



The Bridges that Never Were: Schenker on the Contrapuntal Origin of the Triad and Seventh Chord

Eytan Agmon



KEYWORDS: Schenker, counterpoint, triad, seventh chord, harmony, hierarchy

ABSTRACT: Schenker's success in bridging the gap between strict counterpoint and free composition is reassessed, in view of the finding that in each of these two domains the notions "triad" and "seventh chord" assume qualitatively different meanings.

-
1. Introduction
 2. The Consonance Principle
 3. The Triad in Strict Counterpoint
 4. The Seventh Chord in Strict Counterpoint
 5. Conclusion
 6. Appendix: Beyond the Harmony/Voice-Leading Dichotomy
-

1. Introduction

[1.1] In view of his well-known belief that "voice-leading must always and everywhere be regarded as the actual foundation of music,"⁽¹⁾ it is instructive to learn that, in *Counterpoint*, Schenker sets as his "first task. . .to draw the boundaries between the *pure theory of voice leading* and *free composition*."⁽²⁾ Schenker, in other words, despite his firm commitment to the contrapuntal origins of tonal music, finds it necessary to begin his treatise by setting strict counterpoint and free composition clearly apart. At one point he even goes so far as to speak of a "great gulf" that lies between the two domains, somewhat like the gulf that separates the rules of grammar from the creative use of language.⁽³⁾

[1.2] As Schenker is quick to realize, however, "precisely such a clear-cut discrimination between the 'exercise' and the free work of art makes all the more imperative a second task, namely. . . to reveal the *connection between counterpoint* (which may be considered the first musico-grammatical exercises) and the *actual work of art*—to show the nature and foundation of this connection."⁽⁴⁾ Thus, if strict counterpoint and free composition lie at the opposite sides of a great divide, there are nonetheless bridges—bridges to free composition—that take one from one side to the other.

[1.3] In the present essay I shall question the existence of two specific such bridges. In particular, I shall claim that the triad and seventh chord of free composition, as harmonic entities, are qualitatively distinct from the “triad” and “seventh chord” of strict counterpoint; the gap between the harmonic and contrapuntal meanings of the terms “triad” and “seventh chord,” in other words, simply cannot be bridged. Schenker is of course aware that the seventh chord is a potential problem, for he devotes a special section to the “budding” seventh chord, as he calls it, in the last part of *Counterpoint*, a part entitled, appropriately enough, “Bridges to Free Composition.” Schenker seems less aware, however, that even to derive the “simple” triad from purely contrapuntal assumptions is highly problematic.

[1.4] It should be stressed that not all of Schenker’s bridges are of questionable status; as Schenker insightfully suggests in “Bridges to Free Composition,” combined species may be viewed in hierarchical terms.⁽⁵⁾ Combined species, in other words, may be viewed as a bridge between strict counterpoint and free composition as far as such notions as “structural level,” “prolongation,” or the *Stufe*, are concerned. Nonetheless, I believe that the failure of Schenker’s bridges in the cases of the triad and seventh chord has far-reaching theoretical implications. I shall consider these implications in an appendix to the present essay.

2. The Consonance Principle

[2.1] Contrapuntal theory, for Schenker, may be reduced to one fundamental premise, reiterated time and again (in one version or another) throughout the two volumes of *Counterpoint*: “*In the beginning is consonance!*” The consonance is primary, the dissonance secondary!⁽⁶⁾ I shall refer henceforth to this principle as the “Consonance Principle” (CP).

[2.2] How, exactly, does Schenker classify vertical dyads as consonant and dissonant? As it turns out, Schenker uses more than one system of classification. By one method, to which I shall refer henceforth as CP1, the consonances are either perfect (perfect octave and fifth), or imperfect (major or minor third and sixth); all other intervals (augmented fourth, diminished fifth, major or minor second or seventh)—*except the perfect fourth*—are always dissonant. By CP1 the perfect fourth has special status. Originally a perfect consonance, the interval becomes a dissonance *when formed in relation to the bass*.⁽⁷⁾

[2.3] According to another method, to which I shall refer henceforth as CP2, intervals are only counted in relation to the bass. The perfect fourth, by CP2, is dissonant. However, since intervals in the upper parts are in a sense nonexistent, it is irrelevant whether they are consonant or dissonant. Thus, the intervals perfect fourth, augmented fourth, diminished fifth, major or minor second or seventh, may be freely used in the upper parts *as if they were consonant*. It should be stressed that Schenker never explicitly distinguishes between CP1 and CP2. For example, after explaining that the perfect fourth “realizes its original potential as a consonance” when formed in the upper parts (CP1), he mentions as an afterthought that a similar allowance must be made for the augmented fourth as well, even though the interval was never “originally” a consonance (CP2).⁽⁸⁾ There is some evidence in *Counterpoint* that CP2 is Schenker’s preferred system of consonance/dissonance classification;⁽⁹⁾ and yet, in deriving the triad in volume 2, Schenker seems to be using CP1 and CP2 interchangeably.

3. The Triad in Strict Counterpoint

[3.1] In his discussion of three-voice counterpoint, first species, Schenker states that “to the extent that the three [simultaneous-sounding] tones of the counterpoint are to be of different pitch, the law of consonance itself (cf. Part 2, Chapter 1) restricts polyphony of three voices to ♩ or ♫ . The concept of triad thus evolved in the vertical dimension of three-voice counterpoint, *simply through the law of consonance first handed down by the voice leading of two-voice counterpoint*.”⁽¹⁰⁾ Clearly, the “law of consonance” to which Schenker refers is CP1, since by CP2 the ♩ sonority is allowed in addition to ♩ and ♫ .

[3.2] Schenker begins the subsequent section with the following statement: “Since the concept of triad was thus restricted, for the domain of three-voice counterpoint, to ♩ and ♫ , *the necessity of rejecting the sonority* ♩ followed as a natural consequence, although both of its intervals are consonant with the bass.”⁽¹¹⁾ Clearly, in the first part of this statement Schenker continues to assume CP1; however, in the second part he tacitly switches to CP2. For only by CP2 there exists a *necessity* of “rejecting” the sonority ♩ ; indeed, only by CP2 does the consonance of the fifth and sixth *in relation to the bass* take priority over the dissonance that the upper tones of these intervals form among themselves. That Schenker tacitly replaced CP1 by CP2 becomes clear in his discussion of the diminished ♩ sonority a few paragraphs later (clearly, the diminished ♩ sonority is

excluded by CP1): “. . . in the case of the \flat the diminished fifth or augmented fourth is permitted in the inner voices. . . For through these positions, those intervals become thirds and sixths <in relation to the bass>, which, as such, *now adequately satisfy the law of consonance.*”⁽¹²⁾

[3.3] Schenker’s contrapuntal derivation of the triad is problematic on several counts. First, although he seems to settle for CP2 in the end, his vacillation between CP1 and CP2 is plainly unacceptable. Second, as a “law of consonance,” CP2 leaves much to be desired. While it is true that, say, (d1,f1,b1) sounds much better than (b,d1,f1), it is nonetheless rather doubtful that one could count the diminished \flat among the consonant sonorities.⁽¹³⁾ Moreover, since CP2 allows the diminished \flat , it must also allow the \sharp (unless the fifth happens to be diminished, as in the dominant \sharp). This requires an additional, *ad hoc* rule by which to exclude the \sharp from the domain of “triads.” “. . . Purely contrapuntal experience” Schenker explains, “. . . has taught that the triad as such can be bounded by either 5 or 6, but not with both of these intervals at the same time.”⁽¹⁴⁾

[3.4] Although each of the above objections is quite serious, a much more sweeping objection may be made with regard to deriving the notion “triad” from contrapuntal assumptions in general, be they CP1, CP2, or any other conceivable “Consonance Principle.” For the triad of free composition is defined *independently* of the quality of the intervals of which it is comprised (major, minor, etc.), so that, for example, not only are (C,E,G) and (C,E \flat ,G) defined as triads, but also are (C,E \flat ,G \flat) and (C,E,G \sharp) so defined. In deriving the triad of free composition, in other words, the Consonance Principle is simply irrelevant.

[3.5] Note that what is at stake here is not merely that strict counterpoint excludes the diminished and augmented sonorities from the domain of “triads” (altogether by CP1, in root position as well as second inversion by CP2); after all, one might argue, of the seven diatonic triads only one is diminished, and none is augmented (the augmented triad may arise only as a result of chromatic alteration). Rather, what is at stake is a much more fundamental issue, namely, that the triad of free composition, in principle, cannot be equated with the “triad” (i.e., “consonant three-tone sonority”) of strict counterpoint. There exists, in other words, a *qualitative difference* between the two concepts, *regardless of how often specific manifestations of either may happen to coincide in practice.* Even by CP2, which allows the diminished as well as augmented \sharp sonorities, the gap between the “triad” of strict counterpoint and the triad of free composition simply cannot be bridged. To be sure, one can “invert” a diminished \flat to its root-position form; yet this inversion cannot be a “triad” by CP2. Only a “generic” definition of “triad”—one where intervallic quality does not count—can sanction the “triadhood” of the diminished \flat . But such a definition, once again, is qualitatively distinct from a definition based on CP.

[3.6] It is instructive that Schenker does refer to the diminished \flat sonority as a “triad,” even though the sonority violates both CP1 and CP2.⁽¹⁵⁾ Schenker’s terminological inconsistency ultimately leads to the following obscure statement: “Thus in the final analysis it is merely the absence of scale degrees that prevents the diminished triad in strict three-voice counterpoint from being included in the category of triads that are consonant or to be treated as consonant.” Now, taken at face value this statement makes hardly any sense, for the only “triads” that exist in strict counterpoint are consonant, by definition.⁽¹⁶⁾ Perhaps, however, Schenker intended something like the following statement: “Unlike free composition, where the diminished *sonority* may assume (together with the six consonant triads) the role of a scale degree, the sonority in strict three-voice counterpoint (at least in root position) is prevented from being included in the category of triads because it is dissonant.” But this statement is simply another way of saying that a qualitative, unbridgeable difference exists between the “triad” of strict counterpoint and the triad of free composition; for to say that a given sonority, in free composition, is a “scale degree,” presumably implies that this sonority is a triad.

4. The Seventh Chord in Strict Counterpoint

[4.1] Unlike the major and minor triads, any root-position seventh chord violates CP, and thus has no independent status in strict counterpoint.⁽¹⁷⁾ Schenker, therefore, explicitly relegates the discussion of the seventh chord to the concluding part of his treatise, a part that he designates by the highly suggestive title “Bridges to Free Composition.” “Bridges,” as is well known, is an essay on combined species. The “budding” seventh chord, as Schenker calls it, is considered in the context of three-voice counterpoint, combining fourth-species counterpoint (suspensions) with second species.

[4.2] It is not difficult to see why Schenker opted to derive his “budding” seventh chord from a combination that specifically

includes a fourth-species part (rather than, say, a combination of two second-species parts). The treatment of the seventh in fourth-species counterpoint is suggestive of free composition on two important counts: (1) the seventh resolves downwards; (2) the seventh appears on the downbeat, and thus seems to have a more independent status than, say, a passing seventh on the weak beat. The first of these two considerations is not really relevant to the present discussion, which focuses on the conceptual status of the seventh chord as a vertical formation, and not on how a seventh chord may or may not interact with its neighboring harmonies.

[4.3] It is important to emphasize how crucial for Schenker in this context is the distinction between a suspended seventh on the strong beat and a passing seventh on a weak beat. Thus for example, in connection with the suspended ♯ combination (a combination that he finds difficult to explain in terms of a fourth-species model), Schenker states that the tied “fifth, born as a seventh, falls under the concept of passing tone, in spite of the fact that just in this combination-type it creates, by means of tying, the *impression* of a suspension. . . .”⁽¹⁸⁾ In other words, even if, at a foreground level, a passing motion has the appearance of a suspension formation as a result of contraction, this formation is not to be confused with a true suspension. That Schenker insists on explaining his “budding” seventh chord in terms of a fourth-species model is a point worth remembering. In fact, Schenker is obsessed with the suspension-idea in this context to such an extraordinary extent that he seems to forget that in the earlier parts of his treatise he practically obliterated the distinction between passing motion and suspension, by accounting for the dissonant suspension of fourth species precisely in the terms of contracted passing motion.⁽¹⁹⁾

[4.4] Since Schenker insists that his “budding” seventh chord is a child of fourth-species counterpoint, we might as well take a look at Fux’s *Gradus ad Parnassum* to review the special problems of dissonance treatment that this species poses. In Fux’s treatise, there is no separate treatment of combined species; yet the treatise does include some suggestive references to dissonance treatment in the context of fourth species combined with second species. Before turning to these specific references, however, let us listen to Fux on fourth species in ordinary two- and three-part counterpoint.

[4.5] Concerning the status of dissonance in fourth-species counterpoint, Fux’s rule is straightforward: “ligatures do not change anything.”⁽²⁰⁾ In other words, the dissonance, *despite its appearance on the downbeat*, has no independent status; only the consonance to which the dissonance resolves has independent status. It is therefore conceptually possible to disregard the dissonance altogether, as though the consonance occupied the entire measure in the manner of a first-species exercise. Fux illustrates the idea that first species conceptually underlies fourth species—at least as far as the status of consonance is concerned—in both the two- and three-part contexts.⁽²¹⁾ Fux’s examples—given here as **Figures 1a** and **1b**—are quoted by Schenker.⁽²²⁾

[4.6] Fux reiterates the rule that “as to the consonances, . . . [the ligature, as a delaying of the note following] does not alter anything,” in the four-part context as well.⁽²³⁾ However, apparently for purely practical reasons (writing four obbligato parts can be difficult at times), he relaxes the rule somewhat. The seemingly innocent move turns out to be highly problematic. Here is the relevant part of the discussion:

Joseph.— Does this rule always hold, revered master?

Aloys.—It does not hold in some instances of this species in which the ligatures must sound well together with three whole notes for the duration of a full measure. The commonest instance in which this cannot be brought about is when the seventh is used together with the fifth in the ligature, e.g.: [see **Figure 2a**] *If the ligature were removed, a dissonance with the tenor would result which is faulty and decidedly to be avoided.*

Joseph.—What can one do in this case?

Aloys.—One must divide the whole note in the tenor part, thus: [see **Figure 2b**]⁽²⁴⁾

[4.7] Now, it is pretty obvious that Aloys’s solution to the conceptual downbeat-dissonance (a ninth a–b1) between the tenor and soprano, namely, a momentary combination of fourth species with second species, is no solution at all, since the conceptual dissonance prevails despite the movement in the tenor, as **Figure 2c** makes abundantly clear. In his treatise, Schenker quotes this passage from Fux without comment.⁽²⁵⁾

[4.8] At the same time, Schenker launches a scathing attack on Fux in connection with a related passage appearing only a few pages later. According to Schenker, in this second passage (to which I shall turn shortly) Fux’s “lack of a clearly defined insight. . . <causes him> to become bound up with such unfortunate contradictions or otherwise confused ideas as we have just been able to witness.”⁽²⁶⁾ Schenker is quite clear as to where exactly Fux’s ineptitude lies: “All of Fux’s errors, including the incorrect construal of the topic of subdivision, the poor choice of placement, and finally the confusing treatment with its amalgamation of incommensurate concepts, may arise from his inadequate insight into *the nature of the seventh-chord in general.*”⁽²⁷⁾ The seventh chord. Is it possible that Schenker sensed that a serious threat to his “budding” seventh chord was lurking in Fux’s discussion? Let us consider the most revealing portion of the passage in question, where Fux refers to one of his examples of fourth species in simple four-part counterpoint; Fux’s example is given here as **Figure 3a.**⁽²⁸⁾

[4.9] Note that in two instances—measure 3 and measure 5—Fux violates the purity of the species by introducing half-note motion in the top voice. Significantly, however, unlike the half-note motion in Figure 2b, these motions are fully compatible with the rule that “ligatures do not change anything”; as shown in **Figure 3b**, the removal of the suspended tone in favor of its resolution reveals two completely consonant configurations, 6–5 and 5–6. At the same time, it seems that Fux could have hardly resisted noting that the vertical combination in the first half of measure 5 corresponds to an incomplete seventh chord in third inversion. As Aloys explains, “in the fifth measure of the last example the second is doubled while the sixth which is required for an *absolutely perfect harmony* is missing—as the following example shows: [see **Figure 3c.**”⁽²⁹⁾

[4.10] Now, Schenker is of course correct in criticizing Fux for referring to a seventh chord as “an absolutely perfect harmony” in the context of strict counterpoint;⁽³⁰⁾ and yet, if Fux indeed believed that an inner-voice D on the downbeat of measure 5 would have been so advantageous, what could have possibly prevented him from having it in his example in the first place? Surely not the purity of the species.⁽³¹⁾ Schenker may have found Fux’s passage to be so disturbing precisely because it seems to force a choice between two incompatible alternatives: either a seventh chord is a “harmony” in its own right, in which case the Consonance Principle must be abandoned, or else the seventh chord cannot exist as such in strict counterpoint, even in combined species.

[4.11] This brings us, finally, to Schenker’s “budding” seventh chord. As William Clark correctly observes, Schenker’s distinction between two types of suspensions, only one of which is “authentic,” is crucial in this connection.⁽³²⁾ The syncopes 7–6 (upper part), as well as 2–3 and 4–5 (lower part), cannot be considered authentic according to Schenker, because they “raise doubt about whether the harmony of the downbeat still continues at the third (final) time-unit or whether, because of the interval 6 in the upper (or 3 or 5 in the lower) counterpoint, a second harmony should not perhaps be assumed.”⁽³³⁾

[4.12] This statement, however, deserves close scrutiny. Given a suspension such as 7–6 in the upper part, what could possibly raise doubt as to the identity of the harmony on the weak beat? By CP, the seventh has no independent status, and therefore the interval of the sixth conceptually underlies the entire measure. Since the interval of the sixth, in strict counterpoint, can be associated with only one “harmony,” namely a (consonant) ♯ sonority, there can be no other harmony in this measure in the first place. In other words, there is no question here at all of assuming “a second harmony” on the upbeat, as Schenker would have us believe. Quite to the contrary. Only if one assumed, *in violation of the rules of fourth-species counterpoint*, that a “harmony” other than a ♯ sonority is present on the *downbeat*, is a change of harmony within the measure at all conceivable.

[4.13] Since the traditional rules of strict counterpoint no longer seem to apply, the identity of Schenker’s downbeat harmony is anybody’s guess. Nonetheless, it is fairly clear that the downbeat harmony cannot contain the sixth of the weak beat, since Schenker sees precisely this sixth as the principal agent of harmonic change. But this means that the *seventh of the downbeat must be counted as an essential component of the assumed harmony.* That is to say, the seventh must be considered an essential dissonance.

[4.14] It thus turns out (not quite surprisingly, I would maintain) that Schenker’s distinction between the two types of suspensions is but a thinly-disguised version of Kirnberger’s (and/or Schulz’s) epoch-making distinction between “non-essential” and “essential” dissonance.⁽³⁴⁾ Kirnberger’s distinction is epoch-making precisely because it implies that the seventh chord of free composition is a qualitatively-different entity from the suspended-seventh formations of fourth-species counterpoint. The seventh chord of free composition, in other words, must be assumed as a harmonic entity in its own right.

For Schenker, to openly admit that the seventh chord embodied an essential dissonance is of course out of the question, for such an admission would fly in the face of CP. This ambivalence results in some of the most outrageously self-contradictory prose ever committed to paper by a music theorist.

[4.15] Consider, for example, the following sequence of ideas, which appear in close succession in the opening paragraph of “The budding seventh-chord.”⁽³⁵⁾

- (1) “If we now place the syncopes <previously> described. . . in a row. . . , we easily recognize chords therein which sound the same as the seventh-chord of free composition or its inversions.”
- (2) “The seventh-chord <of free composition>. . . is completely distinct from a suspension-formation. . .”
- (3) “The so-called seventh-chord <of free composition>. . . represents nothing but a triad in which, by means of abbreviation, the passing tone of the seventh appears to be incorporated as a chord member.”
- (4) “(The passing tone, however, relinquishes nothing of its independence <*sic!*> through the fact that it moves forward to another, no less independent, sound.)”
- (5) “Nevertheless, there is certainly still a considerable difference between the seventh-chord of free composition and the syncope-settings named above.”

Now, the only possible sense that one might make of this wild collection of ideas is something like the following statement: “Despite its superficial resemblance to the suspension-formations of strict counterpoint, the seventh chord of free composition [idea no. 1] is not a suspension formation at all [ideas no. 2 and 5]; rather, the seventh chord of free composition is a passing-tone formation [idea no. 3], however, a passing-tone formation of a very special type, unfamiliar to strict counterpoint [idea no. 4].” But clearly, if this is really what is meant (especially with regard to the amazing *parenthetical* reference to the alleged independence of the passing tone), then Schenker’s prose is simply a highly convoluted way of saying that the seventh chord of free composition is qualitatively distinct from the quasi seventh-chord formations (whether of fourth species or second-species origin) of strict counterpoint. The “bridge” between strict counterpoint and free composition simply does not exist.

[4.16] Or consider the following statement, where Schenker, in trying to account for the suspended ♯ formation (which, as he acknowledges, “distances itself the farthest from strict counterpoint”), states that “the tied fifth of this chord represents *that authentic seventh* which free composition has learned to derive by means of abbreviation of an 8–7 passing motion and to incorporate into the triad.”⁽³⁶⁾ Now, the reference to “that authentic seventh” would seem to concede that the seventh chord of free composition is qualitatively different from the suspension formations of strict counterpoint. Schenker, apparently realizing the far-reaching implications of this reference, quickly explains away “that authentic seventh” as a mere passing tone rhythmically displaced (an idea anticipated in the statements quoted above). But if, indeed, the authentic seventh of free composition is “nothing but” contracted passing motion, why bother with a fourth-species model in the first place? And yet Schenker insists, as has been already pointed out, in using a fourth-species model in this case rather than a second-species one.

[4.17] A natural reaction to Schenker’s hopelessly confused account of the “budding” seventh chord—especially by someone who is not particularly sympathetic to his ideas in the first place—would be to give him a good taste of the arrogant and condescending attitude that he repeatedly expressed towards his fellow theorists. After all, was it not Schenker himself, at the very outset of *Counterpoint*, who ridiculed his colleagues (especially, Rameau and Riemann) by comparing them to children playing with dolls?⁽³⁷⁾ Yet what can be more childish than Schenker’s make-believe world where blatant contradictions do not seem to count?

[4.18] Nonetheless, I believe that such a reaction, although not totally unjustified, would miss the point. What it fails to take into account is the extraordinary finding that Schenker clings to the fourth-species model even though he seems to know perfectly well (as the excerpts quoted above strongly suggest) that a second-species model, combined with the simple notion of contraction, could have saved him a lot of trouble. What could be the possible reason for Schenker’s self-defeating

stubbornness in this case?

[4.19] I believe that in light of all the available evidence, there can be only one convincing answer to this question. Schenker was genuinely torn between his commitment to the Consonance Principle, on the one hand, and his awareness, on the other, that the seventh chord of free composition embodied an essential dissonance, a dissonance which, in good faith, simply cannot be explained in the terms of contracted passing motion. Schenker's convoluted prose, therefore, is the product of a tormented mind. One can only nod one's head in sympathy when Schenker, in the very same paragraph from "The budding seventh-chord" where he refers to "that authentic seventh," stamps his foot and reasserts the premise upon which his entire treatise is based: "Thus I repeat once more: In the beginning is consonance! It is consonance alone that carries within itself the fundamental laws of suspensions!"⁽³⁸⁾ Indeed, I believe that the conflict between the authentic seventh and the Consonance Principle is one that Schenker was never able to resolve. As is well known, in *Free Composition* Schenker rules out *a priori* a composing-out of "the dissonant passing tone, including the passing seventh"; yet just a few pages later he discusses examples that "show the composing-out of a seventh chord."⁽³⁹⁾

[4.20] I take it as a tribute to Schenker's intellectual integrity that, at least in *Free Composition*, he made little effort to smooth-out the contradiction. It is therefore most unfortunate that some of his followers have attempted to do just that. William Clark, in particular, explains some of Schenker's seventh-chord prolongations in terms of implied 8–7 passing motion;⁽⁴⁰⁾ where this explanation seems to fail, Clark concedes that "the seventh chord. . . emerges as an exception to this principle [of the consonance of the primary tone]." Nonetheless, he insists that "this exception is not simply an *ad hoc* contrivance appended to Schenker's theory at the last moment, as it were. . . Rather, this exception is based on the unique nature of the seventh chord as revealed in the study of combined species—on the apodictic requirement that the elaboration of a *seventh-chord suspension* must take place within the harmony which contains the dissonance."⁽⁴¹⁾ It is not difficult to see, however, that the seventh chord, the "unique nature" of which the study of combined species is presumed to reveal, is simply *assumed* in the premises of combined species in the first place (note the expression "seventh-chord suspension" in Clark's statement, and compare with Fux's reference to a seventh chord as an "absolutely perfect harmony"); indeed, Clark's naiveté directly reflects Schenker's erroneous notion that a change of harmony is possible within a 7–6 suspension in strict counterpoint.

5. Conclusion

[5.1] I began the present essay by referring to the two goals that Schenker sets forth at the outset of *Counterpoint*: first to separate the study of counterpoint from composition, and only then to reveal their connection. There can be little doubt that Schenker was highly successful as far as the first goal is concerned. However, I believe his success in achieving the second goal must be seriously reassessed. Schenker believed that the "great gulf" between strict counterpoint and free composition may be bridged. Yet at least in two important cases—the triad and seventh chord—this belief does not seem to hold under scrutiny. Contrapuntal theory, by definition, simply cannot escape the constraints of the Consonance Principle, however ingenious the maneuvers one may devise to do so. It is high time to face this fact courageously and to draw the necessary conclusions from it. For surely there exist alternatives to Schenker's contrapuntally-based theory of tonality, a theory of bridges that never were.

6. Appendix: Beyond the Harmony/Voice-Leading Dichotomy

I. Verticalism and Horizontalism

[6.1] In *Traité de l'harmonie*, Rameau states that "melody is only a consequence of harmony."⁽⁴²⁾ For Schenker, on the other hand, as Carl Schachter has stated, "counterpoint is logically prior to harmony and not the other way around."⁽⁴³⁾ Schenker expressed this dependency very clearly in the Preface to *Kontrapunkt*, although he emphasized its historical, rather than conceptual, aspect: "All musical technique is derived from two basic ingredients: voice leading and the progression of scale degrees. Of the two, *voice leading* is the earlier and more original element."⁽⁴⁴⁾ I shall refer to these two opposing views concerning the relative priority in tonal theory of harmony versus counterpoint as "verticalism" (harmony before counterpoint) and "horizontalism" (counterpoint before harmony).

[6.2] If “triad” and “seventh chord,” as asserted in the preceding essay, cannot be defined in contrapuntal terms, counterpoint simply cannot be logically prior to harmony. This conclusion, however, raises at once a number of questions. First, if horizontalism is indeed so fatally flawed, why do Schenker’s horizontalist views seem so compelling nonetheless? And second, what are the theoretical consequences of abandoning such views? In particular, does abandoning horizontalism necessarily mean that one must subscribe to the rival, verticalist approach instead? Such questions are taken up below.

II. Horizontalism and Hierarchical Structure

[6.3] It is instructive that commentators on *Counterpoint*, and especially on “Bridges,” have tended to accept Schenker’s contrapuntal derivation of the triad and seventh chord uncritically, and focused instead on the hierarchical implications of combined species.⁽⁴⁵⁾ As Schenker pointed out, combined species is extremely suggestive as far as hierarchy is concerned, for “when several passing tones occur simultaneously, they join together in a kind of obbligato two-voice setting—that is, for the sake of their own clarification, they cultivate the consonance as the law of their relationship. . .”⁽⁴⁶⁾ In other words, in setting two or more second-species parts against a cantus firmus, the Consonance Principle applies at two distinct structural levels. At the higher level a counterpoint may dissonate against the cantus firmus according to the rules of second species, while at a lower level the counterpoints form, among themselves, consonant relationships in the manner of first species.

[6.4] There can be little doubt that Schenker’s hierarchical conception of combined species is an extremely valuable contribution to contrapuntal theory,⁽⁴⁷⁾ and that the notion of tonal hierarchy, in itself, is profound. What cannot be accepted, however, is the implication that tonal hierarchy, in general, is conceivable *only* in contrapuntal terms. When Carl Schachter, for example, states in connection with his combined-species model of Chopin’s E-minor Prelude that “the Prelude is notoriously resistant to a chord-by-chord ‘harmonic’ analysis,”⁽⁴⁸⁾ I take it that the emphasis is on “chord-by-chord”—a primitive, uni-leveled harmonic analysis. John Rothgeb is even more straightforward in this respect. In connection with a passage from Mozart’s G-minor Symphony, given here in reduced score (strings only) as **Example 1**, Rothgeb not only states that “the chords in bars 28–33 are in no way intended to express a harmonic progression,” but goes so far as to imply that it is wrong to regard “those passing sonorities” as triads.⁽⁴⁹⁾

[6.5] However, there already exists a theory—“functional *Auskomponierung*”—where hierarchy is conceived in exclusively functional-harmonic terms.⁽⁵⁰⁾ Let me briefly demonstrate how such a theory might deal with “those passing sonorities” of Mozart’s Symphony.⁽⁵¹⁾

[6.6] **Figure 4a** presents one possible analysis. The I *Stufe* that underlies the entire passage is prolonged at a lower level by means of a plagal progression I–IV–I (I–S–T). This plagal progression is elaborated at a still lower level by means of two different authentic progressions. The opening I is elaborated by means of an incomplete authentic progression T–D (cf. Salzer’s “backward-relating” dominant). The IV, on the other hand, is prolonged by means of a complete authentic progression T–D–T; however, the final tonic is represented by II, not IV (cf. I–V–VI).

[6.7] Another, possibly more interesting analysis is given in **Figure 4b**. Applying the notion that II is weakly dominant,⁽⁵²⁾ the figure shows a T–S–D–T progression at the intermediate level. **Example 2** shows the statement of this passage in G minor in the recapitulation. Note that the F \sharp on the last beat of measure 215 (a full quarter-note in the woodwinds—refer to the complete score) transforms the II⁶ chord into a diminished VII $\frac{3}{4}$.⁽⁵³⁾

III. Tonal Theory: A Non-Horizontalist View

[6.8] If strict counterpoint cannot account for triads and seventh chords, and moreover there exists no necessary connection between counterpoint and hierarchy, it is clearly pointless to hold on to a horizontalist view of tonality. But once horizontalism is abandoned and the seventh chord is accepted as a harmonic entity in its own right, the Consonance Principle (CP) must also be abandoned; and it also seems that there is no other choice but to subscribe to the rival, verticalist view where harmony is seen as conceptually prior to counterpoint. These two consequences (or apparent consequences) of adopting a non-horizontalist viewpoint shall be examined in the present section.

[6.9] What are the theoretical consequences of accepting the seventh chord, in violation of CP, as a harmonic entity in its

own right? William Clark believes (following Schenker) that such a move would mean “the breakdown of the distinction between consonance and dissonance, which in turn implies the passing of the old harmonic order—the tonal system upon which the music of the masters of the past was based.”⁽⁵⁴⁾ Clark does not seem to realize that, following the same logic, even to admit the plain triad as a harmonic entity would entail such theoretically disastrous consequences, at least insofar as the diminished triad (and arguably also the augmented triad) is regarded as a harmonic entity. In any event, it is clear that Clark’s concern is justified only if the set of consonant intervals is taken as the total intervallic content of one’s harmonic entities (for example, if one recognizes as harmonic entities only the major and minor triads, then the consonant intervals would be the perfect prime, fourth, and fifth, as well as the major and minor third and sixth).

[6.10] But there is absolutely no reason to define “consonance” in just this particular way. A possible alternative is to take as “perfect” consonances those intervals whose special structural status must be assumed in defining the notion “diatonic system”: the perfect octave as the agent of “octave equivalence,” and the perfect fifth (or fourth) as the system’s “cyclic generator.”⁽⁵⁵⁾ Thirds and sixths assume special status (also as cyclic generators) at a lower level, a level where the notion “harmonic entity” (ultimately, the triad and seventh chord) is defined;⁽⁵⁶⁾ hence the “imperfect” consonances. “Consonant interval” defined in this way is *not* identical to the total intervallic content of all (diatonic) triads and seventh chords.

[6.11] One notable consequence of adopting such an approach is that verticalism is no longer the only viable alternative to horizontalism. For the notions “triad” and “seventh chord” are derived from assumptions that include *both* a harmonic *and* a *voice-leading* component.⁽⁵⁷⁾ In the conceptual rivalry between the vertical and the horizontal, in other words, neither dimension is necessarily prior to the other; both dimensions may be conceived *simultaneously*, so that it ultimately becomes impossible to refer to one without implying the other.

[6.12] Thus, in the final analysis, the perennial harmony/voice-leading dichotomy is revealed false. Perhaps this is a case worth remembering. For often it is much easier to fuel the flames of controversy than to attempt to break its vicious circles loose.

Eytan Agmon
Department of Musicology
Bar-Ilan University Ramat-Gan
Israel, 52900
agmone@ashur.cc.biu.ac.i

Footnotes

1. Heinrich Schenker, *Free Composition*, trans. and ed. by Ernst Oster (New York: Longman, 1979), 16

[Return to text](#)

2. Heinrich Schenker, *Counterpoint*, trans. by John Rothgeb and ü, ed. by John Rothgeb (New York: Schirmer, 1987), vol. 1, 10. Throughout this essay, my own interpolations into Schenker’s text shall be enclosed by angle brackets < >, as distinguished from the square brackets [] within which Rothgeb’s original interpolations are enclosed.

[Return to text](#)

3. *Ibid.*, 2.

[Return to text](#)

4. *Ibid.*, 10.

[Return to text](#)

5. For further discussion, see paragraph [6.3].

[Return to text](#)

6. *Counterpoint*, vol. 1, 111.

[Return to text](#)

7. See *Counterpoint*, vol. 1, 112–14. Although Schenker begins by classifying the perfect fourth as a dissonance (page 112), subsequently he states that the interval may realize “its original potential as a consonance” (page 113). As the discussion on page 114 makes clear, the fourth reverts to its original consonant status when formed in the upper parts.

[Return to text](#)

8. *Counterpoint*, vol. 1, 114.

[Return to text](#)

9. See especially Schenker’s critique of Bellermann’s consonance/dissonance classification in vol. 1, 120–22. See also his reference in vol. 2, 101, to “the principle that all intervals are conceived only in relation to the bass even in three-voice counterpoint. . .” It is interesting to note that Schenker’s followers do not necessarily concur with his apparent preference for CP2. In “Strict Counterpoint and Tonal Theory,” *Journal of Music Theory* 19:2 (1975), 282, John Rothgeb prefers “to stand by the postulate that intervals are measured only in relation to the bass.” Yet in *Counterpoint in Composition* (New York: McGraw-Hill, 1969), 28, Felix Salzer and Carl Schachter refer to “the erroneous but rather prevalent idea that any dissonance is permissible in three-part texture if it occurs between upper voices.”

[Return to text](#)

10. *Counterpoint*, vol. 2, 1–2 (emphasis added).

[Return to text](#)

11. *Ibid.*, 2 (emphasis added).

[Return to text](#)

12. *Ibid.*, 3 (emphasis added).

[Return to text](#)

13. Cf. Salzer and Schachter, *Counterpoint in Composition*, 27: “Often the diminished ♯5 is listed among the consonant chords. Strictly speaking this is not true since it contains an unequivocally dissonant interval. However, the fact that the dissonance does not involve the lowest part and the similarity in degree of tension between this chord and the other ♯5 chords allows us to employ the diminished ♯5 as if it were a consonance.”

[Return to text](#)

14. *Counterpoint*, vol. 2, 2. Cf. Rothgeb, “Strict Counterpoint and Tonal Theory,” 282: “In the ♯6 chord of strict counterpoint, unlike that of free composition, both intervals, the fifth and the sixth, must be regarded as absolute rather than as a verticalization of a passing motion. The fifth asserts that the bass tone is the fundamental of the chord, while the sixth denies it; it is this harmonic contradiction that rules out the ♯6 .” Once again, Salzer and Schachter (*Counterpoint in Composition*, 28) reject the validity of CP2 in the first place: “In the chord. . . [$\langle d1, a1, b1 \rangle$, or $\langle d1, b1, a2 \rangle$] there exists no dissonance with respect to the lowest voice. Nevertheless the chord is a dissonance and must be excluded. The dissonances of the second and seventh are too strong to be canceled out by the presence of a supporting tone in the lowest part. . .”

[Return to text](#)

15. *Counterpoint*, vol. 2, 3.

[Return to text](#)

16. Rothgeb attempts in a footnote to rescue some sense out of this statement by explaining that the remark “triads. . . to be treated as consonant” applies to free composition.

[Return to text](#)

17. Given that any root-position seventh chord violates CP2 as well as CP1, it seems pedantic to continue to employ the distinction between the two versions of Schenker’s Consonance Principle. Through the remainder of this essay, therefore,

reference shall be made only to “CP,” with no further qualification.

[Return to text](#)

18. *Counterpoint*, vol. 2, 216 (emphasis added).

[Return to text](#)

19. See, for example, *Counterpoint*, vol. 1, 266–67.

[Return to text](#)

20. Johann Joseph Fux, “The Study of Counterpoint” from *Gradus ad Parnassum*, trans. and ed. by Alfred Mann (New York: Norton, 1965), 96.

[Return to text](#)

21. “The Study of Counterpoint,” 56, 94.

[Return to text](#)

22. *Counterpoint*, vol. 1, 269; vol. 2, 104.

[Return to text](#)

23. “The Study of Counterpoint,” 127; see Figures 187–89.

[Return to text](#)

24. *Ibid.*, 128–29 (emphasis added).

[Return to text](#)

25. *Counterpoint*, vol. 2, 155–56.

[Return to text](#)

26. *Ibid.*, 158.

[Return to text](#)

27. *Ibid.* (emphasis added).

[Return to text](#)

28. “The Study of Counterpoint,” 131–34.

[Return to text](#)

29. *Ibid.*, 132–33 (emphasis added).

[Return to text](#)

30. *Counterpoint*, vol. 2, 158. Mizler’s German translation of Fux’s treatise, which was Schenker’s main source, uses the more neutral phrase “vollkommenen Harmonie.” See page 117 in the facsimile edition (Hildesheim: Georg Olms, 1974).

[Return to text](#)

31. See, however, “The Study of Counterpoint,” measure 9 in Figure 195 (page 131). As Fux explains (page 130), in four-part counterpoint, fourth species, one frequently finds “instances where, on account of a series of preceding or following notes, the octave cannot be employed and the fifth must necessarily be used.” The fifth, in other words, may be used only as a last resort.

[Return to text](#)

32. William Clark, “Heinrich Schenker on the Nature of the Seventh Chord,” *Journal of Music Theory* 26:2 (1982), 225. I shall have more to say about Clark’s essay later.

[Return to text](#)

33. *Counterpoint*, vol. 2, 85.

[Return to text](#)

34. See David Beach and Jürgen Thym, “The True Principles for the Practice of Harmony by Johann Philipp Kirnberger: a Translation,” *Journal of Music Theory* 23:2 (1979), 171. The relation of Schenker’s distinction to Kirnberger’s is noted by neither Rothgeb nor Clark.

[Return to text](#)

35. *Counterpoint*, vol. 2, 215.

[Return to text](#)

36. *Ibid.*, 216 (emphasis added).

[Return to text](#)

37. *Counterpoint*, vol. 1, xxx.

[Return to text](#)

38. *Counterpoint*, vol. 2, 216.

[Return to text](#)

39. *Free Composition*, 61, 64.

[Return to text](#)

40. “Heinrich Schenker on the Nature of the Seventh Chord,” 248–51.

[Return to text](#)

41. *Ibid.*, 257 (emphasis added).

[Return to text](#)

42. Jean-Philippe Rameau, *Treatise on Harmony*, trans. by Philip Gossett (New York: Dover, 1971), 27; see also 152–54.

[Return to text](#)

43. Carl Schachter, “Schenker’s Counterpoint,” *The Musical Times* (October, 1988), 525.

[Return to text](#)

44. *Counterpoint*, vol. 1, xxv.

[Return to text](#)

45. Oswald Jonas, *Introduction to the Theory of Heinrich Schenker*, trans. and ed. by John Rothgeb (New York: Longman, 1982), 52–61; John Rothgeb, “Strict Counterpoint and Tonal Theory”; Carl Schachter, “Schenker’s Counterpoint.”

[Return to text](#)

46. *Counterpoint*, vol. 2, xix.

[Return to text](#)

47. The idea is valuable not only in the context of “several passing tones <that> occur simultaneously.” The tenor’s half-note motion in Figure 2b, for example, may be seen as a lower level, first-species counterpoint to the 7–6 suspension in the soprano (cf. also a 7–6 suspension accompanied by a 5–6 motion).

[Return to text](#)

48. “Schenker’s Counterpoint,” 529.

[Return to text](#)

49. “Strict Counterpoint and Tonal Theory,” 279, 280.

[Return to text](#)

50. Eytan Agmon, “Conventional Harmonic Wisdom and the Scope of Schenkerian Theory: A Reply to John Rothgeb,” *Music Theory Online* 2.3 (1996). The relevant paragraphs are [16]–[18].

[Return to text](#)

51. I have also worked out a multi-leveled harmonic analysis of Chopin’s E-minor Prelude; to consider this analysis, however, would take us too far afield, for the Prelude—unlike Mozart’s passage—is extremely chromatic.

[Return to text](#)

52. See Eytan Agmon, “Functional Harmony Revisited: A Prototype-Theoretic Approach,” *Music Theory Spectrum* 17:2 (1995), 206–208.

[Return to text](#)

53. In “Functional Harmony Revisited,” 208, the dominant potential of II was seen as stronger in minor than in major, an idea that seems to be supported by the present example. Note, however, that since II has dominant potential in major as well as minor, one is able to form, in the present case, a unified harmonic interpretation of two closely-related passages that are nonetheless by no means identical.

[Return to text](#)

54. “Heinrich Schenker on the Nature of the Seventh Chord,” 222.

[Return to text](#)

55. See Eytan Agmon, “A Mathematical Model of the Diatonic System,” *Journal of Music Theory* 33:1 (1989), 1–25; and idem, “Coherent Tone-Systems: A Study in the Theory of Diatonicism,” *Journal of Music Theory* 40:1 (1996), 39–59.

[Return to text](#)

56. Eytan Agmon, “Linear Transformations Between Cyclically Generated Chord,” *Musikometrika* 3 (1991), 15–40.

[Return to text](#)

57. See “Linear Transformations,” 28, Definition 3 and Definition 5. In “Functional Harmony Revisited,” n. 27, I have stated, misleadingly, that the theory of linear transformations expresses “a dependency of the vertical dimension on the horizontal dimension. . . at a very deep level” (a similar misleading statement may be found in “Conventional Harmonic Wisdom,” [11]). While the *specific* vertical formations known as “triad” and “seventh chord” are indeed dependent upon voice-leading considerations, the abstract notion “harmonic entity” (i.e., “cyclically generated chord”) is independently defined.

[Return to text](#)

Copyright Statement

Copyright © 1997 by the Society for Music Theory. All rights reserved.

[1] Copyrights for individual items published in *Music Theory Online* (MTO) are held by their authors. Items appearing in MTO may be saved and stored in electronic or paper form, and may be shared among individuals for purposes of scholarly research or discussion, but may *not* be republished in any form, electronic or print, without prior, written permission from the author(s), and advance notification of the editors of MTO.

[2] Any redistributed form of items published in MTO must include the following information in a form appropriate to the medium in which the items are to appear:

This item appeared in *Music Theory Online* in [VOLUME #, ISSUE #] on [DAY/MONTH/YEAR]. It was authored by [FULL NAME, EMAIL ADDRESS], with whose written permission it is reprinted here.

[3] Libraries may archive issues of *MTO* in electronic or paper form for public access so long as each issue is stored in its entirety, and no access fee is charged. Exceptions to these requirements must be approved in writing by the editors of *MTO*, who will act in accordance with the decisions of the Society for Music Theory.

This document and all portions thereof are protected by U.S. and international copyright laws. Material contained herein may be copied and/or distributed for research purposes only.

Prepared by Nicholas S. Blanchard and Tahirih Motazedian, Editorial Assistants