A CORRESPONDENCE RULE IN FROST'S POETRY AND ITS SIGNIFICANCE FOR METRICAL THEORY

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ROBERT FROST IS KNOWN for his respect of meter. Certainly, however, his poetry is not sing-songy. Given that the abstract metrical patterns he employs are no more immediately apparent to the ear than those of many other poets, the question arises as to why he has the reputation of being a strict metricist. One possibility is that Frost's poetry is recognizable as belonging to a poetic tradition familiar to his readers' ears. In following up on this idea, I will show that metrical theories developed to account for poets of the English tradition can reasonably be applied to Frost.

There are repeated instances in Frost's poetry of what at first look like violations of conventions in the metrical theories I consider here. Within one theory, however, most of these apparent violations disappear when we realize that Frost makes use of a correspondence rule that, while not commonly employed today, has a long history, going back to Chaucer. The evidence from Frost allows one to argue that any adequate theory of metrics for the particular poetic tradition of the poets mentioned in this article must somehow incorporate the effects of

the stress maximum principle.

DEMONSTRATION OF THE VIOLATIONS

There are numerous competing modern theories of metrics for the poetic tradition of interest in this paper. Here I consider four of the more fecund ones. I give only a brief and partial sketch of each theory, just enough to allow the demonstration of an unmetrical line in the Frost corpus. I refer the reader to the original articles for details.

In the demonstration of the problems, I take as a given no correspondence

suggestion that those multiple syllables need be pronounced as a single syllable assigns multiple syllables to a single metrical position, for example, there is no For a discussion of this matter, see Halle and Keyser (1971: chap. 3). of a phonological rule. That is, a correspondence rule relates syllables in a spoken rules other than synalepha, which is common to traditional as well as more line of verse to abstract positions in a metrical pattern. If a correspondence rule paper is to be taken as a phonological rule or even necessarily as an analogue basic insight of an earlier theory. No correspondence rule mentioned in this below become nonproblems when we admit the existence of another corresponmodern theories. As I will show later in the paper, the problems presented dence rule and modify one of the theories considered here to incorporate the

pronunciations of these lines may not call for this particular correspondence rule given below was employed by Frost in generating his pronunciation. Other realizations exist, as witnessed by the recordings); thus the correspondence rule must be generated by our metrical theory if it is to be adequate (given that these possible and plausible. The point is that Frost's realization of the poetic lines them. Of course many different pronunciations of the verse considered here are the stress marks above a line of poetry represent the high stresses as Frost reads analysis are open to either a monosyllabic or disyllabic value, such as ever in my syllable count matches his. Also, individual words that in traditional metrical The examples used in this paper come from the recordings of Frost reading his own poems listed in the bibliography, with just one exception (as noted in I return to this point in the final section. 10 below, are given the value that Frost's pronunciation assigns them. Likewise, in poetry to the monosyllable 'twas, Frost pronounces two syllables here and while a sequence of words like it was, as in example 3 below, can be contracted determining how many syllables there are in a given line of poetry. For example, the text below). I follow faithfully Frost's pronunciations of the words when

HALLE AND KEYSER (H&K)

as unmetrical the following Frost line, among many others: flanked by unstressed (or very low stressed?) syllables. This principle will rule weak (W) position in a line of poetry.² A stress maximum is a strong stress Principle (SMP) according to which a stress maximum cannot correspond to a H&K (1966), when examing Chaucer's poetry, propose the Stress Maximum

۲ You may see their trunks arching in the woods S Σ Ŋ

("Birches," line 17)

KIPARSKY (K1)

ciple (MP) according to which a 1 stress (high stress) cannot fall on a 4 position judged unmetrical: above is judged metrical. But the following Frost line (among many others) is (that is, a W position) unless it is in a monosyllabic word. By this principle, 1 K1, when examining Shakespeare's verse, proposes the Monosyllable Prin-

As large around as the chopping block; 1 2 3 4 5 6 7 8 9

("Two Tramps in Mud Time," line 10 iambic tetrameter: 4 1 4 1 4 1 4 1 a la Kl WSWSWSWS ala H&K)

this below, where a curved bridge under two syllables indicates synalepha: 4 (here also a stress maximum) does not fill the 4 (or W) position. We can see be taken as a violation of either the SMP or the MP since the 1 stress of syllable 4 position). It is not clear, however, whether the result of synalepha here should will only throw a 1 stress (that of syllable 4) onto a 4 (or W) position (the second ment we have for synalepha is in syllables 3 and 4, but applying synalepha here and synalepha is applying, or the extra syllable is line initial. The only environhave two possibilities then: the extra syllable is somewhere in medial position must correspond to the last I (the last S position) of the metrical pattern. We unstressed or low stressed syllables, we know that the final syllable in this line reading of the line), and since extrametrical positions can be filled only by positions in the metrical pattern. The final syllable receives a 1 stress (in Frost's pattern, thus there cannot be a one-to-one correspondence between syllables and There are nine syllables in this line and only eight positions in the metrical

See Napoli 1975 for a discussion of this question.

Other lines from Frost, however, are violations of the MP regardless of the application of synalepha:

ω Because it was grassy and wanted wear; 1 2 3 4 5 6 7 8 9 10

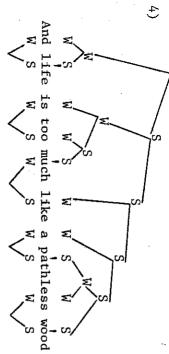
("The Road Not Taken," line 8 iambic tetrameter: 4 1 4 1 4 1 4 1)

even positions in a single analysis of the line for synalepha here that could allow both of these 1 stresses to be assigned to 1 stress falls on polysyllabic words in syllables 2 and 5, yet there is no environment

KIPARSKY (K2

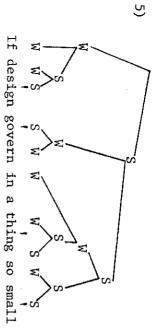
use such lines: syllable, there is low congruity (and high complexity) and some poets may not if a left branch W in the metrical pattern is filled by a right branch stressed tween these two determines the degree of complexity of the line. For example, and into trees in the phonological representation.3 The degree of congruity beothers, proposes that lines of poetry are broken into feet in the metrical pattern K2 (1977), when examining the verse of Milton, Pope, Shakespeare, and

Again, Frost would appear to allow great complexity



("Birches," line 44)

the MP: witness the third syllable in 5: for the MP. However, Frost allows lines of great complexity that also violate The important syllable here is that of much. Of course, 4 could not be a problem



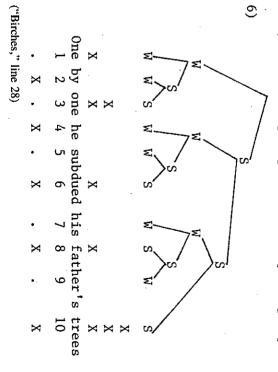
("Design," line 14)

Of course, 5 could not be a problem for the SMP.

HAYES (H)

there is some similarity here with the SMP. or, alternatively, falling). Since peaks are defined relative to at least one neighbor, metrical violations are found when a metrical valley is filled by a phonological more marks than the strongest syllable of its weak sister. He then proposes that add marks so that the strongest syllable of every strong metrical constituent has grids to be set up in the following way: mark every content monosyllable, and peak (perhaps in a specified environment and perhaps only if the peak is rising, H (1983), when examining the English metrical tradition, proposes metrical

allows phonological peaks, both rising and falling and in a variety of environvalleys at both the beginning and the end of a phonological phrase: ments, to fill metrical valleys. In 6 we see that phonological peaks can fall on Again, Frost's lines seem to defy the metrical theory at hand. He freely



The important syllables here are the first and the third

DEMONSTRATION OF A CORRESPONDENCE RULE

syllables to be assigned to one metrical position. I propose that he employs the same correspondence rule that H & K posed for Chaucer (as their Condition 2) metrical positions. Often there are no suitable possibilities for synalepha in these That is, the Monosyllable Correspondence Rule (MCR): lines. Thus, Frost must have some other correspondence rule that allows two Frost has many lines in his poetry that have more syllables than there are

position with a preceding stressed or unstressed syllable An unstressed or weakly stressed monosyllabic word may constitute a single metrical

Examples are numerous. Here I will take just a few from "Two Tramps in Mud Time," a poem in iambic tetrameter. Please keep in mind the fact that the number of syllables I assign to a line and the stress peaks are strictly according to how Frost pronounces them in his recordings. With these syllable counts and with these particular stress peaks, the number of theoretically possible analyses for these lines is much fewer than if we admitted the possibility of monosyllabic scansions for words like *over*. In these examples, a squared bridge under two syllables indicates the application of the MCR.⁴

In these examples the two syllables assigned to one position are both unstressed or weakly stressed.⁵ I have found no examples in Frost's poetry where the MCR applies when the syllable preceding the relevant monosyllablic word is stressed. However, I leave the MCR as is for the sake of generality, since this is the correspondence rule employed by Chaucer.

At this point we may notice that in all of the applications of the MCR thus far, the syllables assigned to a single metrical position are all short in the sense of Kiparsky (forthcoming). Kiparsky defines as short any syllable ending in a vowel or syllabic sonorant. Furthermore, any syllable ending in a single word-final consonant after an unstressed vowel may be treated as a short syllable. He proposes the mechanism of resolution in G. M. Hopkins's sprung rhythm, as follows:

A sequence of short syllables may count as one syllable if all are unstressed. Two (rarely three) short syllables may count as one also if the first is stressed.

If Frost also employed resolution, we would not need the MCR. The crucial question, then, is whether a long syllable can be assigned to the same metrical position as another flanking syllable. Resolution would not allow such an assignment; the MCR would. And, in fact, we find such assignments. Example 8 is also from "Two Tramps in Mud Time." *And*, here, is a long syllable.

I conclude that it is the MCR and not the resolution that Frost employs.

IMPLICATIONS FOR A THEORY OF METRICS

Given the MCR, we can now look back to the four theories outlined at the start of this paper and reanalyze some of the examples.

With regard to the SMP, Frost's poems abound with counterexamples, even once we have recognized the use of the MCR. Thus I remains a problem for this principle, as do the examples in 9 below from "Birches," a poem in iambic pentameter, and many others. In 9 I mark the stress pattern Frost uses in his

recording. Thus both way in line 40 and too in line 44 are very weakly stressed or unstressed in Frost's recording, making down and much stress maxima.

like them remain problems. With regard to metrical grids, 6 and other similar examples remain problems. However, with regard to the MP, we can see that the MCR removes both 2 and 3 as problems: With regard to K2's stress trees, both 4 and 5 and many other examples

Only 5, in which there is a match between number of syllables and number of metrical positions in the line, remains a problem.

sider the examples in 10 from "The Road Not Taken," a poem in iambic tetramemany examples that look like potential problems are not, given the MCR. Con-Still, 5 is the only problem I have found for the MP in Frost's poems. That is without the MCR. ter. I have circled the number of the syllable that would have been a problem

The last example of 10 is a headless line. In light of 10, we might try to reanalyze 5 as headless. The problem here is that if the second syllable of on the first syllable of govern and 2 stress on the second syllable of design. example I have cited for which I do not have a recording by Frost himself analysis of the line within K1's theory. Unfortunately, this is the single problem. With these stresses, no analysis of 5 that I can think of will get around the Thus, in the absence of such crucial information, I read the line with 1 stress if one of those syllables received weak stress could we come up with a metrical design does not violate the MP, then the first syllable of govern will. Only

aligned polysyllabic word, where the word stress of the second word is higher which the misaligned disyllabic word is immediately followed by a correctly speare, as Youmans (1983) shows. Nearly all the violations of the MP that wrong possibility, since 5 is not random; examples like 5 appear in Shakethe MCR is adequate for describing Frost's metrics. This is a simple but is that 5 is a random exception, not a counterexample, and that the MP plus than that of the first. Youmans has found in Shakespeare fit into the same pattern we see in 5, in There are various possible conclusions one could reach at this point. One

only if that syllable constituted a monosyllabic word (the MP) or was adjacent of comparing the stress level of any given syllable to the adjacent syllable or metrical grid theories both (though in different ways) incorporate the standard position is not a stress maximum). Then 5 would not be a problem. to another syllable bearing high stress (so that the stressed syllable in W to the MP in such a way that a W position could be filled by a stressed syllable syllables. We could take the basic insight of these two theories and add them theory that will improve its adequacy for Frost. Notice that the SMP and the K1 theory, we may be able to use 5 to come to a modification of the K1 If instead we consider 5, a counterexample that reveals a problem in the

a word like divine in SW position is not likely to be followed by a word like of the SMP. But divine in 5 can be followed by govern since both are sated for by the stress on rule and the sequence would then be in violation rule in an example like 5 since the final stress on divine could not be compenmonosyllabic word even if the latter occurs to the right of the former. Thus, much more frequently (as in Shakespeare) than the second. Gilbert Youmans syllable of divine would not be an SMP in either case, yet the first case occurs with a stressed syllable than by a stressed monosyllable. That is, the second positions is more likely to be followed by a polysyllabic word that begins polysyllabic words and the misaligned stress of divine is therefore compensated lable in a polysyllabic word outweighs an adjacent stressed syllable in a (personal communication) suggests that for metrical purposes, a stressed syl-The question now arises as to why a word like divine in 5 holding SW

The final proposal, then, is the K1 theory enriched by the SMP

stress to that of the flanking syllables is relevant. modulation of stresses, something that suggests that the relation of each syllable's Frost's poems read aloud by the poet himself is struck by the evenly spaced This result is pleasing with regard to Frost in particular, since anyone hearing

also allows peaks on Ws as long as the peaks are not stress maxima. allows peaks on Ws only if there is also an adjacent peak within the same in Longfellow's Song of Hiawatha there is a rule, the Bounding Rule, which linguistic (here, phonological) constituent. We can see that the Bounding Rule This result is also pleasing in that Hayes (forthcoming) has proposed that

the SMP in some form. propose similar modifications to the theories adopted. I contend that any adequate metrical theory for the verse tradition embodied by these poets must incorporate Thus, Hayes's analysis of Longfellow's work and mine of Frost's work

IMPLICATIONS FOR METHODOLOGY

since I believe it is essentially irrelevant to my point. Instead, setting all value correspondence rule Frost employs, the MCR, emerges only when we study the because I have counted syllables and marked high stresses according to the way example of 10 above, must be analyzed as monosyllabic in order for the line to might have included. To suggest, for example, that a word like ever in the first ings when trying to discern the correspondence rules the poet's metrical theory judgments aside, I propose that whenever recordings of a poet reading original poet's reading of a given poem should be given more value than any other poet's reading of his poetry. At this point the thorny question of whether the has shown, Frost's stresses often do not match what others would do. The in syllable counts and different assignments of stress. And, as Chatman (1956) be metrical is to impose an abstraction on the actual surface form of the poem poetry are available, that the metrical analyst check analyses against these record-Frost himself reads his poetry. On paper, these same lines are open to variations person's reading of that same poem may arise. I will not delve into this question Many of the problem examples in this paper are problem examples only

> available in the metrical theory the poet uses. correspondence rules lead to less valid metrical analyses, but only to metrical metrical form that the poet employs in a given performance of a poem. None realization. We need to allow the surface form that the poet produces if we are abstraction belongs at the underlying level of metrical pattern, not at surface as Frost reads it: Frost pronounces this and similar words as disyllabic. Surely analyses that may not accurately reflect the full range of metrical mechanisms of this is to say that other pronunciations of a poem with, accordingly, other ever to draw the proper correspondence rules between surface form and underlying

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NOTES

for arguing with me over the analysis of several lines, and to Marina Nespor for discussions about Youmans for criticisms of the entire paper. phonological phrase structure. Special thanks go also to Richard Cureton, Bruce Hayes, and Gilbert Thanks go to Michele Burtoff for pointing out problem examples for me, to Bill Fleischmann

- implies any sort of elision or slurring of syllables. when the vowels of those syllables are separated by only certain material. For many poets that intervening material consists of at most one sonorant consonant. The use of synalepha in no way 1. Synalepha is the rule that allows two syllables to correspond to a single metrical position
- would expect that this stipulation would be phrased today in terms of major phonological breaks syllable, that syllable may fill a W position freely. Given more recent work in metrical theory, 2. H&K note that if a major syntactic break immediately precedes or follows a highly stressed
- and Vogel (1982) regarding phonological phrase structure, although I use the symbols w and s at every node, just as K2 and H do. I have chosen my examples in such a way that controversial issues about tree structure do not crucially affect the relevance of these examples to the point I make in phonological tree structure. Actually, the assumed agreement may not exist. Below I follow Nespor 3. Both K2 and H (discussed below in the text) build theories upon assumed agreement in
- a [v] or the MCR is employed. Let me give two more examples from "Birches". a [v] for Frost, however. Instead, there are multiple lines where either synalepha is employed across as Shelley). I have not been able to find any lines where it was necessary to claim synalepha across thus as not employing the MCR. Certainly, there are poets who allow synalepha across a [v] (such 4. It may be possible to analyze line 22 as having synalepha between syllables 4 and 5 and

inner dome of heaven had fallen.

Before them over their heads to dry in the sun.

$$\begin{bmatrix}
1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 \\
1 & 1 & 1 & 1 & 1 & 1 & 1 & 1
\end{bmatrix}$$

synalepha in general. For example, in ii we could propose synalepha across the two segments [rl). Still, it may be that Frost does allow synalepha across [v], since he seems to be liberal about

("Two Tramps in Mud Time," line 25, iambic tetrameter)

respect to synalepha after all. Since this is the only example I have found relevant to this point, I 6-7, we could have the MCR applying in syllables 7-8, thus seeing Frost as more conservative with stressed syllable. In the recording Frost puts stronger stress on the first syllable of tenderly than on Notice that in applying the MCR to syllables 3 and 4, I have treated comes as not being a highly merely raise the issue and leave it open without modifying the MCR accordingly. stressed ones. If the MCR applied to stressed monosyllables, then instead of synalepha in syllables from ii that the MCR should apply to stressed monosyllables as well as unstressed and weakly comes, although comes certainly receives some nonnegligible amount of stress. One might conclude

5. In line 61 Frost gives considerably weaker stress to man's than to work

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