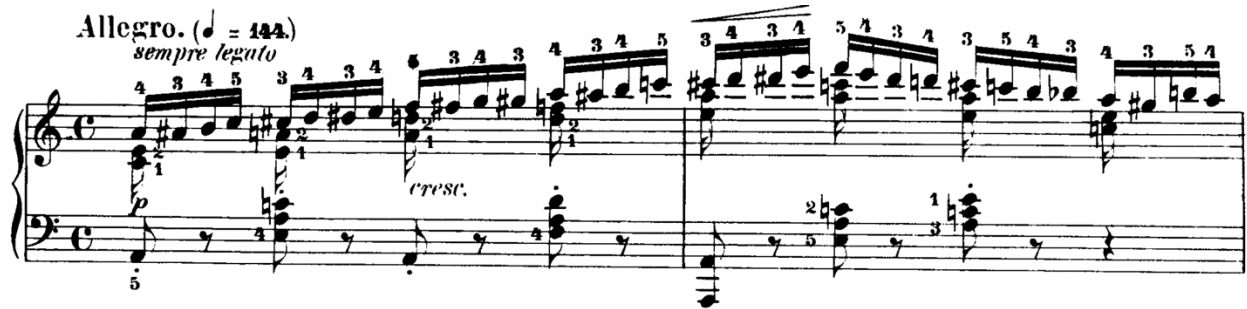
³⁵ Harold Bloom, *The Anxiety of Influence: A Theory of Poetry* (New York: Oxford University Press, 1973).

FIGURE 1.



Taken as an isolated, discrete sonority, as shown here, it would make little sense in Chopin’s harmonic language. Yet, put in context, the chord becomes the perfectly logical result of chromatic voice-leading; in fact, it is barely a “chord” at all in the sense that the “wrong-note” c-sharp would not really be heard as a full-fledged member of the coincidental vertical sonority, but rather as a blur in the swift chromatic scale then occurring:

FIGURE 2.



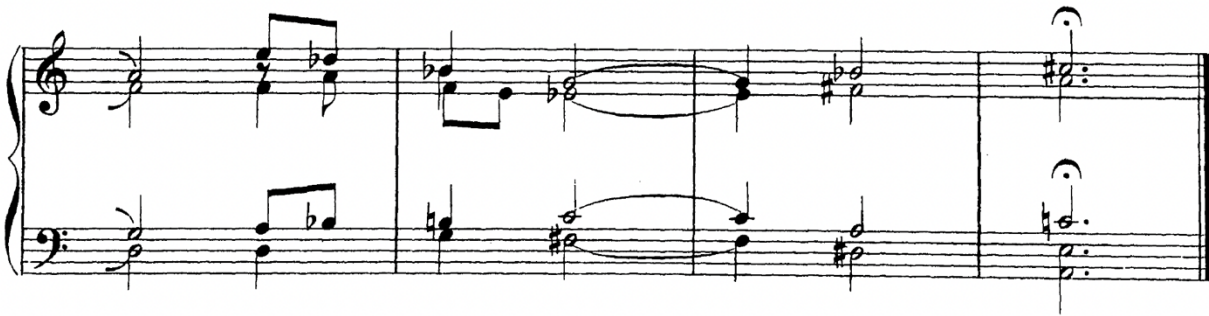
Now consider another sonority, written by a composer who greatly admired Chopin, and whose style evolved from a carbon-copy imitation of the former to one of stunning innovation and originality; this sonority was one of the last things Scriabin ever put to paper:

FIGURE 3.



While this sonority, too, emerges from chromatic voice-leading, unlike in Chopin, where it exists only as a transitory object in motion, in Scriabin there follows nothing but silence, no further voice-leading to “redeem” the “wrong” notes; it stands emancipated as an independent verticality—indeed, the final one of the piece:

FIGURE 4.



As a paradigm for the composer’s unique and unprecedented break from late common-practice tonality and creation of a fully individual atonal system, much analysis has been lavished on Scriabin’s Five Preludes Op. 74 from which this sonority emerges. These analyses examine the sonority’s possible derivation from various scales, its various permutations throughout the prelude, its relationship to similar sonorities in Scriabin’s late works and to his late harmonic language in general, and other factors readily available for demonstration via charts, tables, diagrams, and so on. But, to my knowledge, there is no analysis which acknowledges the simple fact that Scriabin had likely spent much time playing Chopin’s *Etudes*, and, as such, continued to emulate the older master—even unintentionally—to the end of his life. The imitation went underground, or, better, under the skin. While in his early career, Scriabin manufactured carbon copies of Chopin’s forms (as in his 24 Preludes Op. 11 and the early Mazurkas), his late works become increasingly independent of conventional narratives—and yet he never shakes the muscle-memory “programmed” into his hands.

Like Scriabin, Stravinsky would have retained many hand-memories through his life: cortical motor circuits permanently engrained in childhood which would remain latent and able to be reactivated at any moment of improvisation or composition at the keyboard. The following

analytical episodes are but a smattering of the instances of these hand-memories, and they represent some of the more obvious cases of Stravinsky's music originating in his hands from previously played repertoire. I have no doubt there are many more examples to be found, and only a thorough perusal of *all* the repertoire which literally "shaped" Stravinsky's hands, combined with a cross-reference to the composer's entire output, would reveal the full extent to which the composer allowed his hands, more than his mind, to compose. As it stands here, I hope that the following examples will provide a reasonable scope of sources across the composer's output, and as such are organized by chronology of composition.

ADDRESSING THE POTENTIAL OF MERE CHANCE

For some readers, skeptical questions may hover over the following examples: How many of these connections are truly meaningful, and how much do they owe to mere chance? After all, there are so many chords in so many compositions, and surely it must be possible to find some of Stravinsky's unique harmony elsewhere, if one looks hard enough?

Disregarding doubling and voicing, there are 4,017 possible combinations of the 12 pitches into chords between 3 and 12 number of pitches.³⁶ This number increases enormously when taking doubling and voicing into account. Consider, for example, how many distinct ways there might be to combine just *two* pitches on the piano keyboard, if any number of those two pitches in any register are permitted. Now consider that this must be done for *every* group of two pitches, and three, and four, and so on. When accounting for voicing and spacing, the number of

³⁶ Arthur Fox, "How Many Possible Chords Are There In Music?," *Arthur Fox Music* (blog), accessed September 15, 2021, <https://arthurfoxmusic.com/how-many-possible-chords/>.

possible combinations of pitches on the keyboard becomes many orders of magnitude greater than 4,017—probably equivalent to the factorial of the number of keys on the keyboard: 88!, or the number 185 with 132 digits following. In short, the number of unique possible combinations of pitches at the keyboard is, for practical purposes, all but uncountable.³⁷ But how does a composer choose from amongst the seemingly endless possibilities available, especially when accounting for the relative limitations imposed by the composer’s ten fingers and their relationship to the “geography” of the piano keyboard?

Not all of the possible combinations of pitches will be equally “valid” to a composer. Out of the almost innumerable number of options, there exist a much smaller number which a pianist is likely to have already played. Some of these may have only been played once, and some, such as a common close-position triad, would have been played many times. Those which have been played many times will have begun to assume an independent identity in the pianist’s hands as “muscle memory,” and those that, like the Chopin-Scriabin example above, also signify a moment of intense musical interest, will be especially memorable because of their uniqueness. In short, chords become “programmed” into the pianist’s hands—some more strongly than others—and what seems, on paper, like an “improbable” combination of pitches, such as the Augurs chord, may have found their way into the composer’s hands first as a memory.

³⁷ Voicing and spacing, more than abstracted pitch-content, frequently are the factors which matter most in discussing a composer’s harmony, and why analyses which fail to take these into account miss a crucial ingredient. The *Psalms* chord, for example, when reduced to merely its constituent pitches, irrespective of register and doubling, becomes not the *Psalms* chord, but simply a commonplace triad. It is the spacing and doubling which gives the *Psalms* chord its unique identity. In the case of unique sonorities, it is the voicing and spacing which matter.

Briefly consider this analogy to chess, keeping in mind the astronomical number of potential chord combinations at the piano mentioned above. In his 1950 paper, “Programming a Computer for Playing Chess,” mathematician Claude Shannon estimated that, for a chess game within 40 moves, “there will be 10^{20} variation to be calculated from the initial position.”³⁸ This gives rise to the famous factoid that there are more possible games of chess than atoms in the observable universe. But most of these games would be “nonsense,” meaning that while technically comprising legal play, they would not consist of meaningful strategy aimed toward creating favorable positions for either player. When eliminating the nonsensical moves, the number of possible games, that is, games which might actually be played in practice, is vastly reduced. One of Shannon’s deductions is that it would be impossible for a computer to use mere brute force calculation, disregarding knowledge of tactics and strategy, in order to play chess effectively; a computer would need to be programmed to calculate positional analysis the way a skilled human does, by only considering the most attractive options; in other words, the computer would need to learn to seek *meaningful* positions.

Just as a computer cannot play chess by merely considering *all* possible moves, but rather must choose to consider only the most *meaningful* moves, so too does a composer improvise and compose using what are to them the most *meaningful* musical options. The options are different for every composer and will derive from their individual relationship with the instrument, their training, their anatomy, and so on. So, what options would have been meaningful to Stravinsky?

³⁸ Claude E. Shannon, “Programming a Computer for Playing Chess,” *Philosophical Magazine*, 7, 41, no. 314 (1950), 4.

Here we can return to his childhood training, to see how Beethoven might have crept through Stravinsky's hands into *Rite of Spring*.

1913: THE "AUGURS CHORD" AND THE *PATHÉTIQUE* SONATA

In keeping with Stravinsky's desire to understand "those incidents which make a deep impression" early in one's development,³⁹ this analysis hinges on the presupposition that Stravinsky learned to play Beethoven's Piano Sonata Op. 13, the "*Pathétique*" as a young piano student, and that he expressed hand-memories of that work in *Rite of Spring*. While I have yet to find direct, explicit proof that Stravinsky learned the Op. 13 Sonata, there does exist enough circumstantial data to suggest that it is very likely Stravinsky's pianistic repertoire included the *Pathétique* at a young age.

Stravinsky would certainly have been quite familiar with the standard piano repertoire as a child; his mother was apparently quite a skilled pianist:

In one of the few kind remarks he ever made about her, Stravinsky suggested that it was his mother's sight-reading ability that he inherited. Moreover, Nicolas Nabokov suggests that Anna's regular playing of standard piano repertoire while Igor was a child must surely have influenced him, although he would never admit it.⁴⁰

She probably would have played the *Pathétique*, young Stravinsky hearing it even before he could play it:

[Anna's] repertoire encompassed a liberal variety of periods and composers... the easier sonatas of both Mozart and Beethoven... were all included... [Stravinsky's] musical sensitivity, even subliminally, must

³⁹ Stravinsky, *An Autobiography*, 3.

⁴⁰ Joseph, *Stravinsky Inside Out*, 72.

have been at least partially sharpened by rehearing this repertoire over the period of several impressionable years.⁴¹

Stravinsky would then learn the standard repertoire under his second piano teacher, Kashperova, including numerous piano sonatas of Beethoven:

By age thirteen Stravinsky's piano repertoire included... various sonatas of Haydn, Mozart, Clementi, and especially the music of Beethoven... Beethoven seems to have been a central hero as evinced by the frequency of concert programs on which his music was performed.⁴²

Indeed, then as today, the *Pathétique* Sonata, especially among Beethoven's sonatas, appears to have occurred all too frequently on recital programs by young and amateur pianists; in his companion to the Beethoven sonatas, Charles Rosen quotes a remark from a much earlier companion, written in 1855, about the *Pathétique*:

We should not like to have to speak about this work after the suffering it has gone through for fifty years in boarding schools and other institutions where one learns to play the piano. ...the *Pathétique*, the feared score, becomes inevitable... Let us hasten to say that it is simply magnificent, that the crowds of crickets who have devastated the adagio until the present day were not able to destroy its calm grandeur.⁴³

Apparently the *Pathétique* was overplayed enough (and played badly enough) to warrant such an invective; Rosen concludes that it "was already evident by 1855 that the popularity of the "*Pathétique*" was a threat to its appreciation."⁴⁴

Even if he didn't memorize the work for performance, Stravinsky would most likely have studied it intently. Discussing how he learned to orchestrate in his early lessons with his

⁴¹ Joseph, *Stravinsky and the Piano*, 4.

⁴² Joseph, *Stravinsky and the Piano*, 8.

⁴³ Charles Rosen, *Beethoven's Piano Sonatas: A Short Companion* (New Haven: Yale University Press, 2002), 141.

⁴⁴ *Ibid.*

composition teacher Rimsky-Korsakov, Stravinsky recalls that he was made to orchestrate passages from Beethoven's piano sonatas as often as every week;⁴⁵ he also described how, when composing his 1924 *Sonate pour piano*, he *replayed* "a great many of Beethoven's sonatas," and that,

In our early youth we were surfeited by [Beethoven's] works, his famous *Weltschmerz* being forced upon us at the same time, together with his "tragedy" and all the commonplace utterances voiced for more than a century about this composer who must be recognized as one of the world's greatest musical geniuses.

Like many other musicians, I was disgusted by this intellectual and sentimental attitude, which had little to do with serious musical appreciation. This deplorable pedagogy did not fail in its result. It alienated me from Beethoven for many years.⁴⁶

The choice of the word "alienated" here is intriguing: there is an echo of Emerson's famous statement from *Self-Reliance*, that "In every work of genius we recognize our own rejected thoughts: they come back to use with a certain alienated majesty."⁴⁷ Indeed, we will see that Stravinsky's professed "alienation" from the Beethoven sonatas seems to have certainly brought them back to him, if not with "majesty," then at least with force. In any case, Stravinsky wrote later of his "addiction" to the Beethoven sonatas,⁴⁸ and, tellingly, describes how "Beethoven

⁴⁵ "My work with Rimsky-Korsakov consisted of his giving me pieces of classical music to orchestrate. I remember that they were chiefly parts of Beethoven's sonatas, and of Schubert's quartet and marches. Once a week I took my work to him and he criticized and corrected it, giving me all the necessary explanations, and at the same time he made me analyze the form and structure of classical works." (Stravinsky, *An Autobiography*, 21.)

⁴⁶ Stravinsky, *An Autobiography*, 115.

⁴⁷ Ralph Waldo Emerson, *Self-Reliance and Other Essays* (New York: Dover Publications, 1993), 19.

⁴⁸ Igor Stravinsky and Robert Craft, *Themes and Conclusions* (London: Faber and Faber, 1972), 269.

discovers and sometimes maps out the different territories of several future composers.”⁴⁹

Ironically, in Stravinsky’s telling these “several” composers do not include Stravinsky himself, but as we will see he was quite correct in his own case as well.

Is this enough to link, if not conclusively, then at least with overwhelming probability, Stravinsky with the *Pathétique* Sonata? At the very least, this historical evidence provides enough probability of Stravinsky’s first-hand knowledge of the *Pathétique* to establish the musical connections shown below as more than mere coincidence.

Recall that in the Chopin-Scriabin example used as precedent, Chopin’s *Etude* “happened” upon a certain combination of pitches through chromatic passing tones, which the latter “fossilized,” so to speak, into an independent vertical sonority. Going further back into musical history, the simple dominant-seventh chord can be seen as a similar development, as at least one theorist, Narcis Bonet, asserts that it first “came into being through a melodic gesture of a *passing tone* before being affirmed as a true chord in and of itself.”⁵⁰ Musical dissonance, then, seen in this historical light as passing tones becoming “verticalized,” accords with Stravinsky’s definition given in the *Poetics of Music*:

Let us light our lantern: in textbook language, dissonance is an element of transition, a complex or interval of tones which is not complete in itself and which must be resolved to the ear’s satisfaction into a perfect consonance.⁵¹

⁴⁹ Stravinsky and Craft, *Themes and Conclusions*.

⁵⁰ Narcis Bonet, *The Fundamental Principles of Harmony* (Barcelona: Dinsic, 2010), 9.

⁵¹ Stravinsky, *Poetics of Music: In the Form of Six Lessons*, 34.

In the sense that dissonance, at least in common practice tonal music and in Stravinsky's own conception, occurs because of harmonic function (whether that function be actualized or evaded), let us finally examine the *Augurs* chord with a new appreciation for its potential functional implications.

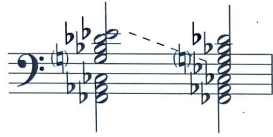
FIGURE 5.



Besides its shockingly brutal sonic effect, this chord is remarkable for its spelling. Stravinsky, in the midst of this most ferociously arch-modernist work, elects to mount a key signature of three flats to the movement *Augurs of Spring*. Not only that, but he foregoes the seemingly obvious spelling of the lower four pitches as E major triad in favor of the decidedly obscure F-flat major triad. This again recalls Scriabin, who sometimes in later works would write the very first pitch of the piece as a *double* sharp or flat, seemingly alluding to that pitch's having developed from some distant key area, as if the composition were picking up *in media res* from some existing harmonic travail. Here in *Augurs* that seems to be exactly the case, as Stravinsky clearly did not want this sonority to be seen as two simple chords, a major triad and a dominant seventh, superimposed upon one another; nor did he want it to be perceived as a bitonal "clash" between two chords from different keys (E and E-flat). Rather, the chord, together with the ersatz key signature, demands to be considered as one continuous entity. Here I must quote again from Narcis Bonet's *The Fundamental Principles of Harmony*, for his analysis of this chord points precisely in the direction I am heading, without going all the way there:

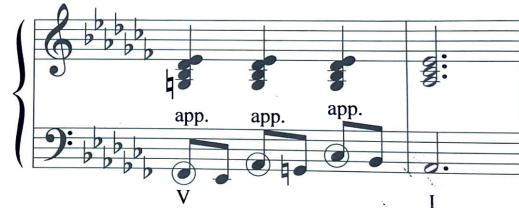
FIGURE 6.

If we continue developing the notion of chords simply by the superposition of thirds up to the *Thirteenth-chord*, it becomes obvious that harmony has totally invaded the realm of melody: the seven notes of a key being thus absorbed into Harmony through a vertical tertian chord structure! The famous chord of the “Dance of the Adolescents” from Stravinsky’s *Rite of Spring* shows us a *Thirteenth-Chord* on the VI degree of A♭ minor:



Should one analyze this chord as a superposition of several triads, or as a *Dominant Seventh chord* (of A♭ minor) with *three appoggiaturas*?

For me, the tonal gravitational pull of the *Dominant-Seventh chord*, even in inversion, carries the day over the root position chord built on F♭ major (VI degree of A♭ minor) with its root in the Bass. In the Romantic period one would have written and analyzed the following without hesitation:



As in the Chopin-Scriabin example, we now find precedent for Stravinsky’s dissonance emerging from the “fossilization” of passing chromatic tones. Despite Stravinsky’s key signature of three flats—which will prove significant when we return to Beethoven—Bonet gives the very unusual key signature of A-flat minor, in keeping with his reading of the sonority’s “home” being in that key, perhaps to better demonstrate the essentially diatonic character of the appoggiaturas. Here, Bonet seems to be literally enacting what Stravinsky meant by one’s ear being “called upon to complete a chord and cooperate in its resolution, which has not actually been realized in the work.”⁵² This accords again with Stravinsky’s historical narrative about the evolution of dissonance, as given in the *Poetics*:

But nothing forces us to be looking constantly for satisfaction that resides only in repose. And for over a century music has provided repeated examples of a style in which dissonance has emancipated itself. It is no longer tied down to its former function. Having become an entity in itself, it frequently happens that dissonance neither prepares nor anticipates anything. Dissonance is thus no more an agent of disorder than consonance is a guarantee of security. The music of yesterday and of today unhesitatingly unites parallel

⁵² Stravinsky, *Poetics of Music: In the Form of Six Lessons*, 34.

dissonant chords that thereby lose their functional value, and our ear quite naturally accepts their juxtaposition.⁵³

The music of yesterday: that beloved treasure to which Stravinsky would continuously return throughout his life. Yet often he returned to it seemingly by accident: and now, like Stravinsky's admonishment to the reporter who called him a turning-point in music history ("I am but a turning-around point"), we can turn back to Beethoven.

FIGURE 7.



In the slow movement of Beethoven's Op. 13 Piano Sonata, we find many instances wherein the highly active *bel canto* melody creates momentary dissonances against the relatively static accompaniment; while this in itself is fairly commonplace throughout music of this era, Beethoven intensifies the dissonances and their expressive effect by maintaining a "pulsating" accompaniment, so that the dissonant notes in the melody must be heard one-to-one with the accompanying pitches against which they create dissonance. This effect becomes particularly noticeable in the movement's second section, the modulation to the parallel minor, in which the

⁵³ Stravinsky, *Poetics of Music: In the Form of Six Lessons*, 34.

soprano melody, for the first time in the movement, finds itself answered: a quasi-*parlando* tenor line interjects itself between phrases, and so the pulsating accompaniment chords become entrapped by potential dissonances from both above and below. Out of such a fertile field springs, for just a moment, this remarkable little flower of a sonority:

FIGURE 8.



This moment invites an obvious connection to Stravinsky's *Augurs* chord: this chord constitutes exactly half of Stravinsky's (Beethoven's contains 4 out of the 8 pitches of the *Augurs*, occurring in exactly the same register and placement). As with the Chopin-Scriabin, we can readily intuit that what would have emerged in passing to the earlier composer, as a moment of heightened chromatic-voice leading, may have then become "stuck," through practice, in the fingers of the later composer, only to re-emerge later as a fully independent sonority. (I cannot help but think of the mosquito in *Jurassic Park*, alighting on a branch and getting trapped in amber, its belly full of precious dinosaur DNA available for later exploitation.)

A more subtle connection arises when we consider Stravinsky's key signature. As noted, Stravinsky had no interest in allowing this chord to be perceived as bitonal; rather, it draws into itself a verticalized compression of the *tonal* idiom. Stravinsky achieves this not only through the spelling of the pitches within the chord itself, but also by placing it within a key signature: he centers the chord within a universe of three flats. While I would never suggest that *Augurs of Spring*, as a movement, can be read or heard as meaningfully related to the keys of E-flat major or c minor, I do believe that this sonority finds a distant but deep echo of resonance to the tonal

realm from which its shocking power partially derives. It is not merely that the *Augurs* chord is “very dissonant,” in itself, as surely there are many chords penned by other composers, or Stravinsky himself, capable of “shocking” the ears with their “harshness”—but surely very few chords are as memorable as this one. Why is that? The effect of repetition should not be discounted: perhaps any sonority will create a powerful effect if simply repeated enough times. Stockhausen certainly exploited this possibility in his *Klavierstück IX*:

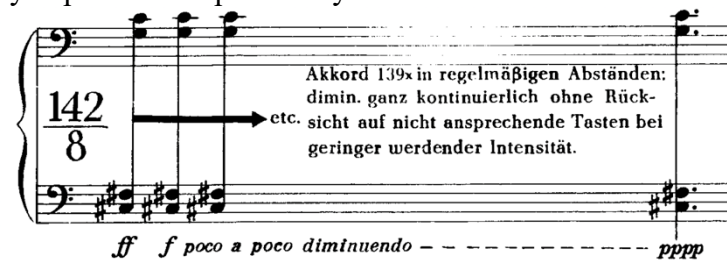


FIGURE 9.

And yet the chord of *Klavierstück IX*, even with its 139 repetitions, fails to stick in my mind the way the *Augurs* chord does. While the piece itself creates a striking effect in performance, the actual sonority is, to my ears, not very interesting. I believe it has something to do with “tonal resonance.” Notice how Stockhausen seems to carefully spell his chord to *avoid* any potential tonal readings, such as those to which the *Augurs* chord can be readily subjected; if anything, Stockhausen’s pitches and their spelling are more reminiscent of a juxtaposition of two pitch fields, such as the C-C-sharp “juxtaposition” of the *Petrouchka* chord. And yet without a full triad on either side to complete the sense of juxtaposition, Stockhausen’s chord might as well be four independent pitches belonging to no *a priori* system of organization, or at least one that is readily discernible to the ear with such limited information. The *Augurs* chord, in contrast, somehow gives the effect of being the peak of a progressively *intensified* dissonance, such as would arise organically from the conditions provided in the *Pathétique*, and yet a dissonance which has been isolated from its original, generating context. And while Stravinsky might have taken umbrage at the suggestion that he outright “borrowed” the *Augurs* chord from Beethoven,

he probably would not have objected to the interpretation that some fundamental aspect of its power arises out of tonal principles:

If it were said that my music is atonal, that would be tantamount to saying that I had become deaf to tonality. Now it well may be that I remain for a considerable time within the bounds of the strict order of tonality, even though I may quite consciously break up this order for the purposes of establishing a new one. In that case I am not *atonal*, but *antitonal*.⁵⁴

His “*antitonal*” nature manifests in how the constituent pitches of the *Augurs* chord may logically arise in a tonal idiom, as they do in the *Pathétique*, but the rules which govern them are inverted. That is, within a tonal context this sonority’s emergence indicates a moment of extreme tonal instability. In the context of Beethoven, the *Augurs* chord is like an unstable chemical element with a short half-life: it decays extremely rapidly, or, in musical terms, must quickly give way to further musical development with a tendency toward tonal stability. Yet within the context of Stravinsky, the *Augurs* chord is free to repeat, without change in pitch, until superseded by development from another parameter, as is what happens when the repeating chord gives way to a new contrapuntal texture. In this sense Stravinsky’s “*antitonal*” nature arises from his creating a musical atmosphere in which these unstable elements, these highly dissonant sonorities, become stable, or fixed, objects in themselves.

The connection from Beethoven to Stravinsky goes deeper than the pitches themselves, or the harmonic implications discussed above. We must also consider this bridge, Beethoven-Stravinsky, from the standpoint of the composers’ *pianism*, an essential component of which is their implicit, abiding faith in the keyboard’s latent authority as a musical collaborator, its ability to suggest (if not generate) authentic, personal, and original musical material. Musical material

⁵⁴ Stravinsky, *Poetics of Music: In the Form of Six Lessons*, 38.

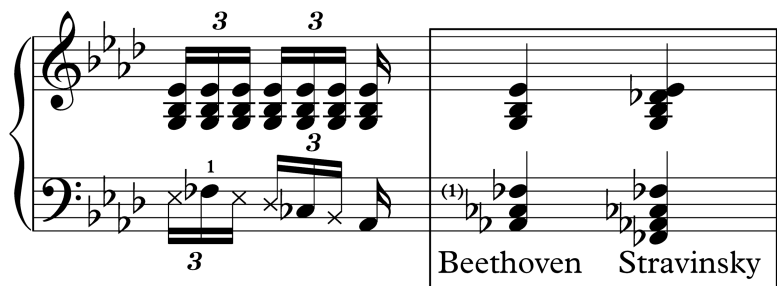
generated in this manner—through the piano keyboard—inevitably leaves some trace of its identity behind on the keys in a way that eludes the printed score. Consider the *Pathétique* passage again, with an eye toward the fingering a pianist would employ in the left hand—the Hans von Bülow edition with its editorial fingerings is a standard example:

FIGURE 10.



The thumb plays the F-flat, just as it would in *Augurs*. Not only that, but the thumb’s position on the F-flat, coupled with the subsequent descent through the A-flat minor scale, positions the left hand over most of the remaining lower members of the complete *Augurs* chord. Simply by playing the passage as written and using a logical fingering, a pianist’s hand assumes the position and shape of the *Augurs* chord:

FIGURE 11.



We can see clearly that while a glance at each respective score, and only the score, reveals only 4 of the 8 pitches in common, an informed *performance* of both passages, with basic tenets of pianism in mind, reveals the *Augurs* chord to have a tangible, kinesthetic connection to the *Pathétique*.

But there exists an even more subtle connection between these two passages that, once again, the printed scores obscure and which physical performance makes apparent: the *Augurs* chord and the Beethoven accompaniment triplet chords are struck at an identical rate. This is not to be confused with *tempo*, for the tempo in these two passages are slightly different, and yet the respective subdivisions of meter within each tempo yields a nearly identical velocity of repetition.

The slow movement of the *Pathétique* is marked *Adagio*, and most editors agree on a metronome marking of quarter note = 60–66 beats per minute. *Augurs of Spring* is marked half note = 50 beats per minute, in the orchestral score, and half note = 56 beats per minute, in the piano four-hands score. In *Pathétique*, the relevant passage consists of sixteenth-note triplets; in *Augurs*, it consists of eighth notes. If we express the tempo as a unit of the individual subdivisions, we can compare the velocity of attack between the chords of the two passages. The simple arithmetic to find the beats per minute of each individual note, using the upper end of the tempo for Beethoven and the lower end for Stravinsky, is as follows:

Beethoven

$$66 * 3 = 198 \text{ b.p.m}$$

(b.p.m. in eighth notes) * (3 notes per beat)

Stravinsky

$$50 * 4 = 200 \text{ b.p.m.}$$

(b.p.m. in half notes) * (4 notes per beat)

This can be shown visually as a (slightly imprecise) metric modulation:

FIGURE 12.



In short, if we disregard how the rhythm is presented on the page—ignoring the meter, beat, and subdivisions—and instead consider only the physical *speed* at which the chords are to be *played*,

then the chords in both *Pathétique* and *Augurs* become nearly identical. Of course, the foregoing proof proceeds, by necessity, through the printed page, and as such may strike one as fairly clumsy. But if one sits at the keyboard and attempts to play Beethoven's pulsating accompaniment chords exactly in tempo without accents, and then, without pause, play the *Augurs* chords exactly in tempo without accents, one will discover the immediate corporeal kinship between the two.

The *Augurs* chord has been analyzed from the standpoints of its potential tonal derivation,⁵⁵ its relationship to the octatonic scale,⁵⁶ and its pitch-class structure,⁵⁷ and while all these readings and more may be correct "post-mortem" dissections, none of them adequately account for the chord's most likely source, an immediate physical impulse in the composer's hands. Stravinsky claimed to be "the vessel through which the Rite passed," and if we take him at his word, then the "vessel" cannot merely be his mind, but the body, too, and the site of that mind-body vessel not merely the score, but the keyboard, too. Most observers have noted the pianistic influence, in a general sense; as Peter Hill notes:

⁵⁵ "Most of the harmony in *The Rite* radiates from an aggregation of notes formed by the superimposition of two chords with their roots a semitone apart. ...But [the Augurs chord] can also be explained as an inversion of the chord of the 13th." Eric Walter White, *Stravinsky: The Composer and His Works* (Berkeley: University of California Press, 1966), 210-211.

⁵⁶ Extensively elaborated upon by Pieter C. van den Toorn, *Stravinsky and The Rite of Spring: The Beginnings of a Musical Language* (Berkeley: University of California Press, 1987).

⁵⁷ See Allen Forte, *The Harmonic Organization of the Rite of Spring* (New Haven: Yale University Press, 1978).

The piano seems to have exerted an unseen influence on the *Rite*, far more than just a useful composing tool. The music has strong pianistic qualities: the snug “fit” under the pianist’s hands of its harmonies suggests that many were discovered while improvising.⁵⁸

Pieter C. van den Toorn also makes note of the pianistic qualities of Stravinsky’s harmony,⁵⁹ and Eric Walter White goes further as to suggest the Augurs chord’s origin as an immediate physical impulse: “In view of Stravinsky’s well known habit of composing at the piano, it seems likely that [the *Augurs* chord] came into existence as a bitonal aggregation of two separate chords that conveniently fitted his two hands.”⁶⁰ Most authors, then, regardless of their preferred “reading” as to the harmony’s most compelling explanation, agree that Stravinsky may have simply plunked his hands down upon these notes and then written the result in his sketches. But none have yet accounted for the overwhelmingly strong possibility, demonstrated above, of the chord’s having been *already present* in Stravinsky as a hand-memory of the *Pathétique*.

If we accept the *Pathétique-Augurs* connection as discussed above, a new question floats to the surface: what makes a sonority unique? If the two chords are so close in pitch identity, why do I call the *Augurs* chord by that name, and not the *Pathétique* chord—what causes a

⁵⁸ Peter Hill, *Stravinsky: The Rite of Spring* (Cambridge: Cambridge University Press, 2000), 13.

⁵⁹ “And the role of the piano in Stravinsky’s inventive processes, early on as an aid an improvisation and then in a constant “testing” of the ear, cannot sufficiently be stressed. Notice, for example, the easy right-hand-left-hand “lie” of the motto chord itself, which underscores the chord’s compound nature, its triadically sealed top and bottom “halves.” Here, too, then, the pianistic element is most conspicuous in those entries which are at the outset highly developed, suggesting the early, improvisational origin of this material.” van den Toorn, *Stravinsky and The Rite of Spring: The Beginnings of a Musical Language*.

⁶⁰ Eric Walter White, *Stravinsky: The Composer and His Works* (Berkeley: University of California Press, 1966), 211.

particular combination of pitches to find itself inextricably tied to a particular composer? An implicit conclusion of the foregoing analysis is that the *Augurs* chord is not entirely “new,” in that at least half of its constituent members—indeed, the essential ingredients of the chord—already existed in printed music at least once before *Rite of Spring*. Yet despite its precedence in Beethoven, the *Augurs* chord is so entirely Stravinsky. The immediate musical context surrounding the chord accounts for much of its unique personality: forceful articulation, brutal or *sans nuance* repetitions, and unpredictable offbeat accents—all features which contradict the musical context in which it finds precedent. Yet these features which combine to make the *Augurs* chord so unmistakably Stravinskian are also distinguishing traits, in general, of that earlier composer’s music, which embedded itself into Stravinsky’s hands: in its own way, Beethoven’s music also contains many moments of “forceful articulation, brutal or *sans nuance* repetitions, and unpredictable offbeat accents.” And so in precisely what combination of musical qualities is that ephemeral “personality” to be found? We know it when we hear it, but what exactly are we hearing?

Let us return to Harold Bloom for a moment: if we consider Stravinsky’s hand-memory of Beethoven analogous to Bloom’s concept of poetic “misreading”—a deviant interpretation of the model that forms a new utterance—then we can apply to Stravinsky one of Bloom’s terms categorizing the manner in which poets deviate from their predecessors, what he calls *Tessera*, which is completion and antithesis; I take the word not from mosaic-making, where it is still used, but from the ancient mystery cults, where it meant a token of recognition, the fragment say of a small pot which with the other fragments would re-constitute the vessel. A poet antithetically “completes” his precursor, by so

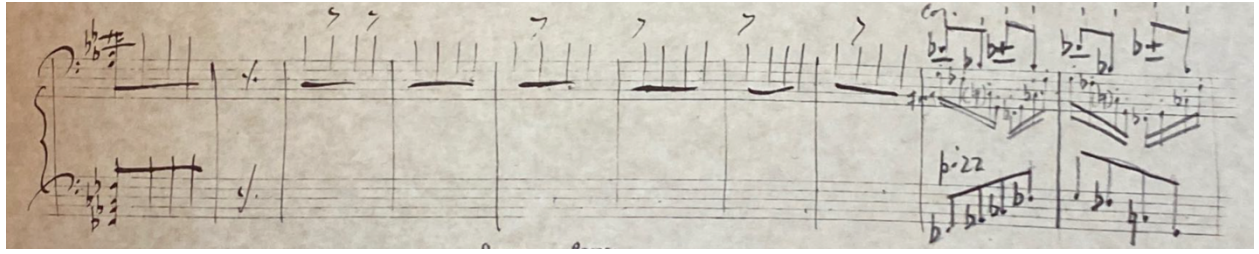
reading the parent-poem as to retain its terms but to mean them in another sense, as though the precursor had failed to go far enough.⁶¹

For myself, and other mere mortals, it would be hubris to suggest that Beethoven, of all composers, had ever “failed to go far enough”—and yet Stravinsky may be making just this suggestion. As we will see in further examples of Stravinsky’s Beethovenian hand-memories, Stravinsky did not shy away from engaging with Beethoven’s work in often highly critical terms. Stravinsky’s written commentaries on the works of Beethoven strike me as comfortably settled into the tone of one colleague writing about another; in the same manner that I might confidently, respectfully, and sometimes forcefully engage with the work of one of my fellow graduate composers with whom I feel a parity of artistry and craft, so does Stravinsky speak of Beethoven. Thus, it is entirely possible that Stravinsky intuited that “the precursor had failed to go far enough” in work such as the *Pathétique*, where, for an instant, a shocking sonority flew into being, only to be immediately snuffed out by the combined pressures of counterpoint, phrasing, and the tonal idiom. This “fragment,” to borrow again Bloom’s terminology, could then indeed become an ingredient with which Stravinsky could “re-constitute the vessel” of his own assemblage.

Note how, in Stravinsky’s sketches, shown below, the chords first appears fully “dressed,” so to speak: all constituent pitches present in their proper register, and in the curious, but logical, spelling as discussed above. There is little evidence that Stravinsky deliberated over the “construction” of this chord: surely it occurred, fully formed, to his hands.

FIGURE 13.

⁶¹ Bloom, Harold. *The Anxiety of Influence: A Theory of Poetry*. New York: Oxford University Press, 1973.



A FEW MORE CONNECTIONS BETWEEN THE *RITE* AND THE *PATHÉTIQUE*

Without providing as thorough an exegesis as above, I offer several more examples that suggest a keyboard kinship between the *Rite* and the *Pathétique*.

Beethoven's agitated dominant pedal, at the end of the development of the first movement, allows the lower voice to break free and "wander" into occasional minor ninths:

FIGURE 14.



Compare this to Stravinsky's wandering bass, also in *Augurs*, which briefly enunciates the same interval of a minor ninth between an upper G and a lower F-sharp:

FIGURE 15.



As with the *Augurs* chord, however, Stravinsky's pushes the effect far beyond what would have been possible in the common-practice period, although its precedent in that realm is clear.

Another moment from the first movement of the *Pathétique*, which finds an evocative echo in the *Rite*, is the appearance of low F-sharps under an undulating E-flat / D tremolo:

FIGURE 16.



The low F-sharps have a very marked effect due to the full-measure space between each, which within the context of this movement creates a dramatic textural contrast. Compare this to the opening of the *Rite's The Ritual of the Abduction*, which also directly follows a comparatively much denser texture, and which announces a new idea through a tremolo under which low, bare F-sharps ring out:

FIGURE 17.

As with the *Augurs* chord, these low F-sharps suggest a “tonal resonance,” in that a moment of intense harmonic instability has been captured and extended beyond what would be possible within the tonal idiom.

I am sure there are many more connections to be found between the *Rite* and the *Pathétique*. For now, we will move on to consider other works which may have crept through Stravinsky’s fingers and into his scores.

1913: “STRAVINSKY’S ELEVEN” AND BEETHOVEN’S OP. 110 PIANO SONATA

Stravinsky’s preoccupation with the relationship between rhythm and meter recurs with some frequency in his writing and speaking; in his 1939–1940 lectures at Harvard, for example, he

asserted that meter “offers in itself only elements of symmetry and is necessarily utilized by rhythm,”⁶² which he clarified by way of the following example:

Who of us, on hearing jazz music, has not felt an amusing sensation approaching giddiness when a dancer or solo musician, trying persistently to stress irregular accents, cannot succeed in turning our ear away from the regular pulsation of the meter drummed out by the percussion?⁶³

This amusement at “unsuccessful off-beats” must have extended, for Stravinsky, into the music of Beethoven as well, as he described some years later in his 1971 *Themes and Conclusions*:

But the truly baffling event in the [Op. 110] Sonata is that of the ten repeated G chords leading from the second *Arioso*... to the inverted form of the fugue. They occur on the last third of each beat following two thirds’ rest, but whereas the first two or three chords succeed in sustaining an off-the-beat-feeling... after that they become progressively, rapidly, and intolerably dull.⁶⁴

Stravinsky specifically notes that there occur *ten* chords, and that, since they fail in their (presumably) intended “off-the-beat feeling” and become “dull,” they all feel essentially equal, at least after a certain number of repetitions.

⁶² Igor Stravinsky, *Poetics of Music: In the Form of Six Lessons* (Cambridge: Harvard University Press, 2003), 28.

⁶³ *Ibid.*

⁶⁴ Stravinsky and Craft, *Themes and Conclusions*, 274.

FIGURE 18.



The above edition unfortunately adds beams to the off-beat chords, both obscuring their rhythmic placement and obfuscating the “static” or “floating” quality that Beethoven surely meant to convey. This quality is better demonstrated in the 1822 first edition of the score:

FIGURE 19.



Luckily, this visual fidelity was retained in scores published during Stravinsky’s lifetime, of which the following is offered as a representative example:

FIGURE 20.



Extracted from their musical context, the ten chords can be seen in isolation as follows:

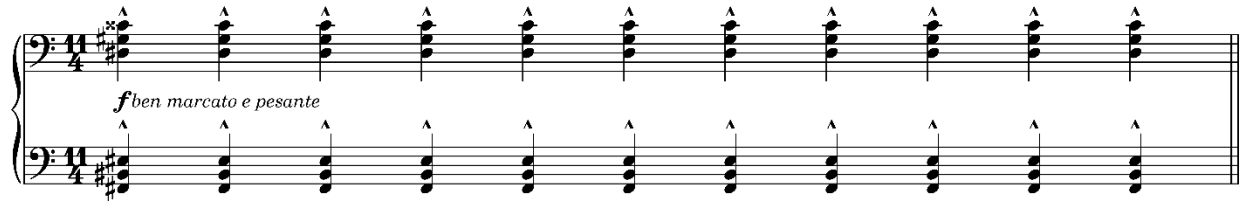
FIGURE 21.



Compare this with a moment from *Rite of Spring*. Stravinsky (pulling a Nigel Tufnel⁶⁵) goes to eleven—the time signature calling conspicuous attention to the number of repetitions. Of course, Stravinsky could have written two bars of 4/4 and one of 3/4, or any other combination that adds to eleven beats, but it must have been essential to him that the gesture be not only heard but *seen* as one unbroken impetus. (This is the rhythmic equivalent of the consistent pitch-spelling of the *Augurs* chord: Stravinsky’s notation insists that the idea be presented as one whole, continuous unit, not a combination of smaller, contrasting units.) While this moment sometimes is referred to by a rude mnemonic, I will call it simply “Stravinsky’s Eleven”:

⁶⁵ From the film *This is Spñal Tap*, wherein Nigel he explains how his amp is unique in that its highest knob setting is the number eleven, and is thus “one louder” than other amps which only go to ten.

FIGURE 22.



Is it possible to identify a bit of Bloomian *kenosis* in Stravinsky's Eleven?

Kenosis... is a breaking-device similar to the defense mechanisms our psyches employ against repetition compulsions; *kenosis* is then a movement towards discontinuity with the precursor.⁶⁶

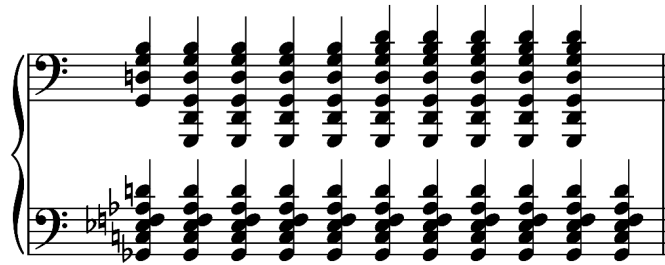
Kenosis... appears to be an act of self-abnegation, yet tends to make the fathers pay for their own sins.⁶⁷

It is not difficult to imagine Stravinsky—releasing a long-held frustration at the perceived tedium of Beethoven's *un*-offbeat chords—sitting at the piano and playing a grotesque parody of Beethoven's chords, which could transform into this moment from the *Rite*. Notice how, in the Beethoven excerpt, there appears a new pitch on the seventh repetition of the chord, the D4, well into the number repetitions which Stravinsky considered “intolerably dull.” Stravinsky's own eleven chords contain (the enharmonic equivalent of) this D4. In fact, if we adjust the rhythmic notation of the Beethoven example to match Stravinsky's subjective impression, rendering his chords as “on the beat,” and if we respell Stravinsky's chords to their enharmonic equivalents (the spellings also differ here in the *Rite*'s orchestral score), we can see the following somewhat startling superimposition:

⁶⁶ Bloom, *The Anxiety of Influence: A Theory of Poetry*, 14.

⁶⁷ Bloom, *The Anxiety of Influence: A Theory of Poetry*, 91.

FIGURE 23.



Visualized in this manner, we can see how close Stravinsky’s voicing is to Beethoven’s; in fact, if we make one slightly imaginative adjustment by transposing Stravinsky’s original left-hand staff down one octave (not inconceivable considering that, in orchestration, Stravinsky would end up doubling these chords with timpani and bass drum, creating a similar sonic effect), the similarity in voicing and construction becomes even more apparent:

FIGURE 24.



So it appears as though Stravinsky’s Eleven bears a more than passing resemblance to a moment from Beethoven that Stravinsky called “truly baffling”—sharing a single pitch and similar hand placement on the keyboard. Just as the *Augurs* chord transformed a fleeting moment into stasis, so does the Eleven transform suspension into certainty. Stravinsky’s Eleven collapses the “uncertain uncertainty” of Beethoven’s lingering off-beat suspension into a gesture of brutal determination; to borrow again from Bloom, Stravinsky truly “makes the father pay for his sins.”

1924: CONCERTO FOR PIANO AND WINDS AND GERSHWIN'S RHAPSODY IN BLUE

If Stravinsky's hands were infused with Beethoven through childhood practice, could they also have been guided by the work of his living colleagues? Joseph tantalizingly suggests, but does not elaborate on, the possibility of Stravinsky borrowing from Gershwin, remarking that Stravinsky's Piano Concerto contains "Gershwin-like piano figurations (*Rhapsody in Blue* was written the same year and premiered with the Paul Whiteman band just a few months before Stravinsky first played his new concerto)."⁶⁸ As with the Beethoven connections, I have not yet found a document which conclusively demonstrates Stravinsky's first-hand knowledge of Gershwin's score, and yet the circumstantial evidence is substantial:

Stravinsky also heard the music of George Gershwin during those first months in America and, shortly after arriving in New York, met him on 7 January at a party given in Stravinsky's honor. The next evening, the two composers met again at a reception following Stravinsky's Carnegie Hall concert... By the time he completed his tour in March and returned to Europe, Stravinsky grandly declared that a knowledge of American jazz was absolutely essential to any serious composer.⁶⁹

That grand declaration was certainly to find realization in such explicitly "jazz-oriented" works as *Piano Rag Music* or the *Ebony Concerto*, but as with many of Stravinsky's riddles, answers can also to be found in unexpected places. The *Piano Concerto* does not immediately come to mind when one considers Stravinsky's "jazz-oriented" works. Indeed, at first reading, Joseph's implication that Gershwin's *Rhapsody* may have influenced Stravinsky's piano writing in his *Concerto* seemed incredulous to me, given the brilliant, flashy, flexible and highly idiomatic

⁶⁸ Joseph, *Stravinsky Inside Out*, 37.

⁶⁹ *Ibid.*

piano writing in the former as opposed to the latter's comparatively dry and somewhat rigid approach to the solo part, yet I ultimately discovered numerous passages which share more than a passing resemblance. A recurring device in Stravinsky's *Concerto*, for example, is the piano's left hand scalar passages in octaves, which recursively loop back to a common starting area:

FIGURE 25.

The image shows a musical score for Stravinsky's *Concerto*. It consists of three systems of piano parts. The top system is labeled 'Piano' and features a treble clef staff with a tempo marking of 'Allegro' and a metronome marking of '♩ = 104'. A box containing the number '5' is placed above the first measure. The music includes a 'forte' dynamic marking and an '8' indicating an octave. The middle system is also labeled 'Piano' and shows a similar scalar passage. The bottom system is labeled 'Piano' and shows a continuation of the scalar passage with an '8' indicating an octave.

Gershwin employs a similar device in the *Rhapsody*:

FIGURE 26.

The image shows a musical score for Gershwin's *Rhapsody*. It consists of two systems of piano parts. The top system is labeled 'p' and features a treble clef staff with a tempo marking of 'Allegro' and a metronome marking of '♩ = 104'. A box containing the number '5' is placed above the first measure. The music includes a 'p' dynamic marking and an '8' indicating an octave. The bottom system is also labeled 'p' and shows a similar scalar passage with an '8' indicating an octave.

Both examples above reach toward and revolve around the pitch G-sharp; Stravinsky's alternates modes while Gershwin's remains fixed in the F-sharp melodic minor scale. In a harmonically simpler vein, there are similar passages in both works occurring entirely on white keys:

FIGURE 27.



Notice also, in the above example, the right hand's voicing of an octave with an additional third at the top, a voicing which Stravinsky also found useful in the *Concerto* (always on white keys):

FIGURE 28.



FIGURE 29.



Another strikingly similar voicing configuration, coupled with a specific melodic tendency, is the left-hand “fifth + tenth” sound, so beloved by Gershwin along with most early jazz and jazz-influenced composers. This sonorous voicing, under the hand of a skilled pianist, lends itself readily to a stepwise “walking” line, an effect which recurs several times, in various permutations, in both Stravinsky’s *Concerto* and Gershwin’s *Rhapsody* (with representative examples from each given below):

FIGURE 30.



FIGURE 31.



One more example will suffice for now, though one interested in further investigation will certainly find more connections between these two works. As seen above, a specific voicing that flourishes throughout Gershwin’s music is the major seventh (usually spelled as a diminished octave) with a single inner pitch, usually forming a tritone from the bottom pitch, although other combinations occur frequently. This is yet another example of a voicing that relates as much to a hand fitting comfortably on the keyboard as to a particular harmonic conception; in this case, the thumb and fifth finger remain at a comfortable slight extension, and the second or third finger

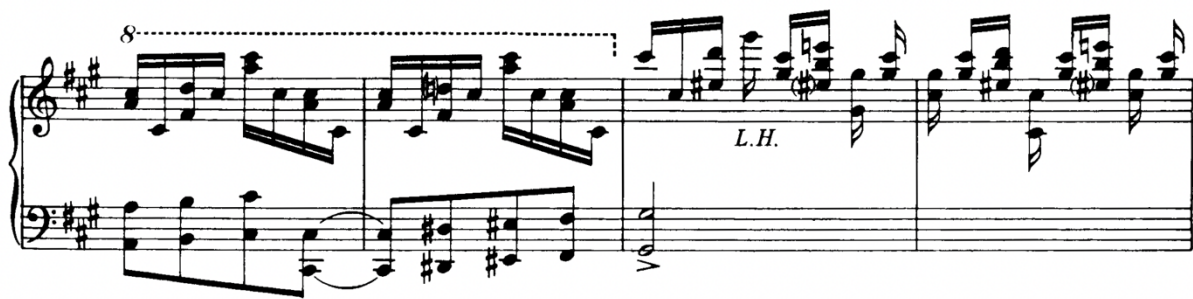
simply falls onto some pitch roughly equidistant between them. Stravinsky found frequent use of this voicing in the *Concerto*:

FIGURE 32.



Likewise, it occurs countless times throughout the *Rhapsody*, and in much of Gershwin's music in general—in fact, it is probably one of Gershwin's own musical “handprints”:

FIGURE 33.



These similarities give evidence to what Joseph calls the *Concerto*'s “Gershwin-like figurations,” and suggest that Stravinsky not only possessed familiarity with Gershwin's extremely popular new work, but also considered it worthy of appropriation. The larger question, then, is whether Stravinsky considered *Rhapsody in Blue* to be representative of the “jazz” which he proclaimed “essential” for “serious” composers to know. It is likely that he did, considering that the *Rhapsody* was, at the time of its premiere, billed as a jazz composition:

In the 1920s the genre [of concert jazz] became known as symphonic jazz, a term often credited to Paul Whiteman. The bandleader commissioned a large number of such works for his own ensemble, including George Gershwin's *Rhapsody in Blue* (1924), often identified as the quintessential example of the genre.⁷⁰ *Rhapsody in Blue* was surely bound to catch Stravinsky's notice if only for the fact that it marked a watershed in the concert-going public's relationship with jazz; one appreciation from 1947 somewhat condescendingly notes:

The printed program of the concert bore the legend "An experiment in modern music," and it was aptly named. Although the occasion was not the first time that jazz music had been heard in the sacred precincts of polite concert halls, it was quite unprecedented with regard to scope, careful planning, and seriousness of purpose. The success of the venture was sensational; its effect was permanent. And much of the influence of jazz music on "art" music dates back to that concert of twenty-three years ago.⁷¹

One has to wonder, then, to what extent Stravinsky's publicly declared embrace of "jazz" is really the embrace of the success of *Rhapsody*, a fully notated composition for the concert hall whose identity as representative of the "jazz" tradition is debatable. One of the ideas which "dominated the debate about the relationship of jazz to art music in the twenties" was that "jazz is best in its natural state, and that forcing it to conform to the demands of art music through development, expansion into long, organic forms, and so forth, robs it of its essential charm and force... Proponents of jazz in its natural state even found Gershwin guilty of what they saw as an emasculation of jazz... Those few writers who held the view that true jazz was the earlier, black, improvisational style considered Paul Whiteman the prime culprit behind the 'vanilla epoch of

⁷⁰ Ryan Raul Bañagale, "Concert Jazz" (Oxford University Press, October 2012), <https://doi.org/10.1093/gmo/9781561592630.article.A2228141>.

⁷¹ Edward N. Waters, "Gershwin's 'Rhapsody in Blue,'" *Quarterly Journal of Current Acquisitions* 4, no. 3 (1947): 65–66.

jazz.”⁷² Clearly, Gershwin and *Rhapsody in Blue* present thorny dilemmas to those concerned with defining and mapping the historical development of jazz and American music, but just as Stravinsky was, at times, capable of flattening the issues of even his own Russian musical heritage, as Taruskin so thoroughly explores in *Stravinsky and the Russian Traditions*, so too may he have simplified this field. He was probably willing to accept the billing of Gershwin as “jazz,” to find the music fresh and original, and to then borrow what elements he intuitively sensed would constitute viable ingredients for his own art.

⁷² Mary Herron Dupree, “‘Jazz,’ the Critics, and American Art Music in the 1920s,” *American Music* 4, no. 3 (1986): 287–301, <https://doi.org/10.2307/3051611>.

1946: SYMPHONY IN THREE MOVEMENTS AND GLINKA'S RUSLAN

We have already seen how Stravinsky's childhood piano repertoire included the opera scores contained in his father's library (Chapter 2). This interest must have extended into his adult life as well: Stravinsky's third child, Sviatoslav Soulima, recalled that Stravinsky once "called me in his room one day, and he had written for me a transcription of a Glinka aria, and even then I knew how important it was. Imagine Stravinsky writing especially for his son a transcription of a very beautiful *cavatina* from *Ruslan*, twelve pages in a little clothbound book, and it wasn't for my birthday or anything—just like that."⁷³ Even later in life, Stravinsky included *Ruslan's* Overture as part of his conducting repertoire.⁷⁴

A striking moment occurs in the Overture, wherein a pedal E hangs in suspension while two dominant seventh chords, an A and C dominant seventh, echo above and below:

FIGURE 34.

⁷³ Joseph, *Stravinsky Inside Out*, 72.

⁷⁴ In 1948, Stravinsky "conducted an all-Russian concert beginning with the overture to *Ruslan*, as well as Tchaikovsky's Second Symphony, a word the composer often programmed. (Joseph, *Stravinsky Inside Out*, 86.)

The image shows a page of a musical score with two systems of staves. The top system includes parts for Flaut., Cor., Fl., Ob., and Cl. The bottom system includes parts for Viol., Fag., and Timp. The score features various dynamic markings: *sf*, *ff* *Tutti*, *sf*, *p*, and *f*. Performance instructions include *dolce.* and *Tutti*. The music is written in a key with two sharps (D major or F# minor) and a 2/4 time signature.

These chords are unified by the hanging pitch E, which is a chord tone belonging to both. Yet their distance of a minor third creates maximal contrast between key areas, and for this brief moment the tonality of the piece is totally ambiguous; either dominant could assert its control. This sense of temporary harmonic “stasis” is similar to other moments from other repertoire, already mentioned above, which seemed to stick in Stravinsky’s ear; we will see an echo of it in just a moment.

Consider another moment from the *Ruslan* Overture, wherein a contrapuntal legato texture is underpinned by a highly disjunct, leaping staccato bass line:

FIGURE 35.

Cantabile. 3

The image shows a musical score for three instruments: Violin VI, Bassoon/Cello, and Bass. The tempo is marked 'Cantabile.' and the dynamic is 'pp'. The score consists of two systems of music. The first system has three staves: Violin VI (top), Bassoon/Cello (middle), and Bass (bottom). The second system has two staves: Violin VI (top) and Bass (bottom). The Bass line is characterized by a disjunct, leaping staccato pattern that suggests a subtle hemiola of a recurring three-note upward leap. The upper staves feature complex harmonic textures with competing dominant seventh chords a minor third apart.

Notice that this bassline sometimes suggests a subtle hemiola of a recurring three-note upward leap. Now if we combine this disjunct, leaping staccato bass line, emphasizing its hemiola, and the aforementioned harmonic “stasis” of competing dominant seventh chords a minor third apart and the disjunct, leaping staccato bass line, we can arrive at this moment from the first movement of Stravinsky’s *Symphony in Three Movements*:

FIGURE 36.

The image shows a musical score for Figure 36, consisting of six staves: Piano, Violin 1, Violin 2, Viola, Violoncello, and Contrabasso. The Piano part is at the top, marked with a measure number '8' and a 'simile' instruction. The string parts (Violin 1, Violin 2, Viola, Violoncello, and Contrabasso) are marked with 'arco' and 'pizz.' (pizzicato) and include dynamic markings such as *sfp*, *sf*, and *etc. sim.*. The Violoncello and Contrabasso parts are marked with a *p* (piano) dynamic. The score is written in a key signature of one flat and a 2/4 time signature.

While the similarity to the elements described in the *Ruslan* Overture is striking, it is also clear that this hand-memory involves quite a bit more metamorphosis than most of the foregoing examples. Here we arrive at the fuzzy boundary between what can truly be considered a repeated muscle-memory finding its way onto the page, as is so compellingly the case in the Beethoven excerpts, and the more amorphous area of “influence.” The differences between the moments in *Ruslan* and the *Symphony in Three Movements* are too great for the overall similarity to be tidily packaged as a hand-memory: the pitches and voicing, especially, are too different to say that Glinka’s striking dominant chords were “in” Stravinsky’s hands when he wrote his dominant chords in the *Symphony in Three Movements*. More likely is that Stravinsky had played the *Ruslan* Overture at the piano enough that the sonic effect—the two dominant chords a minor third apart, sharing one pitch, suspended against a static texture—entered his imagination where it could be subjected to the various metamorphoses necessary to produce the highly original result we see in the *Symphony in Three Movements*. Here we are beginning to depart from the

more clear-cut examples of true hand-memories and sail into the relatively un-chartable territory of the composer's inner imagination, and as such, will now recommence with examination of unambiguously physically-influenced material from later in the composer's life: pedagogical material for the keyboard.

“STRONG, AGILE, CLEVER FINGERS”

While young pianists today are likely to point to Charles-Louise Hanon’s *The Virtuoso Pianist* as the go-to compendium of mechanical technique exercises, Stravinsky’s preference in this regard was for the work of composer Isidor Philipp:

[Stravinsky] had studied with Philipp a few years earlier in preparing to play his new and pianistically awkward Concerto for Piano and Winds, the work with which Stravinsky had introduced himself to the public as a pianist. As a teacher of both father and son, Philipp’s pedagogy should not be undervalued, for in very direct ways it shaped their pianism. His important *Complete School of Piano Technique for the Pianoforte*, for example, was a guiding influence for Igor’s piano writing, although these etudes have now fallen out of favor and are hardly known.⁷⁵

Beyond the immediate utility with which Phillip’s exercises served Stravinsky’s preparation to perform works for piano and orchestra, Stravinsky evidently remained attached to them for much of the rest of his life, as Griffiths notes:

Vera Stravinsky and Robert Craft, who cite Klemperer in 1978, confirm the profound impact of the composer’s association with Philipp stating that Stravinsky based his whole piano-training ritual upon a key Philipp text for more than two decades subsequent to this initial and possibly sole course of lessons... here is clear evidence of Stravinsky’s adoption of Philipp’s didactic literature as the basis for his piano technique throughout his fifteen-year concert career and beyond.⁷⁶

Both Joseph and Griffiths enticingly suggest possible connections between Stravinsky’s piano writing and the pedagogic compositions of Isidor Phillip, but neither undertakes a close, side-by-

⁷⁵ Joseph, *Stravinsky Inside Out*, 77.

⁷⁶ Griffiths, *Stravinsky’s Piano: Genesis of a Musical Language*, 175.

side reading which might conclusively demonstrate such connections. Joseph goes so far as to illuminate the specific types of exercises that Stravinsky is likely to have practiced most:

Igor's copy of Philipp's exercises... is abundantly marked. Exercises built on the chromatic scale, as well as those employing short arpeggios, octaves, and double sixths, were particularly helpful, and he carefully dated them to track his progress. While this valuable primary source demonstrates how seriously Stravinsky took his piano practice, it also helps explain the composer's unique compositional approach to the keyboard. Those familiar with the Piano Concerto, and the slightly later *Sonata* and *Serenade en la*, will immediately understand; it is impossible to miss their reliance on Philipp's exercises as useful models. Many of the compositional sketches for these works reveal that Stravinsky experimented with various fingerings for certain sections that are similar to those found in his copy of Philipp's manual. Much of the idiosyncratic passage work of Stravinsky's piano writing in the 1920s owes greatly to Philipp's influence.⁷⁷

Far from threatening the quality and originality of Stravinsky's piano music, Joseph's claim that humble finger exercises could provide Stravinsky a kind of "model" serves to bring his music back to the realm of the immediately tangible and—that overriding concern of the great composer—the bodily and the kinesthetic. We can locate this thread in Stravinsky's own words, as he describes his decidedly finger-oriented experience composing his 1919 work *Piano Rag Music*:

I returned to Morges, and finished a piano piece I had begun some time before with Artur Rubinstein and his strong, agile, clever fingers in mind. I dedicated this *Piano Rag Music* to him. I was inspired by the same ideas, and my aim was the same, as in *Ragtime*, but in this case I stressed the percussion possibilities of the piano. What fascinated me most of all in the work was that the different rhythmic episodes were dictated by the fingers themselves. My own fingers seemed to enjoy it so much that I began to practice the piece; not that I wanted to play it in public—my pianistic repertoire even today is too limited to fill a recital program—but simply for my personal satisfaction. Fingers are not to be despised: they are the great

⁷⁷ Joseph, *Stravinsky Inside Out*, 79–80.

inspirers, and, in contact with a musical instrument, often given birth to subconscious ideas which might otherwise never come to life.⁷⁸

In the “strong, agile, clever fingers” that Stravinsky celebrates we find again an unconscious echo of his pianistic-pedagogical grandfather Leschetizky, who boldly claimed, “If you have anything to say at the piano, say it with your fingers!”⁷⁹ It seems that Stravinsky, whether or not he actually heard this exhortation, enacted Leschetizky’s sentiment not as a performer but as a composer, in that he willingly imbued the fingers themselves with a level of creative agency few other composers would dare to attempt. Yet underpinning closer examinations of Stravinsky’s piano music, and discussions of possible links to pedagogical models, should be an awareness of the composer’s abiding trust in the quality and durability of his spontaneously generated material, whatever its latent source may be, and a faith of the composer’s sincerity in employing those materials without recourse to parody or pastiche. Consider, by way of counterexample, the delightfully tongue-in-cheek passagework with which Shostakovich crowns his Second Piano Concerto:

FIGURE 37.

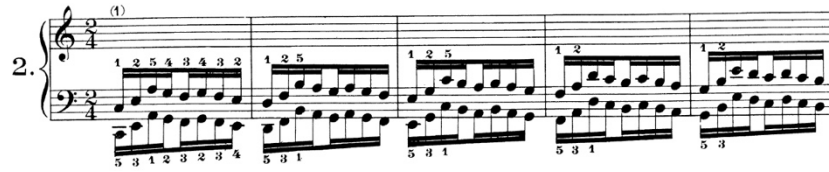


A more deliberate reference to Hanon’s *The Virtuoso Pianist* could hardly be possible:

FIGURE 38.

⁷⁸ Stravinsky, *An Autobiography*, 82.

⁷⁹ Woodhouse, “How Leschetizky Taught,” 221.



The spirit

in which

Shostakovich makes this reference, unlike many instances of reference within his music, is not bitter or mocking, but lighthearted, almost frolicking. And yet the fact remains that in this instance, Hanon still serves as a source of humor. In a work lovingly dedicated to his son to perform at his graduation from conservatory, Shostakovich clearly wants to give the pianist a good-natured touse, as if to say, “See, you *do* need to practice those exercises!” And while many more instances of pedagogic “ribbing” can be found in piano literature,⁸⁰ I propose that this is emphatically *not* the spirit in which pedagogical influences manifest within Stravinsky’s music. Stravinsky professed much admiration for the utility and improvement which technical exercises could offer him; he found the Phillip exercises to be of great value, and it seems doubtful that he would subject them to intentional pastiche. Unlike his somewhat mixed feelings about the perhaps over-played repertoire to which he was continually subjected as a youth, Stravinsky seems to have encountered Phillip on his own terms and thus to have engendered a less complicated sense of respect for that pedagogue. Likewise, he expressed remarkable admiration for the now generally neglected composer and pedagogue Carl Czerny, as quoted in Chapter 2. Apparently, this approval was won through many hours of diligent practice, as Joseph notes:

I found in Stravinsky’s library in Basel his greatly worn copy of Czerny’s [Forty Daily Exercises] Op. 337.

It was bountifully marked with his fingerings, along with his own metronomic calibrations, methodically

⁸⁰ See, for example, the first of Debussy’s *Études*, in which an unbearably dry five-finger pattern finds itself irresistibly enchanted into a colorful gigue, as if Debussy cast the musical equivalent of the spell that transforms a lumpy pumpkin into a magnificent royal carriage.

charting his daily progress toward attaining the optimum speed Czerny designates. Even more relevant, several of Czerny's figurations provide a clear pianistic model for Stravinsky's *Capriccio*. Indeed, the 1929 opus virtually lifts passages from Czerny that the composer obviously studied and marked. And like the Philipp exercises, several of Czerny's etudes (all bearing the composer's notations) had provided Stravinsky with an important compositional prototype for the earlier Concerto for Piano and Winds in 1923.⁸¹

Taken together as a significant source of technical exercises for the composer's mature years, it seems reasonable to conclude that Czerny and Phillip exercised some amount of influence on Stravinsky's pianistic writing in his mature works. This influence would have, at the very least, been manifested through hand-memories of material so diligently practiced; however, unlike the repertoire imprints of childhood, which seem to stick indelibly regardless of the composer's opinions about the music at hand, the Czerny and Phillip technical exercises possess a genuine kinship with the music bearing their stamp. Whereas in the previous chapter, we saw instances in which Stravinsky's echoes of Beethoven could be construed as vengefully taking the older composer to task, the pedagogical material addressed here appears to have offered to Stravinsky the simple utility of pianistic models well-suited to his mode of music expression.

Griffiths writes of how Phillip's piano pedagogy was an almost ideal counterpart to Stravinsky's views on musical execution: his emphasis on "clear articulation, sparing use of the pedal, the *jeu perle*—and total respect for the composer's score."⁸² As such, it seems likely that if Stravinsky borrowed from Czerny or Phillip, the act sprung not only from his hand-memories of engrained practice material, but also from a sincere respect for, and desire to emulate, the

⁸¹ Joseph, *Stravinsky Inside Out*, 91.

⁸² Griffiths, *Stravinsky's Piano: Genesis of a Musical Language*, 179.

clear, dry, “objective” keyboard style manifested by these two pedagogically-oriented composers.

The exercises in Phillip’s *Exercises for the Independence of the Fingers* merit special consideration for the fact that they utilize, almost exclusively, fully diminished seventh chords; in this sense, they contrast radically with many other exercise books. Hanon’s *Virtuoso Pianist*, for example, utilizes only white-key patterns for more than two-thirds its length, and while these exercises can be easily transposed into other keys, the printed score presents, for the most part, a stream of pitches unencumbered by accidentals or key signatures. And while other pedagogical exercise collections, such as Brahms’s, Liszt’s, Dohnányi’s, and, indeed, Czerny’s, do contain varying levels of chromatic activity, none approach the density of mixed accidentals that Phillip’s provides. Beyond the continual stream of mixed accidentals, however, the Phillip *Exercises* also make use of continuous re-texturing; far from merely changing the order of fingers or the contour of line, Phillip’s *Exercises* displays a marked awareness of various textural possibilities available within a mechanistic framework by making use of multi-voice patterns enacting imitative counterpoint, the sense foreground and background, the use of shifting accent patterns, and other musical techniques generally much more sophisticated than many other pedagogical keyboard manuals. Several representative examples of Phillip’s *Exercises* are given below.

FIGURE 39.

The figure displays four musical excerpts from Phillip's *Exercises for the Independence of the Fingers*. Each excerpt is presented in a grand staff (treble and bass clefs). The top-left excerpt (measures 21-24) and top-right excerpt (measures 1-4) show dense, multi-voice textures with frequent accidentals. The bottom-left excerpt (measures 17-20) features a similar complex texture. The bottom-right excerpt (measures 5-8) is labeled 'Right hand' and 'm.d.' (mezzo-dolce), showing a more rhythmic texture with fingerings indicated by numbers 1-5.

In this sense, the Phillip *Exercises* appear—visually—similar to much of the keyboard writing of Stravinsky. In fact, the subtlety and variety of Phillip’s approach to the keyboard sometimes elevates his exercises tantalizingly close to becoming proper musical compositions in their own right; even the small handful of examples above would easily furnish enough textural interest to carry a substantial amount of musical material. It is not difficult to imagine how, provided with compelling original musical material, Phillip’s *Exercises* could readily serve as the keyboard-idiomatic framework for a solo piano work or a piano concerto. Indeed, this seems to have been exactly what transpired in Stravinsky’s sublimation of this practice material; like so many other sources of inspiration, it had to enter through that most porous of surfaces, the tips of his fingers. This is not to say that Stravinsky “needed” Phillip’s exercises in order to compose his Piano Concerto, but rather that a composer brimming with raw material may have benefitted greatly from tapping into a source of “ready-made” molds into which to pour his original ideas.

Whereas in the previous chapter, we saw examples of Stravinsky’s hand-memories as unintentional artifacts of concert repertoire, here we have seen some evidence that Stravinsky’s composition embraced pedagogical repertoire as well. Rarely do composers cite pedagogical works except, as noted, for the purpose of humor or parody. Stravinsky’s idiom, however, found more subtle adaptations of pedagogical keyboard material. Thanks to Stravinsky’s musical priorities of precision, clarity, and unaffected directness of execution, he was able to freely lift pianistic textural frameworks from Czerny and Phillip, whose pedagogical works, by their very nature, abide by the same priorities. For other composers, reference to established teaching materials usually takes the form of pastiche and thus constitutes a stepping *outside* their normal idiom. Stravinsky, however, absorbs this material seamlessly into his general style, and in doing so accomplishes what the other composers do not: an elevation of that material. It seems fitting

that a composer whose intellectual appetite was so wide and voracious would find, in music that most others write off as merely training exercises, the inspiration for a unique keyboard language.

CHAPTER 5: “WE HAVE TO TOUCH THE MUSIC”

In a 1957 interview for NBC’s *The Wisdom Series*, Stravinsky is filmed in his Hollywood home “working” on *Agon* (the score had already been completed and was being premiered in two days) and fielding questions from Robert Craft. As the scene fades in, Stravinsky is seated at the piano, testing ideas at the keyboard and then drawing staves onto blank pages with his staff-drawing pen. He calls on Craft to help in trying out an idea that requires more than his two hands, and then delivers what might be considered a credo:

We have to *touch* the music, not only to hear it. Because touching it, we feel the vibration of the music. It’s a very important thing when you think about Beethoven’s case. You remember when Beethoven was absolutely deaf, he took his stick in his mouth, like this pencil, and he played the music—*touching* the stand: to have the vibrations. Because he needed to enjoy the vibrations, otherwise the music was an abstract matter for him. And this is what he didn’t want.⁸³

Craft cuts in: “Do your ideas always occur to you at the piano?,” to which Stravinsky responds, “Mostly at the piano, mostly when I touch the instrument... When I am looking for some distance of my fingers, which correspond to intervals, and these intervals are really musical ideas.” Stravinsky’s near obsession with experiencing his music as a tangible—literally *touchable*—object forms a thread that runs through his entire life. The above statements echo very closely one made in his *Autobiography* two decades earlier, when he recalls encountering a string orchestra containing the instrument he calls the “cymbalon” (today usually spelled

⁸³ *A Conversation with Igor Stravinsky, 1957*, YouTube video, NBC’s *Wisdom Series*, accessed September 6, 2021, <https://www.youtube.com/watch?v=oJIXobO94Jo>.

“cymbalon”), a type of hammered dulcimer upon which the performer strikes the exposed strings with wooden sticks:

I was captivated by [the cymbalon] which delighted me by its rich, full tone and by the player’s direct contact with the strings through the little sticks held between his fingers, and even by its trapezoid shape.⁸⁴

The delight with which Stravinsky describes the cymbalon surely finds analogy with his delight in the act of musical composition as a tactile process. In this sense, we can almost imagine that, at the deepest level of Stravinsky’s compositional intuition, the piano becomes inconsequential. This may seem a shocking statement at the close of this monograph, when, indeed, all the evidence from Stravinsky’s compositional



FIGURE 40.

world leads back to the piano as, in Joseph’s words, his “compositional fulcrum.” But perhaps it is not so much the *piano*, per se, that forms Stravinsky’s composition fulcrum, as it is his very *physical nature*, a nature in which the piano happens to be, by overwhelming cultural pressure, the central nexus at which most composers must discover and hone the very essence of their musical identity. It is true that Stravinsky’s music is, through and through, undeniably and intrinsically “pianistic”; the shape of the keyboard, as well as the shape of the composer’s hands, find expression in everything the composer wrote. And surely there exist other composers whose

⁸⁴ Stravinsky, *An Autobiography*, 61.

inner musical experiences were also innately tactile but expressed via a different instrument. Perhaps similar arguments can be made for Paganini and the neck of the violin, or Tárrega and the fretboard of the guitar, and similar searches undertaken of how they subsumed their own hand-memories of learned repertoire to re-compose those memories later in transcendent forms. The point is not necessarily a desire to move Stravinsky scholarship closer to the *keyboard*—although that does seem to remain extremely under-tilled soil—but to seek more Roger Shattuck’s vision of the composer’s “corporeal imagination,” and how that imagination might have manifested itself in contributing to the composer’s music. Indeed, for Shattuck, the piano was *not* the central issue, coming as it does *between* the composer’s body and the composer’s music; rather, for Shattuck the composer’s body *itself* was the issue:

[Stravinsky] composed with his whole body, not just with his enormous ears and sharp eyes... This son of a famous opera singer loved amateur theatrical before he loved the piano... I think it’s essential to understand that S.’s music emanates from a whole dancing body, his own.⁸⁵

Shattuck’s image of the great composer is that of an irrepressibly active physical presence, one which could not help but move and gesticulate and vibrate in all manners and with the greatest energy. To Shattuck, the man’s music emanates not from the keyboard, but from this body: regarding a photograph of Stravinsky doing gymnastics, Shattuck claims “a musical psychoarcheologist could reconstruct all his music from that one image.”⁸⁶ This is not too bold a claim for a composer who once stated:

⁸⁵ Shattuck, “The Devil’s Dance: Stravinsky’s Corporal Imagination,” 84.

⁸⁶ Shattuck, “The Devil’s Dance: Stravinsky’s Corporal Imagination,” 83.

I have always had a horror of listening to music with my eyes shut, with nothing for them to do. The sight of the gestures and movements of the various parts of the body producing the music is fundamentally necessary if it is to be grasped in all its fullness.⁸⁷

The human body, then, takes a central place in Stravinsky's experience of music—perhaps even of life itself, as Joseph notes, “He regularly recounted his life in terms of memorable visual images... These snapshots exhibit an abiding interest in the human body's physical energy.”⁸⁸

This seems, at first, to contradict the central claim of this monograph, that the *keyboard* is central to the composer's output. Yet a bridge can, and should, be made between the bodily-holistic “corporeal imagination” of Shattuck and the “keyboard as compositional fulcrum” of Joseph and Griffiths. That bridge is the undeniable fact that Stravinsky ultimately chose, always, to channel this tremendous bodily physical imagination through the keyboard. Even before it would be a “fulcrum,” the keyboard would have to be Stravinsky's “clearinghouse,” the place where his physical impulses could be converted into musical currency. Perhaps other composers—such as Paganini and Tárrega—built similar tendencies and capabilities into other instruments, and Stravinsky's fascination with the cimbalon does suggest that he was aware of the possibilities of “making contact” with music through instruments other than the piano. In fact, just as Stravinsky worried over the composition of his works for piano and orchestra, wishing to provide a suitable vessel for virtuosic technique without sacrificing musical integrity, so too did he fret over his *Violin Concerto*; in the latter case, tellingly, his concern was magnified by the fact that he did not play violin:

⁸⁷ Stravinsky, *An Autobiography*, 72.

⁸⁸ Joseph, *Stravinsky Inside Out*, 112–113.

I hesitated [in writing a violin concerto] at first, because I am not a violinist, and I was afraid that my slight knowledge of that instrument would not be sufficient to enable me to solve the many problems which would necessarily arise in the course of a major work specially composed for it.⁸⁹

This concern, of course, is not precipitated in general matters of orchestration: Stravinsky draws the reasonable conclusion that his concerning lack of firsthand knowledge of the instrument is engendered only in the special circumstance of composing a concerto for it. (Mendelssohn was delayed in the composition of his own Violin Concerto for the same reason, and surely many more composers have experienced the same need for careful research and consultation with performers when composing a concerto for an instrument that they themselves do not play.) And yet when Stravinsky goes on to describe the nature of his concern, he again delivers a kind of personal compositional credo, that the music should quite literally be “in one’s finger tips”:

I was not a complete novice in handling the violin... But a concerto certainly offered a far vaster field of experience. To know the technical possibilities of an instrument without being able to play it is one thing; to have that technique in one’s finger tips is quite another. I realized the difference, and before beginning the work I consulted Hindemith, who is a perfect violinist. I asked him whether the fact that I did not play the violin would make itself felt in my composition. Not only did he allay my doubts, but he went further and told me that it would be a very good thing, as it would make me avoid a routine technique, and would give rise to ideas which would not be suggested by the familiar movement of the fingers.⁹⁰

Here we find the closest thing to a confession Stravinsky might have made on the topic: that of musical content being “suggested by the familiar movement of the fingers.” In accepting Hindemith’s advice that his Violin Concerto serendipitously avoids such a “problem,” as it were,

⁸⁹ Stravinsky, *An Autobiography*, 165.

⁹⁰ Stravinsky, *An Autobiography*, 168.

Stravinsky tacitly confesses that other works, especially those involving the piano, would be susceptible to such a “finger influence.”

Of course, as we have seen, this is not really a problem at all. As shown above, those seemingly “familiar” patterns of movement to which Stravinsky was certainly prone become anything but “familiar” when transformed through the composer’s imagination and ingenuity. What might be, to the composer, merely another repetition of an all-too-familiar sequence of fingers-upon-keys, must, before making its way to paper, first pass through the composer’s mind and body, where it finds itself subjected to a kind of alchemy that renders it into a startlingly fresh, new creation. That creation is what we see on the page. Hence, we should find no discomfort in Stravinsky’s acceptance of “familiar movement of the fingers,” as *his* sense of “familiarity” becomes, to the rest of us, the stunningly original.

BIBLIOGRAPHY

- A Conversation with Igor Stravinsky, 1957*. YouTube video. NBC's Wisdom Series. Accessed September 6, 2021. <https://www.youtube.com/watch?v=oJIXobO94Jo>.
- Andriessen, Louis, and Jonathan Cross. "Composing with Stravinsky." In *The Cambridge Companion to Stravinsky*. Cambridge: Cambridge University Press, 2003.
- Bañagale, Ryan Raul. "Concert Jazz." Oxford University Press, October 2012. <https://doi.org/10.1093/gmo/9781561592630.article.A2228141>.
- Bloom, Harold. *The Anxiety of Influence: A Theory of Poetry*. New York: Oxford University Press, 1973.
- Bonet, Narcis. *The Fundamental Principles of Harmony*. Barcelona: Dinsic, 2010.
- Deahl, Lora. "Robert Schumann's 'Album for the Young' and the Coming of Age of Nineteenth-Century Piano Pedagogy." *College Music Symposium* 41 (2001): 25–42.
- Dupree, Mary Herron. "'Jazz,' the Critics, and American Art Music in the 1920s." *American Music* 4, no. 3 (1986): 287–301. <https://doi.org/10.2307/3051611>.
- Emerson, Ralph Waldo. *Self-Reliance and Other Essays*. New York: Dover Publications, 1993.
- Forte, Allen. *The Harmonic Organization of the Rite of Spring*. New Haven: Yale University Press, 1978.
- Fox, Arthur. "How Many Possible Chords Are There In Music?" *Arthur Fox Music* (blog). Accessed September 15, 2021. <https://arthurfoxmusic.com/how-many-possible-chords/>.
- Gärtner, H, M Minnerop, P Pieperhoff, A Schleicher, K Zilles, E Altenmüller, and K Amunts. "Brain Morphometry Shows Effects of Long-Term Musical Practice in Middle-Aged Keyboard Players." *Frontiers in Psychology* 4 (September 23, 2013): 636. <https://doi.org/10.3389/fpsyg.2013.00636>.
- Griffiths, Graham. *Stravinsky's Piano: Genesis of a Musical Language*. Music Since 1900. Cambridge: Cambridge University Press, 2013.
- Herholz, Sibylle C., and Robert J. Zatorre. "Musical Training as a Framework for Brain Plasticity: Behavior, Function, and Structure." *Neuron* 76, no. 3 (2012): 486–502. <https://doi.org/10.1016/j.neuron.2012.10.011>.
- Hill, Peter. *Stravinsky: The Rite of Spring*. Cambridge: Cambridge University Press, 2000.

- Houdayer, Elise, Marco Cursi, Arturo Nuara, Sonia Zanini, Roberto Gatti, Giancarlo Comi, and Letizia Leocani. "Cortical Motor Circuits after Piano Training in Adulthood: Neurophysiologic Evidence." *PloS One* 11, no. 6 (June 16, 2016): e0157526–e0157526. <https://doi.org/10.1371/journal.pone.0157526>.
- Howat, Roy. *The Art of French Piano Music*. London: Yale University Press, 2009.
- Joseph, Charles M. *Stravinsky and the Piano*. Russian Music Studies 8. Ann Arbor: UMI Research Press, 1983.
- Joseph, Charles M. *Stravinsky Inside Out*. New Haven: Yale University Press, 2001.
- MariyaZ. "Roman Kumlyk, Owner of Museum of Musical Instruments and Hutsuls Lifestyle in Verkhovyna, Western Ukraine." Wikimedia. Accessed October 12, 2021. https://commons.wikimedia.org/wiki/File:Roman_Kumlyk,_owner_of_Museum_of_Musical_Instruments_and_Hutsuls_Lifestyle_in_Verkhovyna,_Western_Ukraine.jpg.
- Rosen, Charles. *Beethoven's Piano Sonatas: A Short Companion*. New Haven: Yale University Press, 2002.
- Shannon, Claude E. "Programming a Computer for Playing Chess." *Philosophical Magazine*, 7, 41, no. 314 (1950).
- Shattuck, Roger. "The Devil's Dance: Stravinsky's Corporal Imagination." In *Confronting Stravinsky*. Los Angeles: University of California Press, 1986.
- Steele, Christopher J, Jennifer A Bailey, Robert J Zatorre, and Virginia B Penhune. "Early Musical Training and White-Matter Plasticity in the Corpus Callosum: Evidence for a Sensitive Period." *The Journal of Neuroscience : The Official Journal of the Society for Neuroscience* 33, no. 3 (January 16, 2013): 1282–90. <https://doi.org/10.1523/JNEUROSCI.3578-12.2013>.
- Stravinsky, Igor. *An Autobiography*. New York: Norton, 1962.
- Stravinsky, Igor. *Poetics of Music: In the Form of Six Lessons*. Cambridge: Harvard University Press, 2003.
- Stravinsky, Igor, and Robert Craft. *Themes and Conclusions*. London: Faber and Faber, 1972.
- Taruskin, Richard. *Stravinsky and the Russian Traditions*. Berkeley: University of California Press, 1996.
- Toorn, Pieter C. van den. *Stravinsky and The Rite of Spring: The Beginnings of a Musical Language*. Berkeley: University of California Press, 1987.
- Waters, Edward N. "Gershwin's 'Rhapsody in Blue.'" *Quarterly Journal of Current Acquisitions* 4, no. 3 (1947): 65–66.

White, Eric Walter. *Stravinsky: The Composer and His Works*. Berkeley: University of California Press, 1966.

Woodhouse, George. "How Leschetizky Taught." *Music & Letters* 35, no. 3 (1954): 220–26.



Kenneth Glendon Brown

Opus Anachronicon
Preludes and Fugues for Piano

Kenneth Glendon Brown (b. 1992)

Opus Anachronicon
Preludes and Fugues for Piano

Composed 2020 - 2022 as part of the composer's doctoral dissertation in music at UCLA.

Copyright © 2022 by Kenneth Glendon Brown (ASCAP). All Rights Reserved.

***THIS COPY OF THE SCORE IS FOR DISSERTATION SUBMISSION ONLY. IT IS SCALED AND
FORMATTED FOR THE DISSERTATION ELECTRONIC FILING REQUIREMENTS.***

THIS IS NOT A PERFORMANCE OR STUDY COPY.

PLEASE CONTACT THE COMPOSER FOR A PERFORMANCE OR STUDY COPY OF THIS SCORE:

kennethglendonbrown.com
or
kennethglendonbrown@gmail.com

Performance Practices

The metronome marks may always be treated as approximate, and the performer should feel free to deviate a few "clicks" in either direction of the stated metronome marking. In general, organic and natural phrasing is of high importance; thus judicious *rubato* and a flexible sense of tempo are encouraged.

Pedalling is generally entrusted to the performer's taste and discretion. Except where otherwise noted, the pedal should be used liberally, in accordance with the harmony. To this end, I trust that the performer's ears, their musical sensibility, as well as the infinite nuances of their individual instrument and their sonic environment, will all lead them to far more sensitive, subtle and intelligent pedalling decisions than I could hope to exhaustively prescribe in the score. Thus, only when a counter-intuitive pedalling or a particular effect is needed, is the pedal explicitly indicated.

Performers are welcome to perform movements individually. While performers may, if they wish, perform the preludes individually as short concert pieces, it is ideal that the preludes and fugues always be performed together in their respective pairs. When performed in this manner, each fugue should follow *attacca* from its preceding prelude.

The Conception of the Set

I conceived *Opus Anachronicon* as a set of 24 Preludes and Fugues in all the major and minor keys, a contemporary tribute to the *Well-Tempered Clavier* following the precedent set by Shostakovich and Hindemith.

I created an original manner of ordering the pieces: each major key is followed by its minor subdominant, and this pairing ascends chromatically. (Thus C Major, f minor, D-flat major, f# minor, etc.). When the set is heard in its entirety, this unique ordering of keys creates a progressive "shading" in which each piece may be heard as successively "flatter" than the next, with the effect that the set continually falls further and further into darkness and dreams.

Due to the time constraint of submitting this work as part of my doctoral dissertation, I completed all 24 Preludes but only 12 of the Fugues. After much deliberation and re-shuffling of the set, I decided that, rather than excise some combination of movements and present the set as, say, 24 Preludes, or as 12 Preludes and Fugues, I would retain all of the complete movements in their original ordering and pairings, which, despite the somewhat haphazard result, is as close as possible to my original vision. Thus the set as it stands here is somewhat incomplete. Eventually I will compose the 12 remaining fugues and publish the set as originally envisioned.

Acknowledgements

I am grateful to my composition teacher, Dr. Richard Danielpour, for years of continual support and guidance in my studies at UCLA. This composition also owes much to my good friend and colleague, Brandon Zhou, for his patient listening and insightful criticism.

INDEX

<p>Prelude I</p> <p>Serenely flowing, unhurried $\text{♩} = 120$ <i>p cantabile dolce</i></p> 	<p>Fugue I</p> <p>Allegro amabile $\text{♩} = 144$ <i>f</i></p> 
<p>Prelude II</p> <p>With motion, gracefully $\text{♩} = 72$ <i>f sempre legatissimo</i></p> 	<p>Fugue II</p> <p>Lento e mesto $\text{♩} = 60$ <i>p</i></p> 
<p>Prelude III</p> <p>Like an aria $\text{♩} = 92$ <i>p ben canto</i></p> 	<p>Fugue III</p> <p>Allegretto scherzando $\text{♩} = 132$ <i>p</i></p> 
<p>Prelude IV</p> <p>Hesitantly, shyly $\text{♩} = 92$ <i>p</i></p> 	<p>[Fugue IV]</p>
<p>Prelude V</p> <p>Freely and spaciouly $\text{♩} = 84$ <i>f con nonpulsop</i></p> 	<p>Fugue V</p> <p>Gently and gracefully flowing $\text{♩} = 60$ <i>p sotto voce</i></p> 
<p>Prelude VI</p> <p>Freely, quasi improvvisando $\text{♩} = \text{ca. } 72$ <i>mf</i></p> 	<p>[Fugue VI]</p>
<p>Prelude VII</p> <p>Come un'aria, molto cantabile con rubato $\text{♩} = 60$ <i>p innocentemente</i></p> 	<p>Fugue VII</p> <p>Largo, elegante e nobilmente $\text{♩} = 40$ <i>f molto sonoro (never harsh)</i> <i>sempre legato</i></p> 
<p>Prelude VIII</p> <p>Very spacious $\text{♩} = 66$ <i>fff granitic</i></p> 	<p>[Fugue VIII]</p>
<p>Prelude IX</p> <p>Fleeting, luminescent $\text{♩} = 160$ <i>f incisivo e poco martellato</i> <i>Half Ped.</i></p> 	<p>Fugue IX</p> <p>Allegro con gioia $\text{♩} = 132$ <i>f playfully</i></p> 
<p>Prelude X</p> <p>Volante $\text{♩} = 152$ <i>p sempre staccatissimo e leggero</i> <i>secco (senza ped.)</i></p> 	<p>[Fugue X]</p>
<p>Prelude XI</p> <p>Unpretentiously, with tender sentiment $\text{♩} = 104$ <i>p cantabile dolce</i></p> 	<p>Fugue XI</p> <p>Allegro giocoso $\text{♩} = 92$ <i>p leggero</i></p> 
<p>Prelude XII</p> <p>Coldly, distantly $\text{♩} = 63$ <i>p</i></p> 	<p>Fugue XII</p> <p>Fluttering, ephemeral <i>p</i> <i>fp</i> <i>f</i></p> 

Prelude XIII	<p>Slowly and peacefully $\text{♩} = 60$</p> <p><i>p</i> <i>hieratique</i></p>	Fugue XIII	<p>Moderato $\text{♩} = 60$</p> <p><i>p</i></p>
Prelude XIV	<p>Rambunctiously, with child-like energy $\text{♩} = 144$</p> <p><i>f</i></p>	[Fugue XIV]	
Prelude XV	<p>Animato, scorrevole $\text{♩} = 72$</p> <p><i>p</i></p> <p><i>seco</i></p> <p>Like a music box, very calmly and gently $\text{♩} = 100$</p> <p><i>segue</i></p>	Fugue XV	<p>Agilmente $\text{♩} = 112$</p> <p><i>p</i> <i>leggiero</i></p>
Prelude XVI	<p><i>p</i> <i>lontano delictissima</i></p> <p>una corda</p> <p>Floating, ethereal $\text{♩} = 138$</p> <p><i>so</i></p>	[Fugue XVI]	
Prelude XVII	<p><i>p</i> <i>sotto voce</i></p>	[Fugue XVII]	
Prelude XVIII	<p>Quick and light, like a dance $\text{♩} = 168$</p> <p><i>p</i> <i>misterioso</i></p>	[Fugue XVIII]	
Prelude XIX	<p>Dream-like, "timeless" $\text{♩} = 40$</p> <p><i>p</i></p>	[Fugue XIX]	
Prelude XX	<p>Tranquillamente $\text{♩} = 60$</p> <p><i>p</i></p>	[Fugue XX]	
Prelude XXI	<p>Gently and sadly $\text{♩} = 72$</p> <p><i>p</i> <i>sempre</i></p>	[Fugue XXI]	
Prelude XXII	<p>Gracefully flowing $\text{♩} = 72$</p> <p><i>p</i> <i>gently</i></p>	[Fugue XXII]	
Prelude XXIII	<p>Slowly, intimately $\text{♩} = 116$</p> <p><i>p</i> <i>mf</i> <i>p</i> <i>p</i></p>	Fugue XXIII	<p>Andante molto moderato $\text{♩} = 60$</p> <p><i>p</i> <i>cantabile dolce</i></p> <p><i>sempre legato</i></p>
Prelude XIV		Fugue XIV	<p><i>p</i> <i>cantabile</i></p>

Opus Anachronicon

Kenneth Glendon Brown (b. 1992)

Prelude I

Serenely flowing, unhurried ♩ = 120

p cantabile dolce

p

9 *v*

poco rit. *A tempo*

p

18

25

p *cresc.*

ped. *ped.*

33

rit..... A tempo

f *dim.* *p*

Ped. Ped.

40

rit..... A tempo

cresc. *f* *p come prima*

47

55

A tempo

ff

64

dim.

This system contains measures 64 through 70. The right hand features a melodic line with eighth and sixteenth notes, often beamed together. The left hand provides a harmonic accompaniment with chords and moving lines. A *dim.* (diminuendo) marking is present in measure 65. The system concludes with a double bar line.

71

poco rit.

A tempo

dim.

p tranquillo

This system contains measures 71 through 75. It begins with a *poco rit.* (poco ritardando) marking. The right hand continues with melodic phrases, while the left hand has a steady accompaniment. A *dim.* marking is in measure 71. At measure 74, the tempo changes to *A tempo*. The system ends with a *p* *tranquillo* marking in measure 75, followed by a double bar line.

76

This system contains measures 76 through 80. The right hand has a melodic line with some rests, and the left hand has a more active accompaniment with chords and moving lines. The system concludes with a double bar line.

Fugue I

Allegro amabile ♩ = 144

Musical notation for measures 1-6. The piece is in 3/4 time. Measure 1 starts with a forte (*f*) dynamic. The right hand features a melodic line with eighth and sixteenth notes, while the left hand provides a steady bass accompaniment.

Musical notation for measures 7-13. Measure 7 is marked with a *mf* dynamic. Measure 8 includes a *mf* dynamic marking. Measure 9 features a *p sub.* dynamic marking. The right hand continues with a melodic line, and the left hand maintains the bass accompaniment.

Musical notation for measures 14-20. Measure 14 is marked with a *f* dynamic. Measure 15 includes a *f* dynamic marking. Measure 16 features a *fp* dynamic marking. The right hand continues with a melodic line, and the left hand maintains the bass accompaniment.

Musical notation for measures 21-26. Measure 21 is marked with a *f* dynamic. Measure 22 includes a *f* dynamic marking. Measure 23 features a *f* dynamic marking. The right hand continues with a melodic line, and the left hand maintains the bass accompaniment.

Musical notation for measures 27-32. Measure 27 is marked with a *f* dynamic. Measure 28 includes a *f* dynamic marking. Measure 29 features a *f* dynamic marking. The right hand continues with a melodic line, and the left hand maintains the bass accompaniment.

33

f *p*

39

cresc. *p sub. e dolce*

45

fp cresc.

poco rit......*Poco meno mosso*

51

ff

A tempo

58

mf sub.

64

cresc.

molto rit.....

A tempo

69

ff *p* *L.H.* *cresc.*

75

rit.....A piacere

80

The musical score consists of two staves: a treble clef staff (right hand) and a bass clef staff (left hand). The key signature is one sharp (F#), and the time signature is 4/4. The piece begins at measure 80 with a tempo marking of 'rit.' (ritardando). The melody in the right hand starts on G4 and moves through A4, B4, C5, B4, A4, G4, F#4, E4, D4, C4. The left hand provides a harmonic accompaniment with chords and moving lines. At measure 84, the tempo changes to 'A piacere' (ad libitum), and the melody continues with a fermata over the final notes.

13

Musical score for measures 13-15. The piece is in a minor key, indicated by three flats in the key signature. The music features a complex texture with multiple voices in both the treble and bass staves. Measure 13 begins with a treble clef staff containing a melodic line with a dotted quarter note and an eighth note, followed by a series of eighth notes. The bass clef staff provides a rhythmic accompaniment with eighth notes. Measure 14 shows a continuation of the melodic line in the treble, with a dynamic accent (>) over a note. Measure 15 concludes the system with a final note in the treble and a sustained bass line.

16

Musical score for measures 16-18. The texture continues with intricate melodic and harmonic relationships. Measure 16 features a treble clef staff with a melodic line that includes a dynamic accent (>) and a series of eighth notes. The bass clef staff has a steady eighth-note accompaniment. Measure 17 shows a continuation of the melodic line in the treble, with a dynamic accent (>) over a note. Measure 18 concludes the system with a final note in the treble and a sustained bass line.

19

Musical score for measures 19-21. The music continues with a complex texture. Measure 19 features a treble clef staff with a melodic line that includes a dynamic accent (>) and a series of eighth notes. The bass clef staff has a steady eighth-note accompaniment. Measure 20 shows a continuation of the melodic line in the treble, with a dynamic accent (>) over a note. Measure 21 concludes the system with a final note in the treble and a sustained bass line.

22

Musical score for measures 22-24. The music continues with a complex texture. Measure 22 features a treble clef staff with a melodic line that includes a dynamic accent (>) and a series of eighth notes. The bass clef staff has a steady eighth-note accompaniment. Measure 23 shows a continuation of the melodic line in the treble, with a dynamic accent (>) over a note. Measure 24 concludes the system with a final note in the treble and a sustained bass line. The piece ends with a double bar line and a 9/16 time signature.

cresc. molto

9/16

25 **allargando**

mp sub. *cresc.*

28 *8va* **ff**

Precipitando *loco*

(8) **fff**

32 **A tempo** **Poco a poco rit. al fine**

p *mp espress.*

35

2

pp

Fugue II

Lento e mesto $\text{♩} = 60$

The musical score for Fugue II is presented in five systems, each with a grand staff (treble and bass clefs). The key signature is three flats (B-flat, E-flat, A-flat), and the time signature is 4/4. The tempo is marked "Lento e mesto" with a quarter note equal to 60 beats per minute. The score begins with a piano (*p*) dynamic and includes various musical notations such as slurs, ties, and trills. Measure numbers 1, 5, 9, 13, and 17 are indicated at the start of their respective systems. The piece concludes with a double bar line at the end of the fifth system.

21

Musical score for measures 21-23. Measure 21 is in 5/4 time, measure 22 is in 4/4, and measure 23 is in 4/4. The key signature has three flats. The music features complex rhythmic patterns with slurs and accents.

24

Musical score for measures 24-27. Measures 24-26 are in 4/4 time, and measure 27 is in 4/4. The key signature has three flats. The music features complex rhythmic patterns with slurs and accents.

28

Musical score for measures 28-31. Measures 28-30 are in 4/4 time, and measure 31 is in 4/4. The key signature has three flats. The music features complex rhythmic patterns with slurs and accents.

32

Musical score for measures 32-34. Measures 32-33 are in 4/4 time, and measure 34 is in 4/4. The key signature has three flats. The music features complex rhythmic patterns with slurs and accents.

35

Musical score for measures 35-40. Measures 35-40 are in 4/4 time. The key signature has three flats. The music features complex rhythmic patterns with slurs and accents.

39

Ped. *Ped.* *Ped.* *Ped.* *Ped.* *Ped.*

espress.

42

Prelude III

Like an aria ♩ = 92

p *ben canto* *mf* *>* *mp*

4 3 2 3 3 2 4

5 *f*

4 3 2 3 3 2 4

9 *f*

poco rit. *A tempo*

13 *f* *tenebroso*

Detailed description: This is a page of a piano score for 'Prelude III'. It features two systems of music, each with a treble and bass clef staff. The first system (measures 1-8) begins with a tempo marking 'Like an aria' and a quarter note equal to 92. The music is in a key with two flats. The first system includes dynamics *p* *ben canto*, *mf*, and *mp*. The second system (measures 9-12) includes the dynamic *f*. The third system (measures 13-16) includes the markings *poco rit.* and *A tempo*, and the dynamic *f* *tenebroso*. Fingerings are indicated by numbers 1-4 below notes. The score is written in a style typical of a piano solo.

17 *8va*

21 *(8)* *loco* *Poco più mosso* *ff* *fp sub. misterioso*

24 *mp cantabile e dolce*

29

poco rit.

Tempo I

33

Measures 33-36: Treble clef, bass clef. Measure 33 has a treble clef with a dotted quarter note and an eighth note. Measure 34 has a treble clef with a triplet of eighth notes. Measure 35 has a treble clef with a dotted quarter note and an eighth note. Measure 36 has a treble clef with a dotted quarter note and an eighth note. Bass clef accompaniment consists of eighth notes and chords. A dynamic marking *f* is present in measure 35.

37

Measures 37-40: Treble clef, bass clef. Measure 37 has a treble clef with a dotted quarter note and an eighth note. Measure 38 has a treble clef with a triplet of eighth notes. Measure 39 has a treble clef with a dotted quarter note and an eighth note. Measure 40 has a treble clef with a dotted quarter note and an eighth note. Bass clef accompaniment consists of eighth notes and chords. A dynamic marking *f* is present in measure 37. A *8va* marking is present in measure 38.

41

Measures 41-44: Treble clef, bass clef. Measure 41 has a treble clef with a dotted quarter note and an eighth note. Measure 42 has a treble clef with a dotted quarter note and an eighth note. Measure 43 has a treble clef with a triplet of eighth notes. Measure 44 has a treble clef with a dotted quarter note and an eighth note. Bass clef accompaniment consists of eighth notes and chords. A dynamic marking *f* is present in measure 41. A *8va* marking is present in measure 43.

45

Measures 45-49: Treble clef, bass clef. Measure 45 has a treble clef with a dotted quarter note and an eighth note. Measure 46 has a treble clef with a dotted quarter note and an eighth note. Measure 47 has a treble clef with a dotted quarter note and an eighth note. Measure 48 has a treble clef with a dotted quarter note and an eighth note. Measure 49 has a treble clef with a dotted quarter note and an eighth note. Bass clef accompaniment consists of eighth notes and chords. A dynamic marking *f* is present in measure 45.

50

Measures 50-54: Treble clef, bass clef. Measure 50 has a treble clef with a dotted quarter note and an eighth note. Measure 51 has a treble clef with a dotted quarter note and an eighth note. Measure 52 has a treble clef with a dotted quarter note and an eighth note. Measure 53 has a treble clef with a dotted quarter note and an eighth note. Measure 54 has a treble clef with a dotted quarter note and an eighth note. Bass clef accompaniment consists of eighth notes and chords. A dynamic marking *f* is present in measure 50.

rit. poco a poco al fine

54 *ff* *p sub.*

57 *p delicatissima* *pp*

8va 14

Fugue III

Allegretto scherzando ♩ = 132

Measures 1-5 of the fugue. The piece begins in the treble clef with a piano (*p*) dynamic. The key signature is three flats (B-flat major/C minor), and the time signature is 2/4. The melody features eighth-note patterns with accents and slurs. The bass clef part is silent in these measures.

Measures 6-10. The piece continues in the treble clef. The dynamic is mezzo-forte (*mf*). A crescendo (*cresc.*) is indicated. The melody continues with eighth-note patterns and accents. The bass clef part begins in measure 6 with a similar eighth-note pattern.

Measures 11-15. The piece continues in the treble clef. The dynamic is forte (*f*) in measure 11, then mezzo-piano (*mp*) in measure 12. The melody features eighth-note patterns with accents and slurs. The bass clef part continues with eighth-note patterns.

Measures 16-20. The piece continues in the treble clef. The dynamic is forte (*f*). The melody features eighth-note patterns with accents and slurs. The bass clef part continues with eighth-note patterns.

Measures 21-25. The piece continues in the treble clef. The dynamic is forte (*f*). The melody features eighth-note patterns with accents and slurs. The bass clef part continues with eighth-note patterns.

27

dim.

mp dolce

31

37

f bruscamente

42

mp dolce

47

53

f

p sub.

57

f

61

rit.....Molto meno mosso

ff

65

Tempo I

fp

cresc.

69 rit..... Poco meno mosso

f *p misterioso* *cresc.*

72 rit..... Lento

f *ff* *ff*

76 long Tempo I

mf giocoso

81

cresc. *ff* *ff* *ff*

86

86

90

90

mf

Red.

94

94

ff

dim.

Red.

99

99

poco rit.

p

f

p

(Red.)

Prelude IV

Hesitantly, shyly ♩ = 92

Musical notation for measures 1-4. The piece is in 4/4 time. The right hand features a melodic line with a triplet of eighth notes (5, 3, 2) in the first measure, followed by a series of eighth and sixteenth notes. The left hand is mostly silent, with a few notes in the final measure. Dynamics include piano (*p*) and crescendo hairpins.

Musical notation for measures 5-8. The right hand continues with eighth and sixteenth notes. The left hand has a few notes in the final measure. Dynamics include piano (*p*) and crescendo hairpins.

resist

Musical notation for measures 9-14. The right hand continues with eighth and sixteenth notes. The left hand has a few notes in the final measure. Dynamics include piano-piano (*pp*) and crescendo hairpins.

Musical notation for measures 15-18. The right hand continues with eighth and sixteenth notes. The left hand has a few notes in the final measure. Dynamics include piano (*p*) and crescendo hairpins.

inquire

Musical notation for measures 19-22. The right hand continues with eighth and sixteenth notes. The left hand has a few notes in the final measure. Dynamics include piano (*p*) and crescendo hairpins.

23

8ba. _____
Red. _____

27

p *pp*

not too firmly

31

35

make ready

39

43

p *pp*

take leave

48

p *mf*

become lucid

53

p *mf* *p* *pp* *pp*

begin

8ba
Red.

Freely and spaciouly ♩ = 84

Prelude V

Musical score for measures 1-3. The piece is in 4/4 time with a key signature of one sharp (F#). The tempo is marked "Freely and spaciouly" with a quarter note equal to 84. The first system shows measures 1 and 2 in the treble clef and measure 3 in the bass clef. The treble clef contains a series of chords and triplets, with a dynamic marking of *f* very sonorously. The bass clef contains a simple harmonic accompaniment. Pedal points are indicated by a 'v' symbol below the bass line.

Musical score for measures 4-6. Measure 4 is in the treble clef, and measures 5 and 6 are in the bass clef. The treble clef features a melodic line with triplets and a sextuplet. The bass clef continues the harmonic accompaniment. A dynamic marking of *p* sub. is present in measure 6. Pedal points are indicated by a 'v' symbol below the bass line.

Musical score for measures 7-11. Measures 7-10 are in the bass clef, and measure 11 is in the treble clef. The tempo changes to *allargando* in measure 8 and returns to *A tempo* in measure 11. Dynamics range from *f* to *ff* and *mf*. The bass clef has a complex melodic line with triplets. Pedal points are indicated by a 'v' symbol below the bass line.

Musical score for measures 12-13. Measure 12 is in the treble clef and measure 13 is in the bass clef. Measure 12 features a dynamic marking of *sf* (sforzando) and measure 13 features a dynamic marking of *p* (piano). Pedal points are indicated by a 'v' symbol below the bass line.

Fugue V

Gently and gracefully flowing $\text{♩} = 60$

The musical score for Fugue V is presented in five systems, each with a grand staff (treble and bass clefs). The key signature is two sharps (F# and C#), and the time signature is 3/2. The tempo is marked "Gently and gracefully flowing" with a quarter note equal to 60 beats per minute. The first system (measures 1-4) begins with a piano (*p*) dynamic and the instruction "sotto voce". The melody in the bass clef starts with a grace note on the first measure. The second system (measures 5-8) continues the melodic development. The third system (measures 9-12) shows the melody moving into the treble clef. The fourth system (measures 13-16) features a complex texture with overlapping lines and a fermata over the final measure of the system. The fifth system (measures 17-20) concludes the piece with a final cadence in the bass clef.

21

mf rustico

25

p

29

32

rit.

p sotto voce

Tempo I

35

Musical score for measures 35-38. The piece is in G major (one sharp) and 3/4 time. The right hand features a melodic line with eighth-note patterns and slurs. The left hand provides a harmonic accompaniment with chords and some eighth-note patterns.

39

Musical score for measures 39-42. The right hand continues with eighth-note patterns. The left hand has a more active role with eighth-note patterns. A dynamic marking *cresc. poco a poco* is present in measure 41.

43

Musical score for measures 43-45. The right hand features a melodic line with eighth-note patterns and slurs. The left hand provides a harmonic accompaniment with chords and some eighth-note patterns.

46

Musical score for measures 46-48. The right hand continues with eighth-note patterns. The left hand has a more active role with eighth-note patterns.

49

Musical score for measures 49-52. The piece is in G major (one sharp) and 3/4 time. The right hand features a melodic line with eighth-note patterns and slurs, while the left hand provides a steady accompaniment of eighth notes. Measure 52 ends with a fermata over a chord.

53

Musical score for measures 53-56. The right hand continues with complex chordal textures and slurs, while the left hand maintains a consistent eighth-note accompaniment. Measure 56 concludes with a fermata.

57

Musical score for measures 57-60. The right hand has a more active melodic line with slurs and ties. The left hand features a sequence of chords with a downward motion, marked with 'v' (accents) and slurs. Measure 60 ends with a fermata.

61

poco rit.....

Musical score for measures 61-64. The right hand has a melodic line with slurs. The left hand features a sequence of chords with a downward motion, marked with 'v' (accents) and slurs. Measure 64 ends with a fermata. The tempo marking 'poco rit.....' is placed above the final measure.

Poco meno mosso

65

Musical score for measures 65-68. The piece is in D major (two sharps). The tempo is 'Poco meno mosso'. The right hand features a melodic line with eighth and sixteenth notes, while the left hand plays a dense, rhythmic accompaniment of chords and arpeggios.

69

Musical score for measures 69-72. The right hand continues with a melodic line, and the left hand maintains the accompaniment with some changes in texture.

73

8va

Musical score for measures 73-77. The right hand has an 8va (octave) marking above it. The left hand features a complex accompaniment with many beamed notes and chords.

78

Musical score for measures 78-81. The right hand has an 8va marking above it. The left hand continues with a complex accompaniment, ending with a double bar line.

Freely, quasi improvisando ♩ = ca. 72 Prelude VI

Musical score for measures 1-3. The piece is in 3/4 time. The right hand features a melodic line with sixteenth-note runs and sixteenth-note chords, marked with a forte (*mf*) dynamic. The left hand provides a harmonic accompaniment with chords and single notes. A piano (*p*) dynamic marking is present at the beginning.

Musical score for measures 4-6. The right hand continues with sixteenth-note patterns and sixteenth-note chords. The left hand accompaniment consists of chords and single notes. A piano (*p*) dynamic marking is present at the beginning.

Musical score for measures 7-9. The right hand features a melodic line with sixteenth-note runs and sixteenth-note chords. The left hand accompaniment consists of chords and single notes. A piano (*p*) dynamic marking is present at the beginning.

rit. Quickly, mysteriously ♩ = 72

Musical score for measures 9-13. Measure 9 is marked *rit.* and contains sixteenth-note patterns. Measures 10-13 are marked *Quickly, mysteriously* and feature a change in time signature to 3/2. The right hand has a melodic line with sixteenth-note runs and sixteenth-note chords. The left hand accompaniment consists of chords and single notes. A piano (*p*) dynamic marking is present at the beginning.

dry, minimal Ped.

Musical score for measures 14-17. The right hand features a melodic line with sixteenth-note runs and sixteenth-note chords. The left hand accompaniment consists of chords and single notes. A mezzo-piano (*mp*) dynamic marking is present at the beginning, with the instruction "hushed but very clear".

20

cresc. poco a poco

26

31

ff
molto

36

p

42

48

Musical score for measures 48-52. The piece is in 3/4 time and features a key signature of one flat (B-flat). The melody in the right hand consists of eighth and quarter notes, while the left hand provides a harmonic accompaniment with chords and single notes.

53

Musical score for measures 53-57. The melody continues with eighth and quarter notes, and the left hand accompaniment remains consistent with the previous system.

58

Musical score for measures 58-62. The melody features a rising eighth-note line, and the left hand accompaniment includes some chordal textures.

63

Musical score for measures 63-67. The melody continues with eighth and quarter notes, and the left hand accompaniment remains consistent with the previous system.

68

Musical score for measures 68-72. The melody continues with eighth and quarter notes, and the left hand accompaniment remains consistent with the previous system.

73

pp

80

cresc. poco a poco

85

f

91

p.

96

p.

101

allargando.....

106

..... *Poco meno mosso* $\text{♩} = 60$

111

116

A tempo $\text{♩} = 72$

121

126

dim. poco a poco

132

138

non rit.

> fp *p*

Prelude VII

Come un'aria, molto cantabile con rubato ♩ = 60

Measures 1-3 of the prelude. The right hand features a melodic line with grace notes and slurs, while the left hand provides a harmonic accompaniment. Dynamics include *p innocente* and *pp*.

Moving ahead somewhat

Measures 4-6. The right hand continues with melodic phrases, including a five-fingered scale-like passage. The left hand accompaniment is more active. Dynamics include *mp misterioso*.

Measures 7-9. The right hand features more complex melodic figures with grace notes. The left hand accompaniment remains steady. Dynamics include *p*.

Measures 10-12. The right hand has a melodic line with a crescendo. The left hand accompaniment is consistent. Dynamics include *cresc. poco a poco* and *poco rit.*

A tempo

Measures 13-15. The right hand has a more rhythmic and expressive melodic line. The left hand accompaniment is more active. Dynamics include *f appassionatamente* and *cresc.*

16

ff

19 **Tempo I**

p

22 **rit.** **Tempo I**

p

25

f

28

Musical score for measures 28-30. Treble clef with a melodic line featuring slurs and accents. Bass clef with a harmonic accompaniment of chords and single notes.

31

dim.

Poco meno mosso

Musical score for measures 31-33. Treble clef with a melodic line. Bass clef with a harmonic accompaniment. Includes dynamic marking *dim.* and tempo marking *Poco meno mosso*.

34

rit.

Musical score for measures 34-36. Bass clef with a melodic line. Treble clef with a harmonic accompaniment. Includes tempo marking *rit.*

37

Tempo I

p misterioso

Musical score for measures 37-39. Treble clef with a melodic line. Bass clef with a harmonic accompaniment. Includes tempo marking *Tempo I* and dynamic marking *p misterioso*.

40

ff affettuoso

43

21

45

ad libitum

p

46

Tempo I

8^{va}

p sotto voce

loco

50

mp *mesto*

53

57

sopra

mf *sonore*

60

f

p *sub.*

Tempo I

rit.

63

66

rit.....

pp

Fugue VII

Largo, elegaico e nobile $\text{♩} = 40$

f molto sonoro (never harsh)

sempre legato

4

6

8

The musical score is written for piano in three systems. The first system (measures 1-3) is in 3/4 time, key of B-flat major. The second system (measures 4-5) changes to 4/4 time. The third system (measures 6-7) changes to 3/4 time. The fourth system (measures 8-9) changes to 4/4 time. The score features a melodic line in the right hand and a harmonic accompaniment in the left hand. Performance instructions include 'f molto sonoro (never harsh)' and 'sempre legato'. Measure numbers 4, 6, and 8 are indicated at the start of their respective systems.

11

Musical score for measures 11-13. Treble clef, key signature of two flats, 4/4 time. Measure 11 has a fermata over the first two notes. Measure 12 has a fermata over the first two notes. Measure 13 has a fermata over the first two notes. Bass clef, key signature of two flats, 4/4 time. Measure 11 has a fermata over the first two notes. Measure 12 has a fermata over the first two notes. Measure 13 has a fermata over the first two notes.

14

Musical score for measures 14-16. Treble clef, key signature of two flats, 4/4 time. Measure 14 has a fermata over the first two notes. Measure 15 has a fermata over the first two notes. Measure 16 has a fermata over the first two notes. Bass clef, key signature of two flats, 4/4 time. Measure 14 has a fermata over the first two notes. Measure 15 has a fermata over the first two notes. Measure 16 has a fermata over the first two notes. A dynamic marking *p molto espress.* is present in measure 16.

17

Musical score for measures 17-18. Treble clef, key signature of two flats, 4/4 time. Measure 17 has a fermata over the first two notes. Measure 18 has a fermata over the first two notes. Bass clef, key signature of two flats, 4/4 time. Measure 17 has a fermata over the first two notes. Measure 18 has a fermata over the first two notes.

19

Musical score for measures 19-20. Treble clef, key signature of two flats, 4/4 time. Measure 19 has a fermata over the first two notes. Measure 20 has a fermata over the first two notes. Bass clef, key signature of two flats, 4/4 time. Measure 19 has a fermata over the first two notes. Measure 20 has a fermata over the first two notes.

21

Musical score for measures 21-22. Treble clef, key signature of two flats, 4/4 time. Measure 21 has a fermata over the first two notes. Measure 22 has a fermata over the first two notes. Bass clef, key signature of two flats, 4/4 time. Measure 21 has a fermata over the first two notes. Measure 22 has a fermata over the first two notes. A dynamic marking *f well marked* is present in measure 21.

23

dim.

This system contains measures 23 and 24. The key signature has three flats (B-flat, E-flat, A-flat) and the time signature is 4/4. Measure 23 features a treble clef with a melodic line of eighth notes, some with accents (>), and a bass clef with a steady accompaniment of quarter notes. Measure 24 shows a dynamic marking of *dim.* (diminuendo) and includes a dashed line indicating a melodic line in the bass clef that is not fully written out.

25

pp angelica

mf mark the inner voice

This system contains measures 25 and 26. The key signature remains three flats and the time signature is 4/4. Measure 25 has a treble clef with a block of chords and a bass clef with a melodic line of eighth notes, some with accents (>). The dynamic marking *pp* (pianissimo) is followed by the instruction *angelica*. Measure 26 continues with chords in the treble and a melodic line in the bass, with the instruction *mf* mark the inner voice.

27

This system contains measures 27 and 28. The key signature is three flats and the time signature is 4/4. Measure 27 features a treble clef with chords and a bass clef with a melodic line of eighth notes, some with accents (>). Measure 28 shows a treble clef with chords and a bass clef with a melodic line of quarter notes.

29

This system contains measures 29 and 30. The key signature is three flats and the time signature is 4/4. Measure 29 has a treble clef with a melodic line of eighth notes, some with accents (>), and a bass clef with a steady accompaniment. Measure 30 continues with a treble clef melodic line and a bass clef accompaniment.

31

p molto espress.

33

35

38

40

42

Musical score for measures 42-43. The piece is in 4/4 time with a key signature of two flats (B-flat and E-flat). Measure 42 features a melodic line in the right hand with a slur and a dynamic marking of *p*. The left hand provides a harmonic accompaniment with chords and moving lines. Measure 43 continues the melodic development with a slur and a dynamic marking of *p*. A triplet of eighth notes is present in the right hand of measure 43.

44

Musical score for measures 44-46. Measure 44 shows a melodic line in the right hand with a slur and a dynamic marking of *p*. Measure 45 continues the melodic line with a slur and a dynamic marking of *p*. Measure 46 features a melodic line in the right hand with a slur and a dynamic marking of *p*. The left hand accompaniment consists of chords and moving lines.

47

Musical score for measures 47-49. Measure 47 features a melodic line in the right hand with a slur and a dynamic marking of *p*. Measure 48 continues the melodic line with a slur and a dynamic marking of *p*. Measure 49 features a melodic line in the right hand with a slur and a dynamic marking of *p*. The left hand accompaniment consists of chords and moving lines.

50

Musical score for measures 50-51. Measure 50 features a melodic line in the right hand with a slur and a dynamic marking of *p*. Measure 51 features a melodic line in the right hand with a slur and a dynamic marking of *fff*. The left hand accompaniment consists of chords and moving lines.

52

8va

54

rit.....

p piacevole

Very spacious $\text{♩} = 66$

Prelude VIII

8va
fff granitic
3

Detailed description: This system contains measures 1 through 4. The music is in 3/4 time with a key signature of one sharp (F#). The tempo is marked 'Very spacious' with a quarter note equal to 66. The first two measures feature a high register (8va) with sustained chords and a lower register with chords. The last two measures contain triplets in both hands, with the right hand playing a descending line and the left hand playing a more static accompaniment.

5 To Coda $\text{♩} = 66$
f
fp sub.
3

Detailed description: This system contains measures 5 through 8. Measure 5 begins with a forte (*f*) dynamic and a melodic line in the right hand. Measure 6 is marked 'To Coda' and features a trill in the right hand. Measure 7 continues the melodic line. Measure 8 is marked 'fp sub.' and features a triplet in the right hand. The system concludes with a 2/4 time signature change.

7 Trippingly, like a hocket $\text{♩} = 126$
p mormorando
mf pesante

Detailed description: This system contains measures 7 through 12. Measure 7 is marked 'Trippingly, like a hocket' with a tempo of 126. It features a trill in the right hand and a melodic line in the left hand. Measure 8 is marked '*p* mormorando' and features a melodic line in the right hand. Measure 9 is marked '*mf* pesante' and features a rhythmic pattern in the left hand. Measures 10-12 continue the rhythmic pattern in the left hand and a melodic line in the right hand.

13
mf
p scherzando

Detailed description: This system contains measures 13 through 16. Measure 13 is marked '*mf*' and features a melodic line in the right hand. Measure 14 is marked '*p* scherzando' and features a rhythmic pattern in the left hand. Measures 15-16 continue the rhythmic pattern in the left hand and a melodic line in the right hand.

17

f brusco

21

25

p mormorando

mp scherzando

31

mf

p scherzando

35

D.C. al Coda

⊕ Coda

38

8^{va}

p lontano

loco

pp

Red.

Prelude IX

Fleeting, luminescent ♩ = 160

f inciso e poco martellato
Half Ped.

Musical notation for measures 1-3. The right hand features a melodic line with slurs and accents, while the left hand plays a rhythmic accompaniment of eighth notes. The key signature has one sharp (F#).

(Half Ped.)

Musical notation for measures 4-5. The right hand continues the melodic line with slurs and accents. The left hand accompaniment remains consistent. The key signature has one sharp (F#).

f Ped. Ped.

Musical notation for measures 6-7. The right hand continues the melodic line. The left hand accompaniment remains consistent. The key signature has one sharp (F#).

f Ped.

Musical notation for measures 8-9. The right hand continues the melodic line. The left hand accompaniment remains consistent. The key signature has one sharp (F#).

9

molto espress.

p

Ped. Half Ped.

12

poco rit.

8va

pp lontano

(Half Ped.)

Fugue IX

Allegro con gioia ♩ = 132

Measures 1-3 of the fugue. The right hand features a melodic line with slurs and accents, while the left hand is mostly silent. The tempo is marked *f* playfully. The key signature is three sharps (F#, C#, G#).

Measures 4-6. The right hand has rests, and the left hand plays a rhythmic accompaniment. The dynamic is *mf*. The time signature changes from 3/4 to 4/4.

Measures 7-9. The right hand has a melodic line with slurs and accents, and the left hand has a rhythmic accompaniment. The dynamic is *f*. The time signature changes from 4/4 to 3/4. Fingerings are indicated: 2 1 1 5 4 3 in the right hand and 3 1 2 3 4 in the left hand. The word *Red.* is written below the left hand. The dynamic *più f* is also present.

Measures 10-12. The right hand has a melodic line with slurs and accents, and the left hand has a rhythmic accompaniment. The dynamic is *p* in measure 10 and *f* in measure 11. The time signature changes from 3/4 to 4/4.

Measures 13-15. The right hand has a melodic line with slurs and accents, and the left hand has a rhythmic accompaniment. The dynamic is *loco*. The time signature changes from 4/4 to 3/4. A large number '1' is written in the right hand in measure 15.

16

f

1

p dolce

19

mf mark inner voice

22

Red.

25

mp

1 3 2

27

fp

cresc.

30

f somewhat severe

33

f sternly

36

p *cresc.*

Red. Red.

39

41

allargando *A tempo* *ff* grandioso

Red. Red.

43

Musical score for measures 43-45. The piece is in A major (three sharps) and 3/4 time. Measure 43 features a treble staff with eighth-note runs and a bass staff with a steady eighth-note accompaniment. Measure 44 has a 4/4 time signature change. Measure 45 returns to 3/4 time. The word "Red." is written below the bass staff in each measure, with a bracket spanning all three measures.

46

Musical score for measures 46-48. The key signature remains A major. Measure 46 has a 3/4 time signature. Measure 47 has a 4/4 time signature. Measure 48 has a 5/4 time signature. The treble staff continues with melodic lines, while the bass staff provides accompaniment. The word "Red." is written below the bass staff in each measure, with a bracket spanning all three measures.

49

Musical score for measures 49-50. Measure 49 has a 3/4 time signature. Measure 50 has a 5/4 time signature. The treble staff features a melodic line with a dashed line indicating a continuation from the previous measure. The bass staff has a steady accompaniment. The word "Red." is written below the bass staff in each measure, with a bracket spanning both measures. The instruction "p sub." is written above the bass staff in measure 50.

51

Musical score for measures 51-52. Both measures have a 4/4 time signature. The treble staff features a melodic line with a dashed line indicating a continuation from the previous measure. The bass staff has a steady accompaniment. The word "Red." is written below the bass staff in each measure, with a bracket spanning both measures. The instruction "cresc." is written above the bass staff in measure 51.

53

Musical score for measures 53-56. The score is in 4/4 time and consists of two staves. The key signature has three sharps (F#, C#, G#). Measure 53 features a treble staff with a series of chords and a bass staff with eighth notes. A bracket labeled "(Red.)" spans measures 53 and 54. Measure 54 has a dynamic marking of *ff*. Measure 55 has a dynamic marking of *fff*. Measure 56 ends with a double bar line and a downward-pointing arrow.

57

Musical score for measure 57. The score is in 4/4 time and consists of two staves. The key signature has three sharps (F#, C#, G#). Measure 57 features a treble staff with a chord and a bass staff with a chord. A bracket labeled "(Red.)" spans measures 57 and 58.

Prelude X

Volante ♩ = 152

p sempre staccatissimo e leggero secco (senza ped.)

cresc.

3

5

fp *cresc.*

7

9

f *p*

11

f *p*

Measures 11 and 12 of a piano piece. The music is in a key with two flats (B-flat and E-flat) and a 4/4 time signature. The right hand features a complex, flowing melodic line with many slurs and ties. The left hand provides a steady accompaniment with eighth and sixteenth notes. Dynamic markings *f* and *p* are present.

13

f

Measures 13 and 14. The right hand continues with its intricate melodic pattern. The left hand accompaniment includes some chromatic movement. A dynamic marking of *f* is shown.

15

f

Measures 15 and 16. The melodic line in the right hand shows some chromatic shifts. The left hand accompaniment features a prominent bass line with a dynamic marking of *f*.

17

mp

Measures 17 and 18. The right hand has a more active melodic line. The left hand accompaniment includes a dynamic marking of *mp*.

19

cresc.

Measures 19 and 20. The right hand features a series of slurred chords. The left hand accompaniment includes a dynamic marking of *cresc.*

21

21

22

ff

half ped.

Detailed description: This system contains measures 21 and 22. Measure 21 features a treble clef with a melodic line of eighth notes and a bass clef with a bass line of eighth notes. Measure 22 continues the melodic line in the treble and introduces a new bass line. A dynamic marking of *ff* is placed above the treble staff in measure 22. A 'half ped.' marking is located below the bass staff in measure 22.

23

23

24

half ped.

half ped.

Detailed description: This system contains measures 23 and 24. Measure 23 continues the melodic and bass lines from the previous system. Measure 24 continues the melodic line in the treble and the bass line. 'half ped.' markings are placed below the bass staff in both measure 23 and measure 24.

25

25

26

cresc.

half ped.

half ped.

allargando.....

Detailed description: This system contains measures 25 and 26. Measure 25 continues the melodic and bass lines. Measure 26 continues the melodic line in the treble and the bass line. A dynamic marking of *cresc.* is placed above the treble staff in measure 26. 'half ped.' markings are placed below the bass staff in both measure 25 and measure 26. The tempo marking *allargando*..... is placed above the treble staff in measure 26.

27

27

28

half ped.

ff

f

secco

A tempo

Detailed description: This system contains measures 27 and 28. Measure 27 continues the melodic and bass lines. Measure 28 continues the melodic line in the treble and the bass line. A dynamic marking of *ff* is placed above the treble staff in measure 28, and a dynamic marking of *f* is placed above the treble staff in measure 28. A 'half ped.' marking is placed below the bass staff in measure 27. The tempo marking *A tempo* is placed above the treble staff in measure 28. The marking 'secco' is placed below the bass staff in measure 28.

29

Musical score for measures 29-30. The piece is in a minor key. Measure 29 starts with a piano (*p*) dynamic and a *sub* marking. The melody in the right hand consists of eighth notes, while the left hand has a steady eighth-note accompaniment. Measure 30 begins with a forte (*f*) dynamic. The piece concludes with a double bar line.

31

accel.....

Musical score for measures 31-32. Measure 31 continues the eighth-note pattern. Measure 32 features a *dim* (diminuendo) marking and an *accel.* (accelerando) instruction. The right hand melody includes a trill-like figure. The piece ends with a double bar line.

33

Musical score for measures 33-34. Measure 33 features an *8va* (octave) marking above the right hand melody. Measure 34 begins with a piano (*p*) dynamic and a *f brusque* (sudden forte) marking. The right hand has a short melodic phrase, and the left hand has a few notes. The piece ends with a double bar line and an *8* marking below the bass clef.

Prelude XI

Unpretentiously, with tender sentiment ♩ = 104

Measures 1-6 of the prelude. The right hand features a melodic line with a slur over measures 1-6. The left hand provides a harmonic accompaniment with chords and single notes. The tempo is marked as ♩ = 104. The dynamic is *p cantabile dolce*.

Measures 7-13 of the prelude. The right hand continues the melodic line with a slur. The left hand accompaniment includes chords and moving lines. Measure 13 ends with a fermata.

Measures 14-19 of the prelude. The right hand has a melodic line with a slur. The left hand accompaniment includes chords and moving lines. Measure 19 ends with a fermata.

Measures 20-25 of the prelude. The right hand has a melodic line with a slur. The left hand accompaniment includes chords and moving lines. Measure 25 ends with a fermata. The tempo marking *rit.....* is placed above measure 25.

Measures 26-31 of the prelude. The right hand has a melodic line with a slur. The left hand accompaniment includes chords and moving lines. Measure 31 ends with a fermata. The tempo marking *A tempo* is placed above measure 26.

32

Musical score for measures 32-36. The system consists of two staves: a treble clef staff and a bass clef staff. The key signature has two flats (B-flat and E-flat). Measure 32 starts with a half note B-flat in the bass and a half note G in the treble. Measures 33-35 feature a triplet of eighth notes in the treble and a triplet of eighth notes in the bass. Measure 36 ends with a half note B-flat in the bass and a half note G in the treble.

37

Musical score for measures 37-41. The system consists of two staves. Measure 37 starts with a half note B-flat in the bass and a half note G in the treble. Measures 38-40 feature a triplet of eighth notes in the treble and a triplet of eighth notes in the bass. Measure 41 ends with a half note B-flat in the bass and a half note G in the treble.

42

Musical score for measures 42-47. The system consists of two staves. Measure 42 starts with a half note B-flat in the bass and a half note G in the treble. Measures 43-47 feature a triplet of eighth notes in the treble and a triplet of eighth notes in the bass. Measure 47 ends with a half note B-flat in the bass and a half note G in the treble.

48

Musical score for measures 48-53. The system consists of two staves. Measure 48 starts with a half note B-flat in the bass and a half note G in the treble. Measures 49-53 feature a triplet of eighth notes in the treble and a triplet of eighth notes in the bass. Measure 53 ends with a half note B-flat in the bass and a half note G in the treble.

54

Musical score for measures 54-59. The system consists of two staves. Measure 54 starts with a half note B-flat in the bass and a half note G in the treble. Measures 55-59 feature a triplet of eighth notes in the treble and a triplet of eighth notes in the bass. Measure 59 ends with a half note B-flat in the bass and a half note G in the treble.

60

Musical score for measures 60-65. The system consists of two staves. The upper staff is in treble clef and the lower staff is in bass clef. The key signature has one flat (B-flat). The music features a melodic line in the upper staff and a supporting bass line in the lower staff. The bass line consists of half notes with a fermata over each note. The upper staff contains a series of eighth and quarter notes, some with slurs and ties.

66

Musical score for measures 66-71. The system consists of two staves. The upper staff is in treble clef and the lower staff is in bass clef. The key signature has one flat. The music features a melodic line in the upper staff and a supporting bass line in the lower staff. The bass line consists of half notes with a fermata over each note. The upper staff contains a series of eighth and quarter notes, some with slurs and ties. A *dim.* marking is present above the upper staff in measure 70.

72

Musical score for measures 72-75. The system consists of two staves. The upper staff is in treble clef and the lower staff is in bass clef. The key signature has one flat. The music features a melodic line in the upper staff and a supporting bass line in the lower staff. The bass line consists of half notes with a fermata over each note. The upper staff contains a series of eighth and quarter notes, some with slurs and ties. A *p* marking is present above the upper staff in measure 73, and a *pp* marking is present above the upper staff in measure 74. A *rapide* marking is present below the lower staff in measure 73.

Fugue in F Major

Allegro giocoso ♩ = 92

p leggiero

p

5

10

p sub. dolce

15

20

Detailed description: This is a page of a musical score for a fugue in F major. The score is written for piano and consists of five systems of two staves each (treble and bass clef). The tempo is marked 'Allegro giocoso' with a quarter note equal to 92 beats per minute. The key signature has one flat (F major). The piece begins with a treble clef staff playing a rhythmic pattern of eighth notes and a bass clef staff with a similar pattern. The first system ends at measure 4. The second system starts at measure 5 and ends at measure 9, featuring various time signatures including 3/16, 2/4, and 7/16. The third system starts at measure 10 and ends at measure 14, with a time signature of 6/16 and a dynamic marking of 'p sub. dolce'. The fourth system starts at measure 15 and ends at measure 19, with a time signature of 6/16. The fifth system starts at measure 20 and ends at measure 24, with a time signature of 2/4. The score includes various musical notations such as slurs, accents, and dynamic markings.

25

Musical score for measures 25-28. The piece is in B-flat major (one flat) and 3/4 time. Measure 25 features a complex rhythmic pattern with sixteenth and thirty-second notes in both hands. Measures 26-28 continue with similar rhythmic complexity, including slurs and accents.

29

Musical score for measures 29-33. The key signature changes to C major (no sharps or flats). Measures 29-30 are in 2/4 time, while measures 31-33 return to 3/4 time. The music features a mix of eighth and sixteenth notes with various articulations.

34

Musical score for measures 34-38. The key signature changes to D major (two sharps). Measures 34-35 are in 3/8 time, 36-37 in 2/4, and 38 in 3/4. This section includes sixteenth-note runs and rests marked with '1' and '4'.

39

Musical score for measures 39-42. The key signature changes to E-flat major (three flats). Measures 39-40 are in 2/4 time, 41-42 in 3/8. The music consists of eighth-note patterns with slurs and accents.

43

Musical score for measures 43-46. The key signature changes to F major (one flat). Measures 43-44 are in 2/4 time, 45-46 in 3/4. The music features eighth-note patterns and a final cadence.

46

Musical score for measures 46-49. The piece is in B-flat major and 2/4 time. Measure 46 features a complex rhythmic pattern with sixteenth notes in the right hand and eighth notes in the left hand. Measures 47-49 continue with similar rhythmic complexity, including a 3/16 time signature change in measure 47 and 49.

50

Musical score for measures 50-53. The piece is in B-flat major and 2/4 time. Measure 50 features a complex rhythmic pattern with sixteenth notes in the right hand and eighth notes in the left hand. Measures 51-53 continue with similar rhythmic complexity, including a 5/8 time signature change in measure 51 and 53.

Prelude XII

Coldly, distantly $\text{♩} = 63$

The musical score for Prelude XII is presented in four systems, each with a grand staff (treble and bass clefs). The tempo is marked "Coldly, distantly" with a quarter note equal to 63 beats per minute. The first system begins with a piano (*p*) dynamic. The second system includes a first ending bracket labeled [1]. The third system features an 8va marking above the treble staff. The fourth system includes an 8va marking above the treble staff and a *loco* marking above the bass staff. The score is characterized by complex textures, including wide intervals, rapid sixteenth-note passages, and sustained chords. Various articulation marks such as accents, slurs, and breath marks are used throughout.



Fugue XII

Fluttering, ephemeral

The musical score for Fugue XII, measures 1-7, is presented in a grand staff format. The key signature is three flats (B-flat, E-flat, A-flat), and the time signature is common time (C). The score is characterized by rapid sixteenth-note passages and dynamic contrasts.

Measure 1: The right hand begins with a sixteenth-note scale starting on G4, moving up to B4. The left hand is silent. Dynamics: *p* (piano) for the first half, *fp sub.* (fortissimo subito) for the second half, and *f* (forte) for the final notes.

Measure 2: The right hand continues with a sixteenth-note scale starting on A4, moving up to C5. The left hand plays a sixteenth-note scale starting on G3, moving up to B3. Dynamics: *p* (piano) for the first half, *fp sub.* (fortissimo subito) for the second half, *f* (forte) for the final notes, and *p* (piano) for the final notes.

Measure 3: The right hand continues with a sixteenth-note scale starting on B4, moving up to D5. The left hand plays a sixteenth-note scale starting on A3, moving up to C4. Dynamics: *fp sub.* (fortissimo subito) for the first half, and *f* (forte) for the final notes.

Measure 4: The right hand continues with a sixteenth-note scale starting on C5, moving up to E5. The left hand plays a sixteenth-note scale starting on B3, moving up to D4. Dynamics: *fp sub.* (fortissimo subito) for the first half, and *f* (forte) for the final notes.

Measure 5: The right hand continues with a sixteenth-note scale starting on D5, moving up to F5. The left hand plays a sixteenth-note scale starting on C4, moving up to E4. Dynamics: *fp sub.* (fortissimo subito) for the first half, and *f* (forte) for the final notes.

Measure 6: The right hand continues with a sixteenth-note scale starting on E5, moving up to G5. The left hand plays a sixteenth-note scale starting on D4, moving up to F4. Dynamics: *p* (piano) for the first half, *fp sub.* (fortissimo subito) for the second half, and *f* (forte) for the final notes.

Measure 7: The right hand continues with a sixteenth-note scale starting on F5, moving up to A5. The left hand plays a sixteenth-note scale starting on E4, moving up to G4. Dynamics: *p* (piano) for the first half, *fp sub.* (fortissimo subito) for the second half, and *f* (forte) for the final notes.

9

9

p *fp sub.* *f* *p*

This system contains measures 9 and 10. The right hand has a long melodic line with a fermata over measures 9 and 10. The left hand has a descending eighth-note scale in measure 9, followed by a series of chords in measure 10. Dynamics include *p*, *fp sub.*, *f*, and *p*.

11

11

fp sub.

This system contains measures 11 and 12. The right hand has a melodic line with a fermata over measure 11. The left hand has a descending eighth-note scale in measure 11, followed by a series of chords in measure 12. Dynamics include *fp sub.*

12

12

This system contains measures 13 and 14. The right hand has a melodic line with a fermata over measure 13. The left hand has a descending eighth-note scale in measure 13, followed by a series of chords in measure 14. Dynamics include *fp sub.*

13

13

p *fp sub.* *f*

This system contains measures 15 and 16. The right hand has a melodic line with a fermata over measure 15. The left hand has a descending eighth-note scale in measure 15, followed by a series of chords in measure 16. Dynamics include *p*, *fp sub.*, and *f*.

Prelude XIII

Slowly and peacefully ♩ = 60

First system of musical notation for measures 1-4. The score is in 4/4 time and features a key signature of two flats (B-flat and E-flat). The tempo is marked "Slowly and peacefully" with a quarter note equal to 60 beats per minute. The dynamic is *p* (piano). The word "hiératique" is written below the first measure. The music consists of a single melodic line in the right hand and a supporting bass line in the left hand. A fermata is placed over the final measure of the system.

Second system of musical notation for measures 5-8. The key signature changes to one flat (B-flat) in measure 5. The tempo and dynamic remain the same. The music continues with a single melodic line in the right hand and a supporting bass line in the left hand. A fermata is placed over the final measure of the system.

Third system of musical notation for measures 9-13. The key signature changes to one sharp (F#) in measure 9. The tempo and dynamic remain the same. The music continues with a single melodic line in the right hand and a supporting bass line in the left hand. A fermata is placed over the final measure of the system.

rit..... Molto adagio ♩ = 40

Fourth system of musical notation for measures 14-17. The tempo is marked "rit..... Molto adagio" with a quarter note equal to 40 beats per minute. The dynamic is *pp* (pianissimo) and the instruction "lontano" (distant) is present. The key signature changes to one sharp (F#) in measure 14. The music features a single melodic line in the right hand and a supporting bass line in the left hand. A fermata is placed over the final measure of the system.

Tempo I ♩ = 60

17

p come prima

21

p sub.

Fugue XIII

Moderato $\text{♩} = 60$

p

p

p

p

p sub.

16

Musical score for measures 16-18. The key signature is three flats (B-flat, E-flat, A-flat). The music is in a 3/4 time signature. Measure 16 features a melodic line in the right hand with eighth notes and a bass line with quarter notes. Measure 17 includes a dynamic marking of $>$ (accent) over the first eighth note. Measure 18 shows a continuation of the melodic and bass lines.

19

Musical score for measures 19-21. Measure 19 continues the melodic and bass lines. Measure 20 features a dynamic marking of mf (mezzo-forte) and a slur over the first two eighth notes. Measure 21 includes a dynamic marking of f (forte) and a slur over the first two eighth notes.

22

Musical score for measures 22-24. Measure 22 features a dynamic marking of f and a slur over the first two eighth notes. Measure 23 includes a dynamic marking of f and a slur over the first two eighth notes. Measure 24 features a dynamic marking of f and a slur over the first two eighth notes.

25

Musical score for measures 25-26. Measure 25 features a dynamic marking of f and a slur over the first two eighth notes. Measure 26 includes a dynamic marking of f and a slur over the first two eighth notes.

27

pp misterioso

29

32

34

p

37

Musical score for measures 37-38. The piece is in a key with five flats (B-flat major or D-flat minor) and a 3/4 time signature. Measure 37 features a complex texture with multiple voices in the right hand and a bass line in the left hand. Measure 38 continues this texture with various articulations and dynamics.

39

Musical score for measures 39-40. Measure 39 shows a continuation of the complex texture from the previous measures. Measure 40 features a more active bass line and a change in the right-hand texture.

41

Musical score for measures 41-43. Measure 41 has a dense texture with many notes in the right hand. Measure 42 shows a similar texture with some changes in the bass line. Measure 43 features a more open texture with fewer notes.

44

Musical score for measures 44-46. Measure 44 has a complex texture with many notes in the right hand. Measure 45 shows a similar texture with some changes in the bass line. Measure 46 features a more open texture with fewer notes.

46

Musical score for measures 46-48. The score is written for piano in a key signature of three flats (B-flat, E-flat, A-flat) and a common time signature. The music is in a 3/4 time signature. Measure 46 features a melodic line in the right hand with a dotted quarter note followed by an eighth note, and a bass line with a dotted quarter note followed by an eighth note. Measure 47 shows a continuation of the melodic line in the right hand and a bass line with a dotted quarter note followed by an eighth note. Measure 48 concludes with a final chord in the right hand and a bass line with a dotted quarter note followed by an eighth note.

Prelude XIV

Rambunctiously, with child-like energy ♩ = 144

Measures 1-6 of the Prelude XIV. The piece is in 7/16 time and features a key signature of one sharp (F#). The music is written for piano with a forte (*f*) dynamic. The right hand plays a melodic line with eighth notes and slurs, while the left hand provides a rhythmic accompaniment with eighth notes and slurs. The tempo is marked as 144 beats per minute.

Measures 7-13 of the Prelude XIV. The right hand continues its melodic line, and the left hand maintains the accompaniment. Measure 13 ends with a fermata over a whole note chord in the right hand.

Measures 14-20 of the Prelude XIV. The right hand begins a new melodic phrase with eighth notes. The left hand continues the accompaniment. Measure 20 ends with a fermata over a whole note chord in the right hand.

Measures 21-27 of the Prelude XIV. The right hand plays a melodic line with eighth notes and slurs. The left hand continues the accompaniment. Measure 27 ends with a fermata over a whole note chord in the right hand.

Measures 28-34 of the Prelude XIV. The right hand plays a melodic line with eighth notes and slurs. The left hand continues the accompaniment. Measure 34 ends with a fermata over a whole note chord in the right hand. The page ends with a dashed line and the marking *8ba*.

35

mp sub.

loco

8^{va}

42

49

loco

8^{va}

56

63

69

8va

ff

Prelude XV

Animato, scorrevole ♩ = 72

The musical score for Prelude XV is written in 2/4 time and consists of 16 measures. It is divided into four systems, each with a treble and bass clef staff. The first system (measures 1-4) features sixteenth-note patterns with dynamic markings *p* and *f*, and includes the instruction *Red.* and *segue*. The second system (measures 5-8) continues the sixteenth-note patterns with *p* and *f* dynamics. The third system (measures 9-11) includes the instruction *molto rit.* and *A tempo*, with a *dim.* marking. The fourth system (measures 12-16) includes a *cresc.* marking and ends with a 3/4 time signature.

allargando.....Appassionato rit.

8^{va}

ff *sonore*

Tempo I rit.

L.H.

Fugue XV

Agilmente ♩ = 112

Measures 1-4 of the fugue. The piece is in G major and 9/16 time. The tempo is marked 'Agilmente' with a quarter note equal to 112. The dynamics are 'p leggiero'. The right hand features a complex rhythmic pattern of eighth and sixteenth notes, while the left hand provides a steady accompaniment of eighth notes.

Measures 5-8 of the fugue. The right hand continues with its intricate rhythmic figure, and the left hand introduces a more active role with eighth-note patterns. The texture becomes more complex with overlapping lines.

Measures 9-13 of the fugue. The right hand features a prominent melodic line with slurs and accents. The left hand continues with its accompaniment, showing some chromatic movement.

Measures 14-17 of the fugue. The right hand has a series of slurred eighth-note passages. The left hand provides a harmonic foundation with sustained chords and moving lines.

17

21

25

30

rit. al fine

Prelude XVI
Like a music box, very calmly and gently ♩ = 100

p lontano *delicatissima*
una corda

The first system of the musical score consists of six measures. The right hand features a melody of eighth notes with a descending contour, while the left hand provides a harmonic accompaniment of chords. The tempo is marked 'lento' and the dynamics are 'piano' and 'delicatissima'. The instruction 'una corda' is written below the first measure.

The second system contains measures 7 through 12. The right hand continues the melodic line with eighth notes, and the left hand maintains the chordal accompaniment. The texture remains consistent with the first system.

The third system covers measures 13 to 17. The right hand's melody continues with eighth notes, and the left hand's accompaniment remains steady. The overall mood is calm and gentle.

The fourth system includes measures 18 to 22. The right hand melody concludes with a final chord, and the left hand accompaniment ends with a sustained chord. The piece concludes with a fermata over the final notes.

24

Musical score for measures 24-30. The piece is in 2/4 time and B-flat major. Measure 24 features a piano introduction with a dynamic marking of p and an accent (>) over the first note. The melody in the right hand is characterized by a series of eighth-note chords and a melodic line with a slur. The bass line provides harmonic support with chords and a steady eighth-note accompaniment. The key signature changes to B-flat minor for measures 25-30, indicated by the presence of a double flat for the second degree.

31

Musical score for measures 31-36. The piece continues in B-flat minor. Measures 31-32 show a change in the bass line with a more active eighth-note pattern. Measures 33-36 feature a more complex texture with overlapping melodic lines and chords in both hands, maintaining the B-flat minor key signature.

37

Musical score for measures 37-42. The piece continues in B-flat minor. Measures 37-42 feature a complex texture with overlapping melodic lines and chords in both hands, maintaining the B-flat minor key signature.

43

Musical score for measures 43-48. The piece continues in B-flat minor. Measures 43-48 feature a complex texture with overlapping melodic lines and chords in both hands, maintaining the B-flat minor key signature.

48

Musical score for measures 48-52. The system consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a melodic line with eighth and sixteenth notes, some beamed together, and slurs. The bass staff contains a harmonic accompaniment with chords and moving lines. The key signature has two sharps (F# and C#).

53

Musical score for measures 53-56. The system consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a melodic line with eighth and sixteenth notes, some beamed together, and slurs. The bass staff contains a harmonic accompaniment with chords and moving lines. The key signature has two flats (Bb and Eb).

57

Musical score for measures 57-60. The system consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a melodic line with eighth and sixteenth notes, some beamed together, and slurs. The bass staff contains a harmonic accompaniment with chords and moving lines. The key signature has two flats (Bb and Eb).

Floating, ethereal ♩ = 138

Prelude XVII

The musical score is divided into four systems, each containing two staves (treble and bass clef).
- **System 1 (Measures 1-5):** Starts with a dynamic of *p* and the instruction *sotto voce*. The right hand has a melodic line with a slur over measures 2-5 and a fingering of 5, 3, 2, 1. The left hand has a bass line with a slur over measures 2-5 and a fingering of 1, 2, 3, 5. A *8va* marking is above the first measure.
- **System 2 (Measures 6-10):** The right hand continues the melodic line with a slur over measures 6-10 and a fingering of 5. The left hand continues the bass line with a slur over measures 6-10 and a fingering of 1, 2, 3, 5. The dynamic changes to *mp*.
- **System 3 (Measures 11-15):** The right hand continues the melodic line with a slur over measures 11-15 and a fingering of 5. The left hand continues the bass line with a slur over measures 11-15 and a fingering of 1, 2, 3, 5. The dynamic remains *mp*.
- **System 4 (Measures 16-20):** The right hand continues the melodic line with a slur over measures 16-20 and a fingering of 5. The left hand continues the bass line with a slur over measures 16-20 and a fingering of 1, 2, 3, 5. The dynamic remains *mp*.

19

cresc.

Detailed description: This system contains measures 19 through 23. It features a grand staff with treble and bass clefs. The music consists of eighth-note patterns in both hands, often beamed together. A dynamic marking of *cresc.* is placed above the staff between measures 22 and 23. The key signature has two flats.

24

8va

Detailed description: This system contains measures 24 through 28. The grand staff continues with eighth-note patterns. A dynamic marking of *8va* is placed above the staff at the beginning of measure 27, indicating an octave shift. The key signature remains two flats.

allargando

(8)

29

cresc. *pp sub.*

Detailed description: This system contains measures 29 through 32. The tempo marking **allargando** is written above the staff. A circled number (8) is placed above the first measure. The music continues with eighth-note patterns. Dynamic markings include *cresc.* and *pp sub.* (pianissimo subito). The key signature is two flats.

A tempo (non subito)

(8)

33

p

Detailed description: This system contains measures 33 through 36. The tempo marking **A tempo (non subito)** is written above the staff. A circled number (8) is placed above the first measure. The music continues with eighth-note patterns. A dynamic marking of *p* (piano) is placed above the staff at the end of measure 36. The key signature is two flats.

(8)

37

mp

Red.

loco

(8)

41

46

rit.

p morendo

51

Prelude XVIII

Quick and light, like a dance ♩ = 168

Musical notation for measures 1-5. The score is in 3/4 time with a key signature of one sharp (F#). The right hand features a melodic line with slurs and accents, while the left hand provides a harmonic accompaniment with chords and moving lines.

p misterioso

Musical notation for measures 6-10. The right hand continues the melodic development with slurs and accents, and the left hand maintains the accompaniment.

Musical notation for measures 11-15. The right hand features more complex rhythmic patterns and slurs, while the left hand continues the accompaniment.

Musical notation for measures 16-20. The right hand has a melodic line with slurs and accents, and the left hand continues the accompaniment. The piece concludes with a Coda symbol.

To Coda ⊕

mf

21

Musical score for measures 21-25. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. The key signature has two sharps (F# and C#). The music features complex chordal textures with many accidentals. Measure 21 has a dynamic marking of *v*. Measures 22-25 continue with similar textures, including slurs and accents.

26

Musical score for measures 26-29. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. The key signature has two sharps (F# and C#). The music continues with complex textures. Measure 26 has a dynamic marking of *v*. Measures 27-29 include slurs and accents.

30

Musical score for measures 30-33. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. The key signature has two sharps (F# and C#). The music continues with complex textures. Measure 30 has a dynamic marking of *v*. Measures 31-33 include slurs and accents.

34

Musical score for measures 34-37. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. The key signature has two sharps (F# and C#). The music continues with complex textures. Measure 34 has a dynamic marking of *v*. Measure 35 has a dynamic marking of *dim.*. Measure 36 has a dynamic marking of *v*. Measure 37 has a dynamic marking of *v*. The system concludes with a fermata over a chord in the bass staff.

177

39

p incantato

molto

ff

45

50

p

ff

55

ff

p

61

p

ff

senza Ped.

178

66

cresc. poco a poco

f

cresc.

71

rit. molto rit.

ff

fff

76

..... A tempo

fff

A tempo

81

A tempo

86

Musical score for measures 86-90. The piece is in G major (one sharp) and 4/4 time. The right hand features a complex rhythmic pattern with eighth and sixteenth notes, often beamed together. The left hand provides a steady accompaniment with quarter and eighth notes. Dynamic markings include accents (>) and a 'p' (piano) marking at the beginning of measure 86.

91

Musical score for measures 91-95. The right hand continues with intricate rhythmic patterns. The left hand has a more active role with eighth-note runs. A dynamic marking of *p sub.* (piano subito) appears in measure 93.

96

Musical score for measures 96-100. The right hand has a melodic line with eighth-note patterns. The left hand continues with a rhythmic accompaniment. Accents (>) are used in the right hand in measures 99 and 100.

101

Freely ♩ = ca. 72

Musical score for measures 101-105. The right hand has a melodic line with accents (>) and dynamic markings of *f* (forte) and *p* (piano). The left hand has a rhythmic accompaniment with a *dim.* (diminuendo) marking in measure 102. The piece concludes with a *p tenebroso* (piano tenebrosamente) marking in measure 105.

180

107

111

accel.....

114

L.H. L.H. L.H. L.H.

8^{va}

A tempo rit.

pp *p*

Prelude XIX

Dream-like, "timeless" ♩ = 40

The musical score for Prelude XIX is presented in four systems, each with a grand staff (treble and bass clefs). The piece is in 3/4 time and begins with a piano (*p*) dynamic. The tempo is marked as ♩ = 40. The key signature is one flat (B-flat major or D minor). The first system (measures 1-7) features a flowing melody in the right hand and a steady bass line in the left hand. The second system (measures 8-15) continues the melodic development with some chromaticism. The third system (measures 16-22) shows a more complex texture with chords and moving lines in both hands. The fourth system (measures 23-24) concludes the piece with a final chord and a fermata. The page number 182 is centered at the bottom.

28

Musical score for measures 28-32. The system consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a melodic line with eighth and sixteenth notes, some beamed together, and various accidentals (sharps, flats, naturals). The bass staff contains a harmonic accompaniment with chords and single notes, including some grace notes. A dashed line is drawn above the treble staff, indicating an octave transposition for the final two measures.

33

8^{va}

Musical score for measures 33-37. The system consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a melodic line with eighth and sixteenth notes, some beamed together, and various accidentals. The bass staff contains a harmonic accompaniment with chords and single notes, including some grace notes. A dashed line is drawn above the treble staff, indicating an octave transposition for the final two measures.

Prelude XX

Tranquillamente ♩ = 60

Measures 1-4 of the prelude. The music is in 2/4 time and begins with a piano (*p*) dynamic. The right hand features a melodic line with slurs and fingering numbers 10 and 6. The left hand provides a harmonic accompaniment with slurs and fingering numbers 6 and 6.

Measures 5-8 of the prelude. The melodic line in the right hand continues with slurs and fingering numbers 6 and 6. The left hand accompaniment also features slurs and fingering numbers 6 and 6.

Measures 9-12 of the prelude. Measure 9 is marked *molto rit.*. Measure 10 is marked *pp echo*. Measure 11 is marked *p inner voice well marked*. The right hand has slurs and fingering numbers 10 and 5. The left hand has slurs and fingering numbers 5 and 5.

Measures 13-16 of the prelude. The right hand features slurs and fingering numbers 5 and 5. The left hand has slurs and a triplet of eighth notes in measure 15, indicated by a bracket and the number 3.

17 *rit. (al fine)*

5 *pp echo* *p* 10

3 3

22

10 *dim.* 10 *pp* 10

26

p 10 *dim.* 10

29 *rit.*

10 *pp* *ppp* 10

Prelude XXI

Gently and sadly $\text{♩} = 72$

The first system of the musical score consists of two staves. The upper staff is in treble clef with a 4/4 time signature. It begins with a piano (*p*) dynamic and the instruction *sempre*. The melody is a series of eighth notes, mostly descending, with a final note marked with an accent (>). The lower staff is in bass clef and features a steady accompaniment of eighth notes, with some notes marked with a '7' and an accent (>).

grace notes not too quick and *on* the beat

The second system continues the piece from measure 5. The upper staff features grace notes (marked with a '7') before the main eighth-note melody. The lower staff continues with the eighth-note accompaniment, maintaining the '7' and accent markings.

The third system begins at measure 9. The upper staff shows a change in the melody, with some notes held as half notes. The lower staff continues with the eighth-note accompaniment, which now includes some half-note chords.

The fourth system starts at measure 14. The upper staff continues with the melodic line, showing some chromatic movement. The lower staff's accompaniment includes some chords and rests, with the eighth-note pattern still present.

The fifth system begins at measure 19. The upper staff features a more active melodic line with grace notes. The lower staff continues with the eighth-note accompaniment, which now includes some chords and rests.

23

A musical score for two staves, Treble and Bass clef. Measure 23 (marked with '23') features a treble staff with a melodic line starting on a half note G4 (with a flat) and moving through quarter notes A4, B4, C5, D5, E5, F5, G5, and a half note G5. The bass staff has a whole note chord G4-B4-D5. Measure 24 continues the treble staff with quarter notes A4, B4, C5, D5, E5, F5, G5, and a half note G5. The bass staff has a whole note chord G4-B4-D5. Measure 25 has a treble staff with a whole note G5 and a bass staff with a whole note chord G4-B4-D5. Measure 26 has a treble staff with a quarter note G5, a quarter rest, and a half note G5. The bass staff has a whole note chord G4-B4-D5. A large brace spans across measures 23 and 24.

Prelude XXII (for the left hand alone)

Gracefully flowing ♩ = 72

Measures 1-2 of the prelude. The music is in 4/4 time and begins with a treble clef. The key signature has two flats (B-flat and E-flat). The first measure starts with a piano (*p*) dynamic and the instruction "gently". The melody in the right hand consists of eighth and sixteenth notes, while the left hand provides a simple accompaniment of quarter notes.

Measures 3-4. Measure 3 continues the melodic line in the right hand. Measure 4 features a change in time signature to 2/4, with a repeat sign at the end of the measure.

Measures 5-6. Measure 5 returns to 4/4 time. Measure 6 ends with a 12/8 time signature change, indicated by a double bar line and the new time signature.

Measures 7-9. This system is entirely in 12/8 time. The right hand has a melodic line with slurs and accents, while the left hand plays a steady eighth-note accompaniment.

Measures 10-12. Measure 10 starts with a 2/4 time signature. Measure 11 continues in 2/4. Measure 12 ends with a 2/4 time signature and a repeat sign.

13

allargando.....*Largo*

16

f cresc. *ff* *dim.*

fff

Tempo I

18

> p

20

pp leggiero *rit.*

A tempo

22

p sub.

25

dim.

pp

Prelude XXIII

Slowly, intimately ♩ = 116

Musical notation for measures 1-4. The piece is in 7/8 time and D major. The first system consists of four measures. The first measure has a piano (*p*) dynamic. The second measure has a mezzo-forte (*mf*) dynamic. The third measure has a piano (*p*) dynamic. The fourth measure has a piano (*p*) dynamic. The notation includes treble and bass staves with various note values, rests, and phrasing slurs.

Musical notation for measures 5-8. The second system consists of four measures. The first measure has a mezzo-forte (*mf*) dynamic. The second measure has a piano (*p*) dynamic. The third measure has a piano (*p*) dynamic. The fourth measure has a mezzo-forte (*mf*) dynamic. The notation includes treble and bass staves with various note values, rests, and phrasing slurs.

Musical notation for measures 9-12. The third system consists of four measures. The first measure has a piano (*p*) dynamic. The second measure has a piano (*p*) dynamic. The third measure has a piano (*p*) dynamic. The fourth measure has a pianissimo (*pp*) dynamic. The notation includes treble and bass staves with various note values, rests, and phrasing slurs.

Musical notation for measures 13-16. The fourth system consists of four measures. The first measure has a pianissimo (*pp*) dynamic. The second measure has a piano (*p*) dynamic. The third measure has a mezzo-forte (*mf*) dynamic. The fourth measure has a mezzo-forte (*mf*) dynamic. The notation includes treble and bass staves with various note values, rests, and phrasing slurs.

17 *rit.*

21 *A tempo* *molto rit.* *8va*

Fugue XXIII

Andante molto moderato $\text{♩} = 60$

p cantabile dolce sempre legato

The first system of music shows measures 1 through 5. The key signature is three sharps (F#, C#, G#) and the time signature is 6/8. The right hand begins with a whole rest in measure 1, followed by a half note G#4 in measure 2, and then a series of eighth notes in measures 3, 4, and 5. The left hand plays a steady eighth-note accompaniment throughout.

The second system of music shows measures 6 through 10. The right hand continues with eighth-note patterns, including a half note G#4 in measure 7. The left hand maintains the eighth-note accompaniment.

The third system of music shows measures 11 through 15. The right hand features a half note G#4 in measure 12 and continues with eighth-note patterns. The left hand accompaniment remains consistent.

The fourth system of music shows measures 16 through 20. The right hand has a half note G#4 in measure 17 and continues with eighth-note patterns. The left hand accompaniment remains consistent.

p sub.

The fifth system of music shows measures 21 through 25. The right hand begins with a half note G#4 in measure 21 and continues with eighth-note patterns. The left hand accompaniment remains consistent.

26

pp sotto voce

30

35

40

45

pp sotto voce

50

Musical score for measures 50-53. The piece is in G major (one sharp). Measure 50 features a melodic line in the right hand with a slur and a dynamic marking of *p*. The left hand provides a harmonic accompaniment. Measure 51 includes a dynamic marking of *f* and a slur. Measure 52 has a dynamic marking of *f* and a slur. Measure 53 contains a dynamic marking of *f* and a slur.

54

Musical score for measures 54-58. The key signature changes to G minor (two sharps). Measure 54 has a dynamic marking of *p*. Measure 55 includes a dynamic marking of *p sub.* and a slur. Measure 56 has a dynamic marking of *p*. Measure 57 has a dynamic marking of *f* and a slur. Measure 58 has a dynamic marking of *f* and a slur.

59

Musical score for measures 59-63. The key signature remains G minor. Measure 59 has a dynamic marking of *f*. Measure 60 has a dynamic marking of *f*. Measure 61 has a dynamic marking of *f*. Measure 62 has a dynamic marking of *f*. Measure 63 has a dynamic marking of *f*.

64

Musical score for measures 64-68. The key signature remains G minor. Measure 64 has a dynamic marking of *f* and a slur. Measure 65 has a dynamic marking of *f*. Measure 66 has a dynamic marking of *f*. Measure 67 has a dynamic marking of *f*. Measure 68 has a dynamic marking of *f*.

69

Musical score for measures 69-73. The key signature remains G minor. Measure 69 has a dynamic marking of *f*. Measure 70 has a dynamic marking of *f*. Measure 71 has a dynamic marking of *f*. Measure 72 has a dynamic marking of *f*. Measure 73 has a dynamic marking of *f*.

74

Musical score for measures 74-79. The score is written for piano in G major (one sharp) and 4/4 time. The key signature is G major (one sharp). The piece concludes with a double bar line at the end of measure 79.

Measure 74: Treble clef has a dotted half note G4 and a dotted half note B4. Bass clef has a dotted half note G2 and a dotted half note B2.

Measure 75: Treble clef has a dotted half note G4 and a dotted half note B4. Bass clef has a dotted half note G2 and a dotted half note B2.

Measure 76: Treble clef has a dotted half note G4 and a dotted half note B4. Bass clef has a dotted half note G2 and a dotted half note B2.

Measure 77: Treble clef has a dotted half note G4 and a dotted half note B4. Bass clef has a dotted half note G2 and a dotted half note B2.

Measure 78: Treble clef has a dotted half note G4 and a dotted half note B4. Bass clef has a dotted half note G2 and a dotted half note B2.

Measure 79: Treble clef has a dotted half note G4 and a dotted half note B4. Bass clef has a dotted half note G2 and a dotted half note B2.

Prelude XIV

The first system of musical notation for Prelude XIV, measures 1-2. It is written in 4/4 time. The right hand features a melodic line with eighth-note patterns and a trill-like figure in the second measure. The left hand provides a steady accompaniment of eighth notes.

The second system of musical notation, measures 3-5. Measure 3 begins with a triplet of eighth notes in the right hand. The piece continues with eighth-note patterns in both hands, with some trills and grace notes in the right hand.

The third system of musical notation, measures 6-7. The right hand has a melodic line with trills and grace notes. The left hand continues with eighth-note accompaniment. The system concludes with a half-note chord in the right hand.

The fourth system of musical notation, measures 8-10. Measure 8 features a triplet of eighth notes in the right hand. A slur covers measures 9 and 10, which contain a melodic line with trills and grace notes in the right hand, and a bass clef staff with a few notes in the left hand.

11

Musical notation for measures 11-13. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. Measure 11 begins with a treble clef and a common time signature. A slur covers measures 11 and 12. Measure 13 starts with a new slur. The bass line features a triplet of eighth notes in measure 13.

14

Musical notation for measures 14-16. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. Measure 14 begins with a treble clef and a key signature of two sharps (F# and C#). A slur covers measures 14, 15, and 16. The bass line features a triplet of eighth notes in measure 15.

17

Musical notation for measures 17-18. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. Measure 17 begins with a treble clef and a common time signature. A dynamic marking of *p* (piano) is present in measure 17. A slur covers measures 17 and 18.

19

Musical notation for measures 19-20. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. Measure 19 begins with a treble clef and a common time signature. A slur covers measures 19 and 20.

21

Musical notation for measures 21-22. The system consists of a grand staff with a treble clef on the upper staff and a bass clef on the lower staff. Measure 21 begins with a treble clef and a common time signature. A slur covers measures 21 and 22. A dynamic marking of *b* (bristling) is present in measure 22.

23

Musical notation for measures 23-25. The system consists of two staves. The upper staff is in treble clef and contains a melodic line with a long slur over measures 23, 24, and 25. The lower staff is in bass clef and contains a bass line with eighth-note accompaniment. Measure 23 starts with a whole note chord in the right hand and a half note in the left hand. Measure 24 continues the melodic line in the right hand and the bass line in the left hand. Measure 25 concludes the phrase with a whole note chord in the right hand and a half note in the left hand.

26

Musical notation for measures 26-28. The system consists of two staves. The upper staff is in treble clef and contains a melodic line with a long slur over measures 26, 27, and 28. The lower staff is in bass clef and contains a bass line with eighth-note accompaniment. Measure 26 starts with a whole note chord in the right hand and a half note in the left hand. Measure 27 continues the melodic line in the right hand and the bass line in the left hand. Measure 28 concludes the phrase with a whole note chord in the right hand and a half note in the left hand.

29

Musical notation for measures 29-30. The system consists of two staves. The upper staff is in treble clef and contains a melodic line with a long slur over measures 29 and 30. The lower staff is in bass clef and contains a bass line with eighth-note accompaniment. Measure 29 starts with a whole note chord in the right hand and a half note in the left hand. Measure 30 concludes the phrase with a whole note chord in the right hand and a half note in the left hand.

31

Musical notation for measures 31-32. The system consists of two staves. The upper staff is in bass clef and contains a melodic line with a long slur over measures 31 and 32. The lower staff is in bass clef and contains a bass line with eighth-note accompaniment. Measure 31 starts with a whole note chord in the right hand and a half note in the left hand. Measure 32 concludes the phrase with a whole note chord in the right hand and a half note in the left hand.

33

Musical score for measures 33-35. The system consists of two staves: a treble clef staff and a bass clef staff. A long slur covers the entire system. The treble staff contains a melodic line with eighth and sixteenth notes, while the bass staff provides a harmonic accompaniment with chords and moving lines.

36

Musical score for measures 36-38. The system consists of two staves: a treble clef staff and a bass clef staff. A long slur covers the entire system. The treble staff continues the melodic line, and the bass staff provides accompaniment with some chromatic movement.

39

Musical score for measures 39-41. The system consists of two staves: a treble clef staff and a bass clef staff. A long slur covers the entire system. The treble staff features a melodic line with some chromaticism, and the bass staff provides accompaniment with grace notes.

42

Musical score for measures 42-45. The system consists of two staves: a treble clef staff and a bass clef staff. A long slur covers the entire system. The treble staff contains a melodic line with dynamic markings *n*, *pp*, and *ppp*. The bass staff provides accompaniment with chords and moving lines. The system ends with a double bar line and repeat signs.

47

pppp

|||

|||

Detailed description: This image shows a musical score for piano, measures 47 and 48. The notation is written on two staves, both in bass clef. The first staff contains a whole note chord consisting of three notes: G2, B1, and D2. The second staff contains a whole note chord consisting of three notes: G2, B1, and D2. The dynamic marking *pppp* is placed between the two staves. The measure numbers 47 and 48 are indicated by vertical lines at the beginning and end of the first staff.

Fugue XIV

Measures 1-3 of Fugue XIV. The piece is in G major and 7/4 time. The first system shows the beginning of the piece. The right hand starts with a melodic line, and the left hand has a few notes. The tempo and dynamics are marked *p cantabile*.

Measures 4-6 of Fugue XIV. The right hand continues its melodic line, and the left hand has a few notes. The tempo and dynamics are marked *p cantabile*.

Measures 7-9 of Fugue XIV. The right hand continues its melodic line, and the left hand has a few notes. The tempo and dynamics are marked *p cantabile*.

Measures 10-12 of Fugue XIV. The right hand continues its melodic line, and the left hand has a few notes. The tempo and dynamics are marked *p cantabile*.

Measures 13-15 of Fugue XIV. The right hand continues its melodic line, and the left hand has a few notes. The tempo and dynamics are marked *p cantabile*.

16

Musical score for measures 16-18. The piece is in G major (one sharp). The right hand features a melodic line with eighth and sixteenth notes, often beamed together. The left hand provides a harmonic accompaniment with chords and moving lines. Measure 18 ends with a fermata over a chord.

19

Musical score for measures 19-21. The right hand has a more complex texture with chords and moving lines. The left hand has a steady bass line. Dynamic markings include *p* (piano) in measures 19 and 20, and *mf* (mezzo-forte) in measure 21. Measure 21 ends with a fermata.

22

Musical score for measures 22-24. The right hand continues with melodic and harmonic development. The left hand has a rhythmic bass line. A dynamic marking of *f* (forte) is present in measure 24. Measure 24 ends with a fermata.

25

Musical score for measures 25-27. The right hand has a melodic line with some chromaticism. The left hand has a simple bass line. Dynamic markings include *p sub.* (piano subito) in measure 25 and *cresc.* (crescendo) in measure 26. Measure 27 ends with a fermata.

27

p sub.

29

ff

Led.

31

dim.

(Led.)

34

pp

pp like a music box

8va

(Led.)

37 (8)

cresc.

40

mf bring out

43

45

cresc.

f

47

ff

Musical score for measures 47-48. The piece is in B-flat major (two flats) and 3/4 time. Measure 47 features a forte (ff) dynamic. The right hand has a melodic line with eighth and sixteenth notes, while the left hand provides a harmonic accompaniment with chords and single notes.

49

p sub.

Musical score for measures 49-50. The key signature changes to B major (two sharps). Measure 49 begins with a piano (p) dynamic and a subito (sub.) marking. The right hand has a melodic line with eighth notes, and the left hand has a bass line with eighth notes.

51

Musical score for measures 51-52. The right hand has a melodic line with eighth notes and a fermata over the final note of measure 51. The left hand has a bass line with eighth notes.

53

molto rit......**A tempo**

Musical score for measures 53-54. Measure 53 is marked **molto rit.** and measure 54 is marked **A tempo**. The right hand has a melodic line with eighth notes and a fermata over the final note of measure 53. The left hand has a bass line with eighth notes.

55

Musical score for measures 55-56. The system consists of two staves. The upper staff is in treble clef and the lower staff is in bass clef. Both staves are in the key of D major. The music features a melodic line in the upper staff and a harmonic accompaniment in the lower staff. The lower staff includes fingering numbers VI and IV.

57

Musical score for measures 57-58. The system consists of two staves. The upper staff is in treble clef and the lower staff is in bass clef. Both staves are in the key of D major. The music features a melodic line in the upper staff and a harmonic accompaniment in the lower staff. The lower staff includes a dynamic marking *ff* and a fingering number 7.

59

Musical score for measures 59-60. The system consists of two staves. The upper staff is in treble clef and the lower staff is in bass clef. Both staves are in the key of D major. The music features a melodic line in the upper staff and a harmonic accompaniment in the lower staff. The lower staff includes a dynamic marking *fff*.

61

Musical score for measures 61-62. The system consists of two staves. The upper staff is in treble clef and the lower staff is in bass clef. Both staves are in the key of D major. The music features a melodic line in the upper staff and a harmonic accompaniment in the lower staff. The lower staff includes a dynamic marking *fff* and a fingering number 7.

63

Musical score for measures 63 and 64. The score is written for piano and includes a vocal line. The key signature is two sharps (F# and C#). The piano part consists of a right-hand staff with a complex, multi-voiced texture and a left-hand staff with a bass line. The vocal line is in the upper right. Dynamics include *fff* and accents (*>*). Measure 63 shows a vocal line with eighth notes and a piano accompaniment with a dense texture. Measure 64 continues the vocal line and piano accompaniment.

65

Musical score for measures 65 and 66. The score is written for piano and includes a vocal line. The key signature is two sharps (F# and C#). The piano part consists of a right-hand staff with a complex, multi-voiced texture and a left-hand staff with a bass line. The vocal line is in the upper right. Dynamics include *fff* and accents (*>*). Measure 65 shows a vocal line with eighth notes and a piano accompaniment with a dense texture. Measure 66 continues the vocal line and piano accompaniment.

67

Musical score for measures 67 and 68. The score is written for piano and includes a vocal line. The key signature is two sharps (F# and C#). The piano part consists of a right-hand staff with a complex, multi-voiced texture and a left-hand staff with a bass line. The vocal line is in the upper right. Dynamics include *f* and accents (*>*). Measure 67 shows a vocal line with eighth notes and a piano accompaniment with a dense texture. Measure 68 continues the vocal line and piano accompaniment.

69

mp p p

This system contains measures 69 and 70. Measure 69 features a piano introduction with a dynamic marking of *mp* in the right hand and *p* in the left hand. Measure 70 continues with a dynamic marking of *p*. The key signature is one sharp (F#) and the time signature is 4/4.

71

This system contains measures 71 and 72. The right hand plays a melodic line with slurs and ties, while the left hand provides a rhythmic accompaniment. The key signature remains one sharp (F#) and the time signature is 4/4.

73

This system contains measures 73 and 74. Measure 73 shows a continuation of the melodic and harmonic themes. Measure 74 includes a dynamic marking of *p*. The key signature is one sharp (F#) and the time signature is 4/4.

75

This system contains measures 75 and 76. Measure 75 features a dynamic marking of *p*. Measure 76 continues the musical development. The key signature is one sharp (F#) and the time signature is 4/4.

77

Musical score for measures 77-80. The piece is in D major (two sharps) and 4/4 time. Measure 77 features a melodic line in the treble clef with eighth and quarter notes, and a bass line with quarter notes. Measure 78 continues the melodic line with a slur and a fermata. Measure 79 has a melodic line with a slur and a fermata, and a bass line with quarter notes. Measure 80 features a melodic line with a slur and a fermata, and a bass line with quarter notes. The key signature changes to D minor (two sharps) at the start of measure 81.

81

Musical score for measures 81-82. The piece is in D minor (two sharps) and 4/4 time. Measure 81 features a melodic line in the treble clef with a slur and a fermata, and a bass line with a slur and a fermata. The dynamic marking *pp lontano* is present. Measure 82 features a melodic line in the treble clef with a slur and a fermata, and a bass line with a slur and a fermata.