THE DISTRIBUTION OF PREPOSITIONS IN ENGLISH ADVERBIAL PHRASES

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THE DISTRIBUTION OF PREPOSITIONS IN ENGLISH ADVERBIAL PHRASES

THESIS

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KEY TO SYMBOLS

While the symbols contained in the phrase-structure grammar are already well established in the field of transformational grammar, it may nevertheless be useful to provide a key listing a verbal correlate for each symbol. However, the various terms offered as "handles" for these symbols in no way constitute definitions, which are provided within the grammar itself. Thus, $\underline{M}(ain) \ \underline{V}(erb)$ means only that part of the English sentence not included under <u>NOM(inal)</u>, <u>AUX(iliary)</u>, and <u>S(entence) A(dverbial)</u>, and consisting of either <u>be + PRED(icate)</u> or of <u>V(erb)</u> plus an optional <u>LOC(ative)</u>.

AUX=auxiliary

COMP_{mot}=complement of motion DIR=adverbial of direction DUR=adverbial of duration FRQ=adverbial of frequency IO=indirect object LOC=locative (place adverbial) MAN=adverbial of manner MV=main verb NOM=nominal PRED=predicate PRT=particle PUR=adverbial of purpose S=sentence SA=sentence adverbial SOU=adverbial of source SUBS=substantive (i.e., nominal or adjective phrase) TM=adverbial of time V_b=verb of the <u>become</u> class V_i=intransitive verb V_{int}=intransitive verb phrase V_{ic}=intransitive-complement verb V_{io}=indirect object verb V_m=verb of the middle V_{mot}=verb of motion V_p=particle-taking verb VP=verb phrase V_s=verb of the <u>seem</u> class V_{stat}=stationary verb V_t=transitive Verb

.

V_T=transitive verb phrase V_{tC}=transitive-complement verb V_{tComp}=transitive-complement verb phrase

CHAPTER I

INTRODUCTION

1.1 The object of this study, the preposition, traditionally has been given low status in the hierarchy of words. It has been considered merely a relation word which connects a nominal to another element of the sentence. Implicit in the traditional treatment of the preposition is this rewrite rule:

Prepositional Phrase--> Preposition + Noun Phrase Thus, the prepositional phrase has always been considered an exocentric construction with two necessary constituents, the preposition and the nominal, said to "function as" the object of the preposition. While it may seem strange to devote an entire thesis to the study of the common preposition, it is nevertheless true, as Owen Thomas has pointed out, that no detailed, transformationally-rigorous analysis of English prepositions has yet been made.¹ This thesis is intended to serve as a partial solution to this problem.

1.2 In this thesis, the use of the term <u>preposition</u> is restricted in two significant ways. First, it is restricted entirely to those prepositions that are generated by

¹Owen Thomas. <u>Transformational Grammar and the Teacher</u> of <u>English</u> (New York, 1965), p. 200.

phrase-structure rules, excluding from its consideration preposition-like function words introduced by transformations. Secondly, and perhaps more arbitrarily, the term is used exclusively to refer to prepositions that are the first element in prepositional adverbial phrases. Thus, there are many words traditionally treated as prepositions that this thesis excludes from consideration.

1.3 The preposition generated by phrase-structure rules is that form which appears in what is known as the "deep structure" of the language.² This means it will be found only as an elementary unit appearing in the base of the syntactic component below the immediate constituent level of a string of formatives.³ This restriction will rule out preposition-like structures which make up part of the transformation subcomponent.

1.4 Furthermore, the term <u>preposition</u> as used here will specify only that form which structurally constitutes part of an adverbial:

Therefore, to be considered a preposition, such a form must not only take an object; it must also, together with its object, fit into the adverbial classification. In this study,

²Noam Chomsky, <u>Aspects of the Theory of Syntax</u> (Cambridge, 1965), p. 16.

³<u>Ibid.</u>, p. 17.

the preposition will be considered only as an element of the adverbial.

1.5 This analysis of English prepositions includes a generative grammar whereby preposition-based adverbials have been developed from the base of the syntactic component through phrase-structure rules. It is therefore an attempt to arrive at the relationships of various adverbial forms within the general structure of the language. The phrasestructure grammar is as follows:

| 1. | $S \rightarrow NOM + VP (SA)$ |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. | $VP \rightarrow AUX + MV (TM) (DUR) (FRQ) (PUR)^4$ |
| | $MV \longrightarrow \begin{cases} be + PRED \\ V (LOC) \end{cases}$ |
| 4. | $PRED \longrightarrow \left\{ \begin{array}{c} SUBS (LOC) \\ LOC \end{array} \right\}$ |
| 5. | $\left(\left(\begin{array}{c} v_{int} \end{array} \right) \right)$ |
| | $V \longrightarrow \begin{cases} \begin{cases} v_{\text{int}} \\ v_{\text{T}} + \text{NOM} \\ v_{\text{g}} + \text{ADJ} \\ v_{\text{b}} + \text{SUBS} \end{cases} (MAN) \\ \\ v_{\text{m}} + \text{NOM} \end{cases} \end{cases} $ |
| 6. | $\mathbf{v}_{\mathrm{T}} \longrightarrow \left\{ \begin{array}{l} \mathbf{v}_{\mathrm{t}} \\ \mathbf{v}_{\mathrm{p}} + \mathrm{PRT} \\ \mathbf{v}_{\mathrm{t} \notin \mathrm{omp}} \\ \mathbf{v}_{\mathrm{t} \notin \mathrm{omp}} \end{array} \right\}$ |

⁴<u>Ib1d</u>., p. 102.

⁵Paul Roberts, <u>English Syntax</u> (New York, 1964), p. 396.

7.

$$V_{tComp} \rightarrow \begin{cases} V_{tC} + COMP \\ V_{io} + I0 \\ \vdots \\ V_{int} \rightarrow \end{cases}$$
8.

$$V_{int} \rightarrow \begin{cases} V_{i} \\ V_{iC} + COMP \end{cases}$$
9.

$$V_{iC} \rightarrow \begin{cases} V_{stat} \\ V_{mot} \end{cases}$$
10.

$$V_{stat} + COMP \rightarrow V_{stat} + LOC$$
11.

$$V_{mot} + COMP \rightarrow V_{mot} + COMP_{mot}$$
12.

$$COMP_{mot} \rightarrow \begin{cases} DIR \\ SOU \end{cases}$$

1.6 It should be pointed out, of course, that the grammar is by no means intended to be exhaustive in its scope; its purpose is merely to serve as a vehicle to differentiate the various levels at which certain adverbials may be found. Note that the grammar accounts for nine adverbial structures: place, direction, time, duration, manner, frequency, purpose, and source. The structure known as the sentence adverbial is also included. It is presented at a very high level of the grammar, appearing optionally after <u>VP</u> in rule one, whereas the majority of adverbials--time, duration, frequency, and purpose--appear after the main verb in rule two. The locative, or adverbial of place, is described in rules three and four, occurring in the predicate or directly following the verb as an option. None of the adverbials could be described as obligatory, however.

The adverbial of manner appears in the fifth rule as an element following \underline{V} , after every classification of the verb except $\underline{V}_{\underline{m}}$. In rules eight through twelve, the intransitive verb with a complement is divided into $\underline{V}_{\underline{mot}}$ and $\underline{V}_{\underline{stat}}$, with complements of direction and source, respectively. These adverbials will be discussed at greater length in the following chapters.

1.7 In addition to the phrase-structure grammar, a carefully limited lexicon, made up of basic or kernel prepositions which occur in these adverbial forms, may be found in the appendix. The distribution of these prepositions under adverbials in the lexicon is varied. The place adverbial, or LOC, for example, takes up the bulk of prepositions with fifty-five listed in this classification. The direction adverbial, or DIR, comes second with forty-three prepositions listed. Most of the prepositions in these two classifications are overlapping with the exception of half a dozen which are unique for either category. The prepositions governed by the adverbial of manner, or MAN, rank third in number with twenty-seven, followed by the adverbial of time. $\underline{\mathrm{TM}}$, with twenty-two. Also included is the adverbial of duration, DUR, with sixteen prepositions; source, or SOU, ten; frequency, FRQ, and purpose, PUR, two apiece; and the sentence adverbial, or SA, which accounts for only one preposition. Following the lexicon is a list of sentences demonstrating the use of these prepositions in their various adverbial forms.

1.8 Only those nine basic classifications of adverbials mentioned above appear in the lexicon and grammar. Forms which have been arrived at transformationally (not by immediate constituent rules) and forms which have been excluded for various other reasons will be mentioned briefly in order to explain their exclusion. First, however, it will be necessary to review the general structure of the kernel preposition, a basic element of the adverbial.

1.9 Most prepositions in the lexicon, sixty-two of the total, are of the simple type, that is, comprised of one base. These may have one morpheme (down, through, over) two morphemes (around, before, underneath), or even three morphemes (alongside), although this last number is not so common as the first two.⁶ In addition, there are listed some fifteen compound prepositions which consist of two or more free bases, with or without affixes (across from, outside of, down from).⁷ The first element is often an adverb and the second is usually a simple preposition. The third type of preposition is the phrasal, which consists of three words, usually a simple preposition followed by a noun and then another simple preposition, or actually a prepositional phrase followed by another preposition (as far as, by means of).⁸ However, the middle element of these phrasal

⁶W. Nelson Francis, <u>Structure of American English</u> (New York, 1958), p. 306.

⁷<u>Ibid.</u>, p. 307. ⁸<u>Ibid.</u>, p. 309.

prepositions comes in such a wide variety that this type of preposition has been limited to the most basic vocabulary items because of lack of space. Also for this reason, phrasal prepositions in which the middle element has a modifier or determiner, such as <u>for the sake of</u>, have been excluded entirely.

1.10 Preposition-like forms which have been excluded also include those dependent forms which do not stand alone as single word forms. This group is composed mostly of classic Latin forms, such as <u>anti</u>. These bound morphemes appear in construction with both bound and free bases to form independent words (anti-American, antidote). A list of these forms may be found in Glossary A. On the other hand, <u>per</u>, a Latin preposition signifying "by means of" or "through," and <u>via</u>. "by way of," have both been included in the lexicon because they are now classified as independent English words.⁹

1.11 In addition to modified phrasal prepositions and dependent prepositional forms, archaic prepositions which do not appear frequently in current American English speech patterns, according to part four of the word counts of Thorndike and Lorge¹⁰ and to the latest Merriam college

⁹Funk & Wagnalls Editorial Staff, <u>Standard Handbook of</u> <u>Prepositions</u>, <u>Conjunctions</u>, <u>Relative Pronouns</u>, <u>and Adverbs</u> (New York, 1953), pp. 28-34.

¹⁰Edward L. Thorndike and Irving Lorge. <u>The Teacher's</u> <u>Word Book of 30,000 Words</u> (New York, 1944), pp. 259-274.

dictionary,¹¹ have also been excluded from the lexicon. Thus prepositions such as <u>abaft</u>, as in the ancient nautical term <u>abaft the beam</u>; <u>adown</u>, as in <u>adown the rocky erags</u>; and <u>aloft</u>, as in <u>aloft the brooding storm</u>, have all been excluded, along with the Shakespearian use of <u>forth</u>: <u>and drive the English</u> forth the bounds of France.¹² A list of these poetic and archaic forms may be found in Glossary B.

1.12 Another group of preposition-like forms excluded from this thesis requires some comment. Rule six of the phrase-structure grammar includes as one rewrite for $\frac{V_T}{T}$ this rule:

 $v_{T} \rightarrow v_{p} + PRT$

Now this <u>PRT</u> (particle) is itself a complex element representing both traditional prepositions and adverbial particles. Both are to be excluded and it is therefore unnecessary for this rule to be more explicit. However, before this subject is abandoned, it is useful to point out that two quite different classes of verbs are involved. One class of verbs is called "prepositional verbs" by Chomsky and some traditional grammarians.¹³ The other class is known as "particle-

¹¹<u>Webster's Seventh New Collegiate Dictionary</u> (Springfield, 1965).

¹²Funk & Wagnalls, pp. 5-21.

¹³H. A. Gleason, <u>Linguistics</u> and <u>English</u> <u>Grammar</u> (New York, 1965), p. 310.

taking verbs."¹⁴ The difference between the two structures is well known and is clearly signalled by intonational differences. Thus, there are three structures that have to be kept apart: the ordinary adverbial, whose preposition is treated in this thesis; the preposition-like form that is part of a "prepositional verb": and the particle that is part of a "particle-taking verb" (sometimes called "separable verb"). neither of which is treated here. Jespersen has compiled a list of "prepositional verbs" in his A Modern English Grammar. 15

1.13 The difference in these structures becomes apparent in the following comparison:

The book was on the table. (adverbial of location) We can depend on George. ("prepositional verb") He turned on the light. ("particle-taking verb") 1.

2. 3.

Notice that both the first and second forms have characteristic prepositional stress, whereas the third always carries greater stress than its accompanying verb. Notice further that in the third example the particle may be freely shifted to the end of the sentence, whereas this is impossible with the other two: 16

¹⁴Chomsky, p. 190.

¹⁵Otto Jespersen, <u>A Modern English Grammar</u> (London, 1954), III, 252-272.

¹⁶Zellig Harris, "Co-occurrence and Transformation in Linguistic Structure, " Language, XXXIII (July-September, 1957), 297.

- 1. *The book was the table on.
- 2. *We can depend George on.
- 3. He turned the light on.

In these two respects, then, the forms of <u>on</u> in the first two sentences seem to belong to the same class.

1.14 Yet consider an important transformational property of these sentences. Both the second and third, containing the shiftable and non-shiftable particles, are subject to the passive transformation, whereas this is impossible with the first, containing a true preposition-based adverbial, even when a real verb is substituted for <u>be</u>:¹⁷

- 1. "The table was lain on by the book.
- 2. George can be depended on.
- 3. The light was turned on.

Therefore there are quite clear formal distinctions among these three sentence patterns; on the basis of this last distinction the particles can be excluded, although others would justify their exclusion as well. A list of shiftable and non-shiftable particles may be found in Glossaries C and D.

1.15 Another type of preposition-like form which has been excluded from the thesis is that which appears as part of the complement in a transitive-complement verb sentence. as detailed in rules five, six, and seven of the grammar:

> 5. V--> V_T + NOM 6. V_T --> V_{tComp} 7. V_{tComp} --> V_{tC} + COMP

¹⁷Chomsky, p. 101.

This construction comprises a large number of complements beginning with the transitive-complement formed from one underlying base string, as in the sentence.

He put the fire under control.

Here <u>under control</u> forms part of the verb which is one of several so-called "two-word" or compound verbs, and for this reason <u>under control</u> cannot be considered a prepositional phrase used as an adverbial.¹⁸ Preposition-like forms used in a construction like this have therefore been excluded from the thesis.

1.16 Another type of preposition-like element not included is that which forms a complement dealing with two particular forms. to and for, the indirect object consisting of a double base cleft with two underlying strings. This complement is outlined in rule seven in construction with the transitive verb:

 $v_{tComp} \rightarrow v_{10} + 10$

The symbol 10 is further expanded as follows:

$$10 \longrightarrow \begin{cases} to \\ for \end{cases} + NOM$$

An indirect object string would appear thus:

NOM + AUX +
$$V_{io}$$
 + $\begin{cases} to \\ for \end{cases}$ + NOM + NOM

with <u>for</u> or <u>to</u> making up part of the complement of the verb.¹⁹ For example, the sentences

¹⁸Roberts, p. 169. ¹⁹<u>Ibid.</u>, p. 196.

He gave the book to Martha. I cooked the cake for Henry.

contain not basic prepositional phrases but complements of the verbs <u>give</u> and <u>cook</u>. This construction is therefore excluded.

1.17 Most lists of prepositions usually include a number of participial forms: <u>including</u>, <u>regarding</u>, etc. These have not been included because they do not appear in the base of the syntactic component but instead belong to the transformational level. As transforms they derive ultimately from the relative transformation to their participial form. For example, a string such as

The price includes tax.

undergoes first the \underline{T} -REL:

the price which includes tax.

Then <u>T-DEL-ing</u> takes place, in which the relative is deleted and -<u>ing</u> replaces tense.²⁰ Thus the construction becomes

which cannot be considered a kernel prepositional phrase used as an adverbial.

the price including tax

1.18 It is interesting to note that all of the participial forms, which are given in Glossary E, are related to living verbs with the exception of <u>during</u>. This form, which is included in the thesis, was the present participle of the obsolete verb <u>dure</u> (endure), and now has independent status

²⁰<u>Ibid.</u> p. 328.

as a basic preposition which constitutes part of the adverbials of time and duration.²¹ The past participle <u>past</u> is the one other exception to these participial forms, for it is included in the thesis on the basis of its kernel structure in the adverbials of location, direction, and time. Among those participial forms which have been excluded here, those worth noting are the archaic <u>bating</u> from the verb <u>bate</u>. meaning "to diminish," having been replaced by <u>saving</u> or <u>barring</u>, and the form <u>notwithstanding</u>, an unusual compound of a negative with the verb <u>withstand</u>.²²

1.19 Still another form which has been excluded from the study because it is transformational in nature is that deriving from the possessive transformation and employing the form <u>of</u>. For example, the construction,

The hat is John's.

undergoes the relative transformation, as in the case of the participle mentioned in 1.17, and becomes the following:

the hat which is John's

Then a variation of the T-genitive:

WH + NOM₁ + AUX + be + NOM₂ + POSS--> of + NOM₂ + POSS gives the hat of John's, according to Carlota Smith.²³ The double genitive of John's is therefore not actually a kernel

²¹Funk & Wagnalls, p. 19. ²²Ibid., p. 13.

²³Carlota Smith, "Determiners and Relative Clauses in a Generative Grammar of English," <u>Language</u>, XL (January-March, 1964), 46. prepositional phrase but part of a transformation, and it has been excluded also.

1.20 Another construction which has been excluded from the study is the ostensible sentence adverbial which is actually derived from a transformation deletion. This construction covers a wide variety of forms, but all undergo deletion and then <u>T-SM</u> (Transformation-Sentence Modifier) to the front of the sentence. The most obvious is the participial; after <u>T-HEL</u> and <u>T-DEL-ing</u>, the insert is placed at the front of the matrix sentence and becomes a string such as

Considering the menu, the man decided on roast beef. Paul Roberts in <u>English Syntax</u> gives a different type of participle as a sentence modifier, in which the subject of the insert is different from that of the matrix string:

Considering the difficulties, John did well. In this usage, he feels, the construction has actually ceased to be a participle, and therefore it is not dangling.²⁴ However, neither construction is an adverbial which is found in the deep structure of the language, and both must be rejected as a basic sentence adverbial.

1.21 In addition to the participial forms, there are numerous others which have undergone some sort of transformation and deletion before \underline{T} -SM gives them the structure of a

²⁴Roberts, p. 429.

sentence adverbial. These include forms such as <u>besides</u>, <u>except</u>, and <u>save</u>:

Besides Harry, no one came.

This construction seems to be the result of a deletion transformation. This category includes a number of compound and phrasal structures:

On account of rain, the game was called off. Instead of waiting, they left.

More research is needed on these structures, but at this point they cannot readily be assigned to the kernel sentence adverbial classification.

1.22 This construction also claims a number of basic adverbial forms which have simply undergone <u>T-SM</u>. Chomsky believes that the place and time adverbials are "closely associated . . . with sentence adverbials which form a 'presentence' unit in the underlying structure."²⁵ Adverbials of manner also lend themselves to this transformation:

> At five o'clock, Harry arrived. In the garden, people admired the flowers. By running, I caught the bus.

All these strings seem to contain sentence adverbials but these forms are actually the result of the simple $\underline{T}-\underline{SM}$ from the end to the front of the sentence, or else are deleted from an insert sentence. But in this thesis they will be considered only in their basic forms, that is, as place, time, and manner adverbials.

²⁵Chomsky, p. 102.

1.23 A transformational structure that accounts for the form <u>by</u> (which is a preposition when used in the kernel adverbials of location, direction, time and manner) is the general passive transformation:

 $NOM_1 + AUX + V + NOM_2 -- \mathbf{i}$ $NOM_2 + AUX + be + en + V + by + NOM_1^{26}$

A string is therefore converted in the following manner:

John assisted me.--> I was assisted by John.

The sentence contains the function word <u>by</u> identifying the nominal which was the subject of the kernel sentence, not an adverbial prepositional phrase, although the latter would be the traditional definition.²⁷ The transformation is subject to deletion, but it is nevertheless a powerful factor in the formation of English sentences. However, it must be excluded in this study because of its transformational derivation.

1.24 In addition to by, there is new evidence that other prepositional forms are involved in the particular transformation discussed above. Paul Schachter has offered a list of verbs which determine the choice of preposition in certain passive constructions, such as <u>concern</u>, <u>excite</u>,

²⁶Noam Chomsky, <u>Syntactic Structures</u> (The Hague, 1957), p. 43.

²⁷Emmon Bach, <u>An Introduction to Transformational</u> <u>Grammars</u> (New York, 1964), p. 80.

worry, etc.²⁸ In this way he can derive the following sentences:

The test worried the student.--> The student was worried about the test. The test amazed the student.--> The student was amazed at the test.

The verb interest produces a third possibility:

The student was interested in the test. The verb <u>charm</u> takes the form <u>with</u>, on the other hand:

The student was charmed with the test. (Semantically by has traditionally denoted the agent, with, the instrument.) Since these preposition-like forms are each governed by a particular verb. it is possible that the subcategorization of verbs will cause the scope of the passive transformation to be expanded to include a variety of these forms. None would be kernel prepositions, however, and the structure would not be a basic adverbial.

1.25 It is interesting to note that the passive transformation, like \underline{T} -<u>SM</u> mentioned in 1.21, can sometimes disguise itself to appear as a basic adverbial structure. For example, a sentence such as

The novel was written by Tolstoy. formerly labelled as "adverbial of agency," is obviously a

²⁸Paul Schachter, "Some Problems in the Transformational Analysis of English Verbs," a paper read to the Linguistic Society of America in Chicago, December, 1961.

passive transformation.²⁹ Structures appearing to be adverbials of manner are often products of the passive transformation:

The gun was examined by experts. These forms, like the others mentioned, do not appear in the base of the syntactic component of the language, in the deep structure which produces basic prepositional adverbials, and therefore they have been excluded from the thesis.

²⁹Funk & Wagnalls, p. 3.

CHAPTER II

SENTENCE ADVERBIAL

2.1 The first basic or kernel adverbial form to be taken up is the sentence adverbial. This is a difficult structure to discuss because of the ambiguity surrounding its definition, both structural and semantic. Admittedly, it is a structure which is hard to classify as basic to the syntactic component, but it must be considered objectively to get a complete picture of the role which the preposition plays in adverbial structures. The following position has been assigned to the sentence adverbial in the grammar:

 $S \rightarrow NOM + VP (SA)$

It can be seen that this "free" adverbial occupies a very basic position in the phrase structure of the grammar, coming at a higher level than adverbials of location and time, etc.

2.2 It has already been pointed out that some structures thought to be kernel sentence adverbials have actually been transformations (1.20), and these have been eliminated from the study of kernel forms. Nevertheless, it must be acknowledged that this transformational <u>SA</u> is the only one recognized by some grammarians, such as Owen Thomas and

Paul Roberts.¹ According to Roberts, a sentence such as

In the meantime, they played bridge. comes from two base strings: the matrix sentence,

They played bridge.

and the insert sentence, something like

It happened in the meantime.²

Obviously <u>in the meantime</u> is an adverbial of time in its kernel form, but Roberts classifies it as <u>SA</u> in its transformed status because it applies its meaning to the whole sentence pattern, not just part of it. In this study, however, such an adverbial would be classified under the heading of adverbial of time because of the restriction that only kernel forms are discussed here.

2.3 Owen Thomas also sees the <u>SA</u> as deriving by transformation from the form <u>NOM + be + ADJ</u> so that it is attributive to the entire sentence.³

Something is certain.

and

The semester is nearly over.

transform to

Certainly the semester is nearly over. This stand is similar to that of Roberts, who traces a sentence like

¹Thomas, p. 163. ³Thomas, p. 163. ²Roberts, p. 315.

Fortunately, Todd had plenty of time. to an insert sentence.

It was fortunate.

in which <u>NOM \pm be</u> is deleted and <u>-ly</u> added.⁴ The theory that <u>NOM \pm be \pm ADJ can be transformed to <u>SA</u> ending in <u>-ly</u> seems to be at odds with Katz and Postal's suggestion that adverbials of the form <u>ADJ \pm -ly</u> are derived from <u>in \pm DET \pm </u> <u>ADJ \pm way.⁵</u> In other words, the insert sentence may be more like</u>

It happened in a fortunate way.

2.4 It is obvious, therefore, that Thomas and Roberts have not considered the \underline{SA} as a kernel node in the structure

$S \rightarrow NOM + VP (SA)$

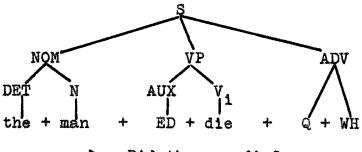
so that if this adverbial is to be justified, one must look further at other evidence. One source is Katz and Postal's <u>An Integrated Theory of Linguistic Description</u>, in which forms such as <u>yes</u> and <u>no</u> are presented as kernel sentence adverbials.⁶ Will prepositional forms such as <u>of course</u> and <u>on the contrary</u> fit the same category? If so, they would provide a case for the preposition in a kernel sentence adverbial structure.

⁴Roberts, p. 313.

⁵Gerrold J. Katz and Paul M. Postal, <u>An Integrated</u> <u>Theory of Linguistic Description</u> (Cambridge, 1964), p. 141. ⁶<u>Ibid.</u>, p. 85. 2.5 In the study mentioned above, the <u>SA</u> is presented as a form which is capable of containing morphemes which trace back to underlying phrase markers in a preceding string. Specifically, the <u>SA</u> can have both an optional <u>Q</u> morpheme and an optional <u>WH</u> morpheme, the <u>Q</u> indicating that its P-marker describes a question and subject to the presence of <u>WH</u>, which has the function of picking out constituents of the P-marker that are questioned.⁷ If both <u>WH</u> and <u>Q</u> are chosen, then the element questioned is the sentence itself, a yes-no question. The following diagram of the sentence,

The man died, of course.

shows the possibilities when morphemes of the sentence adverbial trace back to the yes-no question:



--> Did the man die?

2.6 If simple yes-no questions are based on underlying P-markers containing a sentence adverbial constituent dominating <u>WH</u> in the presence of \underline{Q} , then it is logical, say the authors, that the sentence demand an identical answer (except that the content of \underline{Q} is omitted). For example, the yes-no question,

⁷<u>Ibid.</u>, p. 113.

Did the man die?

contains morphemes which paraphrase the question as

I request you answer "X the man died."⁸ <u>Of course</u> is admitted as a possible answer even though it volunteers more information than strictly requested; it is therefore a deviation of the yes-no sentence adverbial, they feel.⁹ But it is quite possible that it does fit into the category of kernel adverbial in this structure. <u>On the</u> <u>contrary</u> is more doubtful as a kernel form because it deviates even more widely in answering the question morphemes, and structurally it lends itself fairly well to the deleted transformational structure.

2.7 Here again, however, a question arises concerning the legitimacy of the <u>SA</u> as a kernel form. If the <u>SA of</u> <u>course</u>, like <u>yes</u> or <u>no</u>, has its source in the morphemes of P-markers of a yes-no question that precedes it, is it not transformational in character since the yes-no question itself is a transformation? It seems apparent that if such a sentence adverbial form is present in the deep structure of the language, the transformational character of the structure it appears in will not affect its kernel form, so that the structure <u>of course</u> probably should receive strong consideration as a kernel sentence adverbial form. It is the

⁸Ibid., p. 85.

9 Ibid.

opinion of Zellig Harris that an inert construction of this type could "hardly enter into transformations."¹⁰

2.8 The range of kernel SA is apparently guite small. and much more research is necessary before the exact role this structure plays in the grammar can be determined. It should be pointed out that even Katz and Postal adknowledge the variety of SA derived by transformation, for they have clearly referred to sentence adverbials of time, place, manner, condition, quantity, and purpose.¹¹ Apparently their "sentence adverbial of time" is that structure mentioned in 2.2, in which an insert string containing an adverbial of time is deleted by transformation and the adverbial moved to the front of the matrix string by the process of T-SM. This is the transformational structure Troike refers to also, but at the same time he differentiates it from "that elusive species, the sentence adverbial," apparently meaning the kernel form.¹²

2.9 Nevertheless, even though more kernel <u>SA</u> forms are probably in existence, they may fall outside the scope of this thesis because it is doubtful that they would occur in prepositional structures. On the other hand, whether the -ly

¹⁰Harris, p. 335.

¹¹Katz and Postal, p. 159.

¹²Rudolph Troike, "Linguistics for the English Teacher" (the Teacher's Manual for the Texas Education Agency In-Service Training Course in Linguistics for English Teachers), Austin, 1964, p. 35.

form falls into the category of basic node adverbial is still not clear, whether it derives transformationally according to Thomas' or Roberts' <u>NOM + be + ADJ</u> or from the form <u>in +</u> <u>DET + ADJ + way</u>. At any rate, these uncertainties offer ample justification for the conclusion of this thesis that only <u>of course</u> can with confidence be assigned to the base component as a prepositional sentence adverbial.

CHAPTER III

ADVERBIAL OF PLACE

3.1 Prepositions which occur in the place adverbial, or <u>LOC</u>, are as follows:

| athwart | off | across from |
|----------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| atop | on | alongside of |
| before | opposite | apart from |
| behind | over | as far as |
| below | past | away from |
| beneath | round | back of |
| beside | through | down from |
| between | throughout | inside of |
| beyond | under(neath) | out of |
| but | up | outside (of) |
| Ъу | upon | up from |
| diagonal | with | |
| down | within | |
| in | without | ۲ |
| near | | |
| | atop before behind below beneath beside between beyond but by diagonal down in | atoponbeforeoppositebehindoverbelowpastbeneathroundbesidethroughbetweenthroughoutbeyondunder(neath)butupbyupondiagonalwithinwithout |

3.2 The <u>LOC</u> appears the following way in the grammar: $MV \rightarrow \begin{cases} be + PRED \\ V (LOC) \end{cases} PRED \rightarrow \begin{cases} SUBS (LOC) \\ LOC \end{cases}$

Note that of the two alternatives for the Main Verb, <u>be</u> \pm <u>PRED</u> or <u>V</u>, both have the option for a <u>LOC</u>. In the first case, <u>be</u> can take a predicate consisting of a substantive with an optional <u>LOC</u>, or a <u>LOC</u> directly following it:

Marsha was a student at school. Butch was sick in history class.

These two sequences show substantives -- a noun in the first, an adjective in the second -- followed by <u>LOC</u>. However, <u>LOC</u> can follow <u>be</u> directly:

Marsha was at school. Butch was in history class.

3.3 In the second alternative for Main Verb, the verb is followed by a <u>LOC</u> also:

> The car ran over George in the street. We sat under the tree.

This includes any classification of \underline{V} , such as \underline{V}_{int} or \underline{V}_t . or any other \underline{V} detailed in rule five of the grammar. This relation is treated in further detail at a lower level of the grammar in rules eight through ten, also, where it is proposed that in order to take <u>LOC</u>, the intransitive verb occurs in a special classification:

8.
$$V_{int} \rightarrow \begin{cases} V_i \\ V_{iC} + COMP \end{cases}$$

9. $V_{iC} \rightarrow \begin{cases} V_{stat} \\ V_{mot} \end{cases}$
10. $V_{stat} + COMP \rightarrow V_{stat} + LOC$

At this level LOC can appear as follows:

He stood in the doorway.

Here <u>stood in the doorway</u> is composed of the stationary verb <u>stand</u> with its complement, the locative <u>in the doorway</u>. The stationary verb must be intransitive, specifically one that can take a complement.

3.4 There is evidently a very close relationship between $\frac{V_{stat}}{stat}$ and <u>be</u> on several levels. Structurally, the fact that they both precede <u>LOC</u> unites them, and V_{stat} may be substituted

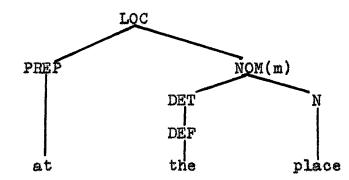
for <u>be</u> almost without exception. As a matter of fact, this characteristic distinguishes verbs which take <u>LOC</u> from $\frac{V_{mot}}{Mot}$ which usually takes only <u>DIR</u> or <u>SOU</u>:

We were away from the others.--> We sat away from the others.

When a $\frac{V_{mot}}{M}$ is substituted for <u>be</u>, however, the adverbial changes from <u>LOC</u> to <u>SOU</u> or <u>DIR</u>, depending on the preposition:

We hurried away from the others. V_{mot} cannot be substituted for <u>be</u> without a change both in semantics and in adverbial form.

3.5 Moving to a consideration of the prepositions which make up part of <u>LOC</u>, one notes the internal structure of the prepositional phrase which forms <u>LOC</u>:



According to the diagram above, the place is the nominal occurring as head of the adverbial of location. This is usually the pattern of the locative, which substitutes for the adverb there in a tree diagram--or, as Katz and Postal believe, there is a reduced form of the structure, at \pm some \pm place, since adverbs are, according to them, reduced versions of <u>PREP</u> \pm NOM.¹ Place usually becomes more specific

¹Katz and Postal, p. 129.

in the actual <u>LOC</u>: <u>house</u>, <u>street</u>, <u>store</u>. There are a wide variety of nouns that serve as the head of the <u>LOC</u>, including both mass and count nouns. most inanimate nouns, and occasionally an animate noun, but all of them seem to resemble <u>place</u> semantically. More important, the whole prepositional phrase is always replaceable by <u>there</u>.

3.6 As noted before, LOC takes up the bulk of prepositions in the lexicon, with fifty-five prepositions listed in this classification. With the exception of a small number, these same prepositions apply also to the classification of direction adverbial. This point is a major one to remember when considering these prepositions: they are not always absolute forms in themselves but may apply variously to one adverbial or another depending on syntax or verb. Nevertheless, the prepositions discussed in this group are termed LOC prepositions because, although they may possibly be used in other adverbial structures, their role in the place adverbial is being discussed here.

3.7 A study of the prepositions that make up adverbials of place reveals a preponderance of forms prefaced by <u>a- or be-: aboard. above. between. beside</u>. The <u>a-</u> is from Old English <u>an</u>. "on." and <u>be-</u> is from the Old English prefix <u>be-.</u> "by."² Although these two forms are the most common among locative prepositions, there are many others which

²Funk & Wagnalls, p. 13.

show that prepositions of today are often compounds that have swallowed up previous prepositional forms, usually along with their objects, an historical process which has resulted in the present kernel preposition form:

preposition + object--> kernel preposition The object was typically a nominal, but may also have been an adverb or even an adjective.

3.8 For example, <u>about</u> is a combination of <u>an</u> and Old English <u>butan</u>, "outside."³ <u>Beside</u> is from Old English <u>be</u> <u>sidan</u>, "by the side of."⁴ There are many combinations not prefixed by <u>a</u>- or <u>be</u>-, of course. A simple preposition such as <u>down</u>, for example, hides the Old English prepositional phrase meaning "off the hill."⁵ Some combinations, on the other hand, are rather obvious, such as <u>inside</u>, <u>outside</u>, etc. But all of these have in common the structure of preposition plus nominal which, as one form, has become a preposition now taking an object of its own.

3.9 Understanding the historical process behind these forms helps to explain their present structure in kernel LOC. For example, between, coming from Old English tweonum. the dative plural of two,⁶ takes a plural object as follows:

Among, however, represents the noun mang, a "crowd." So it

| 3 _{Ibid} ., | p. | 5. | 4 Ibid | p. 16. | | | |
|----------------------|----|-----|--------------------------------|--------|--------------------|----|-----|
| ⁵ Ibid., | p. | 19. | ⁶ <u>Ibid</u> ., p. | 16. | 7 <u>Ibid.</u> , 1 | р. | 11. |

is easy to see that the structure of a locative containing this preposition logically takes a plural object representing a larger number. But aside from the historical explanation, this sequence is set forth structurally by Zellig Harris, who categorizes certain morphemes according to their cooccurrence with others.⁸ However, he does not make the distinction between the two forms above. There is no structural distinction between the plural <u>s</u> form denoting two and that denoting more than two in English, but it should be noted that <u>between</u> is limited to only two nominals whereas among is not.

3.10 It is hard to pinpoint the locative's position in the sentence when prepositions are involved, but as the grammar shows, this adverbial comes after <u>MAN</u>, <u>DIR</u>, and <u>SOU</u>, and usually precedes the other adverbials in this position after the verb. Nevertheless, since most adverbials are fairly free elements in the sentence, one can be shifted to a position before <u>LOC</u> rather easily. This shift is probably the result of an optional transformation. Because <u>LOC</u> does appear with <u>be</u>, it lends itself fairly well to the sentence adverbial transformation, <u>T-SM</u>, also:

> John was in the garden. John worked among the petunias.--> In the garden, John worked among the petunias.

⁸Harris, p. 319.

CHAPTER IV

ADVERBIAL OF TIME

4.1 The twenty-two prepositions occurring in the adverbial of time are as follows:

| above | of | as late (early) as |
|---------|-----------|--------------------|
| after | on | inside of |
| against | past | |
| at | t111 | • |
| before | to | |
| between | toward(s) | |
| Ъу | until | |
| during | upon | |
| in | with | |
| near | within | |
| | | |

4.2 The adverbial of time, \underline{TM} , is also found at a fairly high level of the grammar, occurring as an optional item immediately following the main verb:

 $VP \rightarrow AUX + MV (TM) MV \rightarrow \begin{cases} be + PRED \\ V (LOC) \end{cases}$

Note that the predicate following <u>be</u> (which consists of either a <u>LOC</u> or a substantive followed by an optional <u>LOC</u>) is obligatory, but the <u>LOC</u> coming directly after <u>V</u> is optional, just as <u>TM</u> is. Thus one can say

He is busy (here) around five.

but not

*He is around five.

On the other hand, \underline{TM} may follow \underline{V} directly: The child napped after lunch.

32

or may follow the LOC:

The child napped at home after lunch. The transformation mentioned in 3.10 may apply also, changing after <u>lunch</u> to the position preceding <u>at home</u>.

4.3 There is an important exception to <u>be + PRED</u>. This occurs whenever the subject of the verb <u>be</u> is <u>it</u>, a form that substitutes for <u>the time</u>. In this construction, <u>TM</u> can follow <u>be</u> directly without the intervention of a PRED:

It is after lunch. It is past noon.

This exception is important because it enjoys widespread use in English, and it accounts for an important structural difference in \underline{TM} .

4.4 Ostensibly there are two classes of prepositions, one following <u>be</u> and the second following <u>V</u>; these two are interchangeable for the most part, however. Of the first class, consideration will be given only to the sequence it <u>+</u> is <u>+</u> time which requires no <u>PRED</u>, because the <u>be</u> <u>+</u> <u>PRED</u> structure is fairly regular and requires no further study. The important exception, on the other hand, offers some interesting structural points to consider. There are four prepositions in this category which are unique: <u>of</u>, <u>till</u>, <u>to</u>, and <u>until</u>. These can appear after <u>it <u>+</u> <u>is</u> only with what appears to be a substantive expressing time:</u> It is two minutes until four.

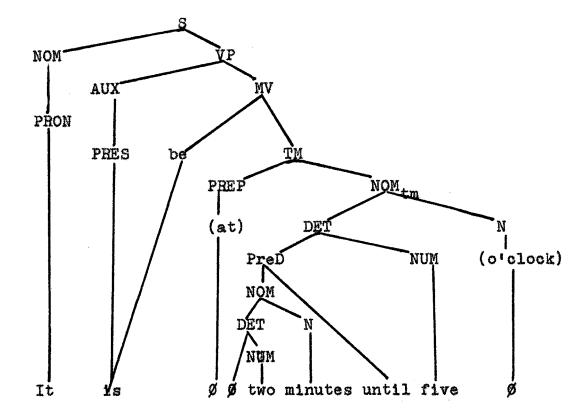
Actually, however, the preposition at and the <u>NOM o'clock</u> are implied, so that the whole construction, (at) <u>two</u> <u>minutes until four (o'clock</u>), constitutes <u>TM</u>. The rest of this group of prepositions may follow <u>it + is</u> directly without a preceding structure needed to make up part of the adverbial construction.

4.5 Regarding the sequence,

It is (at) two minutes until four (o'clock).

an interesting possibility would be to consider the implied forms, (at) (<u>o'clock</u>), as basic to the structure of <u>TM</u> and to derive <u>two minutes until</u> from a predeterminer and <u>four</u> from a determiner modifying <u>o'clock</u>. In this way, a restricter such as <u>only</u> could derive from the same node as <u>two minutes</u>. This structure is suggested by Stageberg in his discussion of prenominal modifiers.¹ The following diagram outlines such a structure:

¹Norman Stageberg, <u>An Introductory English Grammar</u> (New York, 1965), p. 244.



4.6 In the second classification of prepositions, those following \underline{V} , the exceptions are the same. Four prepositions, <u>of</u>, <u>till</u>, <u>to</u>, and <u>until</u>, are the only ones that cannot follow \underline{V} directly; they must be prefaced here again by <u>at + NOM</u>, except that here <u>at</u> is actually present, not just implied, and again it makes up part of <u>TM</u>:

She arrived at ten minutes until four. These four prepositions take the following structure in the diagram which applies both to $\underline{it} + \underline{is}$ and \underline{V} :

$$TM \rightarrow (at) + NOM + \begin{cases} of \\ to \\ till \\ until \end{cases} + NOM$$

As for the rest of the prepositions in the TM class, these

can follow it \pm is or <u>V</u> directly and can apply to either of the two interchangeably.

4.7 The four prepositions mentioned are the only prepositions appearing in the <u>TM</u> category which cannot also occur in the <u>LOC</u> structure; <u>to</u>, an element of the adverbial of direction which occurs with verbs of motion, can be substituted by the other three prepositions. Therefore they are related to direction or movement (forward toward a future time) rather than location. It is true that they may follow <u>V</u> directly in a few cases:

It rained until noon.

without being prefaced by an <u>at</u> construction, but these exceptions are not adverbials of time; they fall into the category of adverbial of duration. Only with the preceding <u>at</u> phrase, fixing the location, do they become <u>TM</u>.

4.8 This fact leads to an important implication: There is a direct link not only between adverbials of duration and direction with their sense of motion, but also between locatives and adverbials of time with their stationary sense. The four prepositions mentioned above must be preceded by <u>at</u> to occur in <u>TM</u>, for the <u>at</u> serves to fix them at a certain point or place in time and cancels their sense of direction:

It rained until noon. gives a sense of passing time, but 36

It rained at a quarter until noon.

places a chronological boundary mark at a certain specific period in time. In fact, it is possible that \underline{TM} is a subclassification of <u>LOC</u>, just as <u>DUR</u> may belong to the classification of <u>DIR</u>:

LOC

DIR

Space: He died at sea. He walked into the house. Time: He died at noon. He talked into the evening.

4.9 The adverbial of time answers the question when, just as LOC answers the question where, and TM in its reduced form boils down to <u>then</u>. If it is true, however, that all adverbials are reduced versions of <u>PREP + NOM</u> structures, as Katz and Postal suggest, the reduced form of <u>then</u> would actually be something like at \pm <u>some \pm time</u>.² Almost all the classes of <u>NOM</u> in <u>TM</u> can be summed up as follows: they clearly refer to points or periods of time, whether by numerals on the clock: <u>after twelve o'clock</u>, or a period of the day: <u>before noon</u>, a day of the week: <u>about</u> <u>Tuesday</u>, or a month or year, even a century. At any rate, they all refer to chronological periods of time, measured by clock or calendar.

4.10 In addition to the transformational shift mentioned in 4.2 in which <u>TM</u> may precede the <u>LOC</u> after the verb, it should be pointed out that <u>TM</u> is a fairly free element which can occur in front of the sentence by <u>T-SM</u>. In this way it

²Katz and Postal, p. 141.

would be converted to a transformational sentence adverbial:

John worked in the garden after lunch.--> After lunch, John worked in the garden.

CHAPTER V

ADVERBIAL OF MANNER

5.1 The twenty-seven prepositions which occur in the adverbial of manner include the following:

| after | despite | through | according to |
|---------|---------|--------------|--------------|
| against | for | under(neath) | by means of |
| along | from | unlike | in spite of |
| as | in | via | out of |
| at | like | with | |
| behind | off | within | |
| beyond | on | without | |
| by | per | | |

5.2 The manner adverbial, or <u>MAN</u>, appears in the grammar at a very high level, appearing as part of <u>V</u>: $MV \longrightarrow \left\{ \begin{array}{c} be + PRED \\ V (LOC) \end{array} \right\} \qquad V \longrightarrow \left\{ \begin{array}{c} V_{int} \\ V_{T} + NOM \\ V_{s} + ADJ \\ V_{b} + SUBS \end{array} \right\} (MAN) \\ V_{m} + NOM \end{array} \right\}$

<u>MAN</u> therefore does not co-occur with <u>be</u>, but it precedes <u>LOC</u>, which comes after <u>V</u>. Note, however, that it is an optional element with the verb, and that although it may appear with either a transitive or intransitive verb, it rarely follows a middle verb, or \underline{V}_h (cost, resemble, have . . .):

*Bob has a car eagerly.

According to Roberts, verbs of the become and seem classes

may take <u>MAN</u>.¹ Gleason, however, includes one of the latter, <u>look</u>, to illustrate his statement that, as a general rule, linking verbs do not admit <u>MAN</u>:²

*Bulldogs look fierce rapidly.

5.3 There is evidently much work still needed on the classification of verbs with <u>MAN</u> before the situation can be clarified. For example, there are cases in which <u>MAN</u> can follow a verb of the middle:

The watch cost like the devil. She resembled her mother in a way.

There is also the possibility, on the other hand, that the examples given to show that certain verb types cannot cooccur with <u>MAN</u> violate only semantic conventions, not structural occurrences. At any rate, Roberts' classification has been followed here, with the understanding that <u>MAN</u> does not follow <u>be</u>, along with many other linking verbs. It is entirely possible that in the future, clause patterns can be subdivided on the basis of their co-occurrence with <u>MAN</u>, as Gleason suggests.³

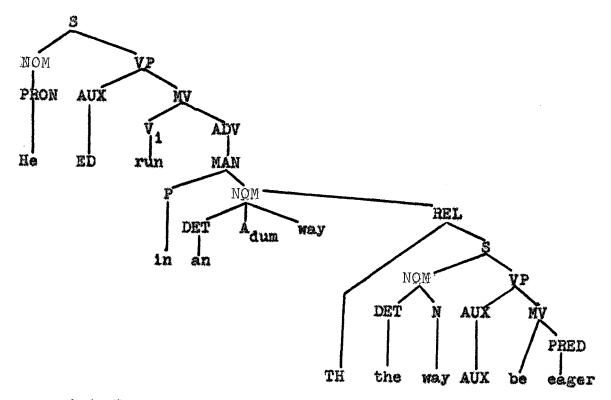
5.4 As noted in section 2.3, Katz and Postal have suggested that adverbials of the form <u>ADJ + -ly</u> derive from the sequence in + <u>DET + ADJ + way</u>. This means that a <u>MAN</u> such as <u>happily</u> is a transformation of <u>in a happy way</u>, and that all adverbials of manner have a preposition in their deep structure, whether the surface structure shows it or not.

¹Roberts, p. 58. ²Gleason, p. 311. ³<u>Ibid</u>.

Katz and Postal would have as a kernel rule, this kind of rewrite for adverbs:

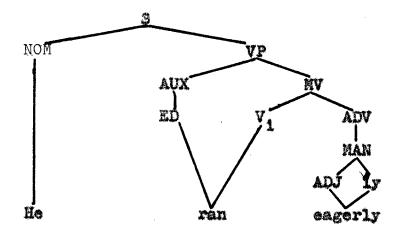
ADV--> $P + D_1 + A_{dum} + N + REL$ 4

<u>N</u> would be rewritten as <u>way</u>. <u>reason</u>, <u>time</u>. <u>place</u>, etc., and the dummy adjective form. A_{dum} , would make it possible to derive <u>ADJ + -ly</u>. The following tree shows how this is arrived at from the deep structure:



5.5 Transformation rules provide for an obligatory relative clause containing be \pm ADJ to the <u>NOM</u>, which is then reconstructed as <u>ADJ \pm -ly</u>:

⁴Katz and Postal, p. 144.



Therefore it is apparent that it is the preposition-based adverbial which occurs in the deep structure of the language. not the $-\underline{ly}$ form, according to Katz and Postal. Since <u>MAN</u> answers the question <u>how</u>, just as <u>LOC</u> enswers to <u>where</u> and <u>TN. when</u>, <u>how</u> would be a reduced form of <u>in what way</u>.

5.6 It was noted in 5.4 that the object of the preposition in <u>MAN</u> is <u>N</u>, which can be rewritten as <u>way</u>, <u>manner</u>, etc. The indefinite determiner, D_1 , listed by Katz and Postal, is actually an optional form in the surface structure which is not always needed to modify <u>N</u>,⁵ However, one can generalize that when <u>N</u> takes certain forms, the use of a determiner can be predicted on a fairly regular basis. For example, when <u>N</u> is a verbal, no determiner is required:

> He was skilled at painting. They won by cheating.

If \underline{N} is a proper noun, there is also no determiner needed: The boy was named for Charles.

If a noun denotes a quality, it requires no determiner as N:

⁵<u>To14</u>.. p. 141.

He spoke in anger. They worked with vigor.

In most other cases, the <u>N</u> does require a determiner, although it can be either definite or indefinite. Also, an adjective is frequently used to modify <u>N</u>.

5.7 According to the grammar, it is evident that <u>MAN</u> can appear before <u>LOC</u> when <u>MV</u> is not <u>be</u>, and therefore precedes all other adverbials as well on a structural basis, except <u>DIR</u> and <u>SOU</u>. However, it was noted in 3.10 that other adverbials can be shifted to the front of <u>MAN</u>, and this is often the case:

She arrived at noon with a happy smile. Adverbs of manner, transformational forms with -ly, can often occur before verbs:

She hurriedly ran to the store. But structural preposition-based adverbials cannot:

*She in a hurry ran to the store.

5.8 Of the prepositions which serve in the structure of <u>MAN</u>, it is interesting to note that all occur also in <u>LOC</u> with the exception of four pairs of prepositions: <u>despite</u> and <u>in spite of</u>, <u>per</u> and <u>according to</u>, <u>via</u> and <u>by</u> (<u>way</u>) <u>of</u>, and <u>like</u> (<u>unlike</u>) and <u>as</u>. It is probably no coincidence that the meanings of the first and second preposition in three pairs are identical, the first a one-word borrowed form and the second a more cumbersome Anglo-Saxon phrase. These eight prepositions appear only in <u>MAN</u>; they are unique in this respect. The last pair, <u>as</u> and <u>like</u>, are used frequently, both denoting a relation of similarity or resemblance:

> He served as best man. He took it like a man.

Probably the two prepositions most commonly used in <u>MAN</u>, however, are <u>with</u> and <u>in</u>, for they can easily make up constructions similar to -ly adverbs (in a hurry--hurriedly; with anger--angrily). <u>At</u> (at a glance) and <u>by</u> (by force) also appear frequently.

CHAPTER VI

ADVERBIAL OF DIRECTION

6.1 The forty-three prepositions which occur in the adverbial of direction, or \underline{DIR} , are as follows:

| aboard | athwart | near | as far as |
|-----------|----------|--------------|-----------|
| about | atop | off | back of |
| above | before | onto | over to |
| across | behind | opposite | up to |
| against | below | over | |
| along | beneath | past | |
| alongside | between | round | |
| amid | beyond | through | |
| among | Ъу | throughout | |
| around | diagonal | to | |
| aslant | down | toward(s) | |
| astraddle | far | under(neath) | |
| astride | into | up | |

6.2 As shown in the grammar, the adverbial of direction occurs with the intransitive verb, more specifically as the complement of an intransitive verb of motion:

$$v_{int} \rightarrow \begin{cases} v_i \\ v_{iC} + comp \end{cases}$$

 $\frac{V_{1}}{1}$ can be divided further into two classes, depending upon the verb used:

$$v_{ic} \rightarrow \begin{cases} v_{stat} \\ v_{mot} \end{cases}$$

It has already been pointed out that <u>LOC</u> occurs with $\frac{V_{stat}}{V_{stat}}$ in section 3.3; actually, at a higher level <u>LOC</u> may also occur with other verb types, including V_{T} . <u>DIR</u>, however, can be preceded only by verbs of motion; it is quite limited in this respect:

$$v_{mot} + COMP \rightarrow v_{mot} + COMP_{mot}$$

 $COMP_{mot} \rightarrow \begin{cases} DIR \\ SOU \end{cases}$

Verbs of motion include such forms as <u>run</u>, <u>hurry</u>, <u>walk</u>, or any verb denoting motion or direction.

6.3 As shown in the grammar, <u>DIR</u> prepositions form a close relationship with the verb, probably closer than most other adverbials which are not quite so dependent upon the verb. It will be noted in the next few sections, for example, that <u>DIR</u> is not quite so free syntactically as some other adverbials. The prepositional form which co-occurs with the transitive verb, however, forms such a rigid complement that it has been omitted as <u>DIR</u>:

He put the gun on the table.

This structure is presented in rule seven of the grammar and discussed in section 1.12-15. As a matter of fact, some grammarians, such as Troike, would exclude <u>DIR</u>, which occurs with V_1 . from the structure of adverbial on this same basis.¹

6.4 It has been mentioned before that prepositions are usually not absolute forms in themselves; the list of prepositions in the <u>LOC</u> classification of the lexicon overlaps that of <u>DIR</u>. In fact, the similarity often gives rise to

¹Troike, p. 36.

some confusion, but there are two simple ways to distinguish <u>LOC</u> from <u>DIR</u>. The most obvious is to check to see whether the verb is V_{mot} or V_{stat} . Moreover, of the forty-three prepositions which occur in <u>DIR</u>, there are seven which can serve in <u>DIR</u> but never in <u>LOC</u>. These seven prepositions comprise the <u>to-group</u>: <u>into</u>, <u>onto</u>, <u>to</u>, <u>toward(s)</u>, <u>over to</u>, and <u>up to</u>.

6.5 There is an important functional reason which precludes the use of these prepositions in <u>LOC</u>. The latter can follow <u>be</u>--that is, a sentence such as

He stood in the corner.

can be converted to

He was in the corner.

with no important semantic change. The <u>to</u>-group, however, cannot follow <u>be</u>:

*She was to the store.

is not grammatical. It should be added that there are some exceptions in colloquial use; for example, in some Midwest American dialects this structure is acceptable. Nevertheless, this rule holds true generally.

6.6 Syntactic structure places <u>DIR</u> directly after the intransitive verb, taking its place before <u>MAN</u>. One can say

We walked there in a hurry.

but not

*We walked in a hurry there.

But when $\underline{\text{DIR}}$ is a preposition-based adverbial, not an adverb, the syntax is a little freer and the transformation noted in 3.10 can occur in some cases:

> We walked to the store in a hurry. We walked in a hurry to the store.

The length of <u>DIR</u> in this case probably makes syntax much looser than usual. It should be noted that word order here is also relatively unimportant in identifying the structure after the verb, with the result that it should not be used as the basis for making the distinction between <u>LOC</u> and <u>DIR</u>.

6.7 There is still one more way to make this distinction; it is important to note that <u>DIR</u> rarely occurs before the subject of the sentence, either as a simple <u>T-SM</u> or as a twostring transformational sentence adverbial, except in poetry. Nor can it appear between the <u>NOM</u> functioning as subject of the sentence and the verb, a structure derived from the relative transformation, as it can in <u>LOC</u>. These transformations usually require <u>be</u> in the insert sentence, and <u>DIR</u>, as pointed out in 6.5, cannot follow <u>be</u>. Examine the following sentences:

The fish swam slowly into the pool. (-->) The fish swam slowly in the pool. (O)

The adverbial in the first sentence, a <u>DIR</u>, cannot be transferred before the verb, either before the subject or the verb except in poetic forms:

> *Into the pool the fish swam slowly. *The fish into the pool swam slowly.

However, the following sentences with <u>LOC</u> will obtain, even though there is a semantic change in the second sentence as the result of \underline{T} -<u>REL</u>:

> In the pool the fish swam slowly. The fish in the pool swam slowly.

If there is any doubt whether an adverbial denotes <u>LOC</u> or <u>DIR</u> when the preposition belongs to both categories, then, the adverbial can be tested to see whether it co-occurs with V_{mot} or V_{stat} ; whether it can follow <u>be</u>, or whether it can occur before the subject or verb of the sentence in normal usage.

6.8 To has been mentioned as a uniquely <u>DIR</u> form. However, to as a preposition must be carefully distinguished from to used as the sign of the infinitive:

The soldiers were prepared to fight. <u>To</u> as a preposition also must not be confused with the <u>to</u> used as indirect object noted in 1.16:

Susan gave the tie to George.

In addition, there is a form of <u>to</u> that occurs as part of the "separable" verb mentioned in 1.12, such as <u>answer to</u> and <u>listen to</u>. Another preposition of the <u>to-group</u>, <u>toward</u>, is a unique form deriving from Old English <u>to</u> and <u>-weard</u>, a suffix denoting "motion to or from."² It is thus a modified form of <u>to</u>, never reaching the full force of this form but always stopping with the idea of direction or approach.

²Funk & Wagnalls, p. 33.

The other prepositions in this group are simple to forms combined with adverbs to give them a more specific direction.

6.9 Of the prepositions which may occur in either <u>LOC</u> or <u>DIR</u>, the form <u>along</u> is worth mentioning because it carries the idea of "extent or motion in the direction of length."³ <u>Beside</u> and <u>by</u> may convey this same meaning:

> We walked by the river. We walked beside the river. We walked along the river.

Usually a V_{mot} will accompany <u>DIR</u>, whereas V_{stat} immost often occurs with <u>LOC</u>:

We sat by the river. We sat beside the river. We sat along the river.

6.10 Although <u>TM</u> answers the question <u>when</u> and <u>LOC</u>, the question <u>where</u>, <u>DIR</u> can answer only the obsolete form <u>whence</u> (to where). Its reduced form, the obsolete <u>thence</u>, would then be derived from to \pm <u>some</u> \pm <u>place</u>, if the theory that adverbs are reduced versions of $\underline{P} \pm \underline{N}$ structures is accepted. With the loss of <u>thence</u>, <u>DIR</u> has sometimes been the source of confusion because there is usually nothing to distinguish (-->) and (③).

³Ibid., p. 4.

CHAPTER VII

ADVERBIAL OF SOURCE

7.1 Prepositions which occur in the adverbial of source, or <u>SOU</u>, consist of the <u>from</u>-group:

| across from | down from | from |
|-------------|-----------|------|
| apart from | up from | |
| away from | | |

and its equivalent, of, with its variations:

```
out (of)
outside (of)
of
```

<u>SOU</u> is introduced in the phrase-structure grammar in conjunction with <u>DIR</u>. Like <u>DIR</u> it cannot co-occur with <u>be</u>, only the <u>V</u> classification of the main verb; more specifically, it requires the intransitive verb which has a complement, or $V_{1C} \pm COMP$, and from this structure it is narrowed down even further to the verb of motion which takes a complement of motion, either <u>DIR</u> or <u>SOU</u>:

$$v_{mot} + comp \rightarrow v_{mot} + comp_{mot}$$

 $comp_{mot} \rightarrow \begin{cases} DIR \\ SOU \end{cases}$

7.2 This adverbial has the same structure as $\underline{\text{DIR}}$; besides the fact that it cannot appear with <u>be</u>, it cannot appear before the subject or verb of a sentence:

*From the building he ran.

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nor appear in a transformation where <u>be</u> is required in the insert string. But there is an exception to this rule which will be discussed in detail later. However, although <u>DIR</u> and <u>SOU</u> are related structurally as a pair and co-occur with $\frac{V_{mot}}{mot}$, the first appears in the <u>WH</u>-transformation as <u>where</u> . . . to and the second as <u>where</u> . . . <u>from</u>. A more obvious difference is the fact that they use different prepositions: just as <u>to</u> is the preposition which signifies <u>DIR</u> (<u>to</u> + <u>some</u> + <u>place</u>). <u>from</u> signifies <u>SOU</u>, which may be summed up as <u>from</u> + <u>some</u> + <u>place</u>:

He ran to the building. He ran from the building.

7.3 The prepositions used in this particular adverbial, in fact, are almost uniquely in the <u>from</u> class. As mentioned in 7.1, there are the <u>from</u>-group and the <u>of</u>-group, the latter just an older variation of <u>from</u>. Most are used in <u>LOC</u> and <u>SOU</u> adverbials, but <u>from</u> and <u>out of</u> occur also in <u>MAN</u>, the former again in <u>DUR</u>, while <u>of</u> appears also in <u>TM</u>. The <u>NOM</u> which serves as object of the preposition in <u>SOU</u> specifies place or location in some manner: <u>the store</u>, <u>Texas</u>, <u>29 Main</u> <u>Place</u>. Therefore they all have this characteristic which they share with the <u>LOC</u>, with the difference that <u>LOC</u> usually takes V_{stat} whereas <u>SOU</u> and <u>DIR</u> take V_{mot}.

7.4 It was mentioned in section 7.2 that <u>SOU</u> could not co-occur with <u>be</u>. This is true with most prepositions appearing in <u>SOU</u>; when <u>be</u> is used, one can generally assume

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that the adverbial is a <u>LOC</u>. It will then answer the question where with from omitted:

Where is he? He is across from the garage. He is apart from the group. He is away from the office. He is down from the attic. He is up from the cellar. He is out of the building. He is outside of the store.

However, when the simpler forms from and of are employed, from is needed in the \underline{WH} -transformation:

> Where is he from? { He is from Missouri. He is of Ireland.

Obviously these adverbials would not be classified as <u>LOC</u>, but they do appear with <u>be</u>. Although <u>of</u> is becoming archaic or poetic in usage, <u>from</u> in this sequence is used very widely. Therefore, it accounts for an important exception to the statement that <u>SOU</u> co-occurs only with V_{mot} . Yet it could perhaps be explained as an abbreviated form of V_{mot} with only the auxiliary remaining:

He is (come) from Ireland. The auxiliary today would of course be <u>have</u>, but one might conjecture that at the time the deletion took effect, <u>be</u> was actually the auxiliary form.

7.5 As mentioned in section 7.3, <u>from</u> serves not only in <u>SOU</u> but in <u>DUR</u>. For example, one might say

The building dated from 1600. Here there may be some question whether <u>from</u> appears in <u>SOU</u> or <u>DUR</u>, for the question form. <u>when</u>, does not absorb the preposition as it usually does:

When does the building date from? is the result. Nevertheless, from in <u>80U</u> is usually replaced by <u>where</u> . . . from, and the form here is definitely <u>when</u> . . . from. Also, there are other cases in which prepositions occurring in <u>DUR</u> are not absorbed by the <u>WH</u>-form.

> I will be here for one hour. How long will you be here for?

The line between <u>SOU</u> and <u>DUR</u> can sometimes be somewhat thin, however, and the form above might be challenged as <u>SOU</u>. On the other hand,

The society dated from 1600 to 1900. would definitely belong to the <u>DUR</u> category, whereas the two sentences,

> He drove from Fort Worth to Dallas. He drove to Fort Worth from Dallas.

would be classified as <u>SOU-DIR</u> and <u>DIR-SOU</u>, for these two adverbials can appear concurrently with $\frac{V_{mot}}{mot}$; neither has precedence.

7.6 It has been stated that <u>from</u> signifies <u>SOU</u>; interestingly, <u>from</u> is originally Old English <u>fram</u>, signifying primarily "removal or separation in space or time."¹ Another use of <u>from</u>, as in

The airport is five miles from Denton. is actually <u>LOC</u> with <u>at</u> implied but omitted. <u>At</u> is needed here just as it is needed with <u>to</u> in <u>TM</u> (4.6) because <u>from</u>, just as <u>to</u>, co-occurs with V_{mot} only and requires the <u>LOC</u> form, <u>at</u>, to be able to co-occur with <u>be</u>, or else it would not qualify in this particular structure.

CHAPTER VIII

ADVERBIAL OF DURATION

8.1 The adverbial of duration, or <u>DUR</u>, is made up of the following prepositions:

| across | for | through |
|--------|--------------|------------|
| along | from | throughout |
| beyond | into | t111 |
| down | round | until |
| during | since | up to |
| | as (late) as | |

Structurally <u>DUR</u> appears on the same level as <u>TM</u>, which means that it, too, can co-occur with either <u>be</u> or <u>V</u>:

 $MV \longrightarrow \begin{cases} be + PRED \\ V (LOC) \end{cases}$

VP-- AUX + MV (TM) (DUR)

Since <u>PRED</u> consists of either a substantive with an optional <u>LOC</u>. or simply <u>LOC</u> by itself. it is clear that <u>DUR</u> has a wide range. Following <u>be</u>. it can take <u>LOC</u> or a substantive:

The girls were at the park for three hours. The baby was sick during the night.

On the other hand, it can follow \underline{V} directly or take LOC:

We worked for three hours. Susan read in her room till noon.

8.2 Although <u>DUR</u> appears in the same slot as <u>TM</u>, there is a great difference in the structural makeup of these two adverbials. The few prepositions they share require <u>at</u> to precede in the <u>TM</u> category (section 4.6). On the other hand, <u>as (late) as</u>, a form which can appear in either adverbial.

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is TM or DUR depending upon the verb used:

He arrived as late as eight o'clock. (<u>TM</u>) He remained as late as eight o'clock. (<u>DUR</u>) Clearly this is indicative of the need to subcategorize verbs according to their adverbials. In the first sentence, the <u>WH</u>-transformation would be <u>when</u>, and in the second the question form would be <u>how long</u>.

8.3 If how long is the question form of DUR, the basic prepositional form is probably for some time. This would contrast to the form for TM: at some time. It was suggested in section 4.8 that \underline{TM} may be a subclassification of <u>LOC</u> and that <u>DUR</u> may belong to <u>DIR</u> in the same way, owing to their prepositional forms. In most cases, it must be noted, prepositions which appear in <u>DUR</u> appear also in DIR. The exceptions are obvious: as late as refers to a temporal idea, but it has a counterpart in DIR: as far as. During and since appear only in <u>DUR</u>; they are unique in this respect, and they also have a temporal status. Till and until also express this, and from, in addition to appearing in DUR, occurs in <u>SOU</u>, a counterpart of <u>DIR</u> with V_{mot} . Therefore it can be stated that DUR and DIR have definite structural similarities, with only obvious exceptions relating to their differing spatial and temporal concepts (4.8).

8.4 One characteristic of <u>DUR</u> is that the preposition is sometimes omitted:

The boys stayed (for) three hours.

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Note that the object of the preposition in <u>DUR</u> is usually a temporal expression. In this case, as in the case of the prepositions listed in 8.3, <u>DUR</u> does have something in common with <u>TM</u>, in addition to filling the same slot. This object is expressed in minutes, hours, days, weeks, months, years, just as in <u>TM</u>. It is often expressed in digits, representing periods of time as measured by the clock or calendar.

8.5 One very interesting preposition which occurs in \underline{DUR} is <u>since</u>, a form uniquely \underline{DUR} which is unusual in that it almost never occurs in the present tense:

*They are here since noon.

In most cases this particular structure requires <u>have \pm en</u> to be grammatical:

They have been here since noon. The preterit tense is also grammatical with <u>since</u>, although not as common:

They were here since noon.

8.6 Although <u>DUR</u> appears after <u>be</u>, it does not usually appear before the subject of the sentence:

*Till midnight, he stayed.

However, there are some cases in which it is transposed by \underline{T} -<u>SM</u>, depending on the preposition used in <u>DUR</u>. In general there are seven of these prepositions occurring in <u>DUR</u> when it can be shifted: <u>during</u>, for, <u>through(out)</u>, <u>until</u>, <u>across</u>,

along, and down:

The students played gin rummy for three hours.--> For three hours the students played gin rummy.

Other prepositions in this category may sometimes occur before the subject of the sentence, but usually in some other adverbial structure, not <u>DUR</u>.

CHAPTER IX

ADVERBIAL OF FREQUENCY

9.1 There are two prepositions in the adverbial of frequency, or FRQ:

at on

FRQ shares the same slot as TM and DUR:

VP--> AUX + MV (TM) (DUR) (FRQ) MV--> $\begin{cases} be + PRED \\ V (LOC) \end{cases}$ This means that <u>FRQ</u>, like its two counterparts, can follow <u>be</u> with either a substantive and optional <u>LOC</u>, or with just <u>LOC</u>:

> He is busy (in the library) at times. Lucy is here on Mondays.

FRQ can also follow the verb, with or without a locative:

She spoke (in class) on occasion.

9.2 This adverbial can be placed before the subject in $\underline{T-SM}$ almost without exception:

At times he was busy in the library.

Its position between the subject and verb is also common when it appears in its transformed status as adverb with -lyending (section 2.3):

The girls occasionally were late to supper. However, it does not usually appear in this position when it appears in $\underline{P} + \underline{NOM}$ form, although there are a few exceptions:

The girls on occasion were late to supper. In this respect it is similar to <u>MAN</u>; the preposition-based form causes a change in syntax (section 5.7). Its position following the verb, according to the phrase-structure grammar, follows <u>MAN</u> and <u>LOC</u>, as well as the complements <u>DIR</u> and <u>SOU</u>, and is co-equivalent to <u>TM</u> and <u>DUR</u>. It is not surprising, however, that when <u>FRQ</u> appears as a prepositionbased adverbial, the transformational shift to various positions following the verb, mentioned in section 3.10, is fairly common:

> She worked in the office at times. She worked at times in the office.

Syntax would depend upon where emphasis was placed.

9.3 FRQ poses the question how often or how many times in the WH-transformation, taking an optional adverb of degree in the yes-no question form:

How often did he come? How many times did he come? Did he come very often? Did he come very many times? There is a prototype adverbial structure of <u>at times</u>. <u>FRQ</u> is necessarily limited to a handful of prepositions, <u>at</u> and <u>on</u>, because of the nature of this structure, which appears in transformational adverb form as <u>occasionally</u>, <u>sometimes</u>, <u>often</u>, <u>frequently</u>, <u>seldom</u>, etc. The preposition <u>in</u>, as in

> The machine gun was fired in rapid succession. The water came in quick spurts.

semantically presents a possible case as belonging to FRQ.

but structurally it presents the <u>WH</u>-transformation as <u>how</u> rather than <u>how many times</u>, and thus is best considered as belonging to <u>MAN</u>.

9.4 The structure of <u>FRQ</u> requires a <u>NOM</u> serving as object of the preposition which is usually in the plural form. <u>On</u> can be followed by periods of time, such as days of the week or months of the year, in addition to the form <u>occasion</u> which is either in plural form or expresses continual action, signified by use of the present tense:

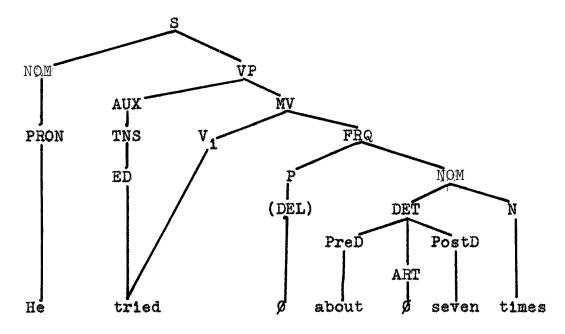
> He came on three occasions. He comes on occasion.

<u>At</u> can be followed by expressions of time in the plural, including <u>times</u>, <u>intervals</u>, etc. Thus one characteristic of <u>FRQ</u> can be stated as its tendency to be expressed in the plural, with the exception noted above.

9.5 Both prepositions may sometimes be omitted:

The maid comes every Tuesday and Friday. He tried about three times.

Note that when the preposition is deleted, there is usually a fill-in by the determiner:



9.6 It is interesting to note that <u>at</u> and <u>on</u> appear also in <u>TM</u> and <u>LOC</u>, but it would be very difficult to subclassify <u>FRQ</u> under any other adverbial form until more research is done. Semantically there would be a tendency to classify it under <u>TM</u> because the object of the preposition is expressed temporally, but this would be structurally unsound; it has already been pointed out that although <u>DUR</u> expresses a temporal state, it is more nearly related to <u>DIR</u> than <u>TM</u>. One of the differences between <u>FRQ</u> and <u>TM</u> is that the former is expressed in the plural and the latter is singular. It would take a great deal of research in order to establish a link between FRQ and other adverbials.

CHAPTER X

ADVERBIAL OF PURPOSE

10.1 The adverbial of purpose, or <u>PUR</u>, just as <u>FRQ</u>, is limited to two prepositions:

on for

<u>PUR</u> appears with several other adverbials in its position following the main verb in the phrase-structure grammar:

 $\begin{array}{ccc} VP \longrightarrow & AUX + MV (TM) (DUR) (FRQ) (PUR) \\ MV \longrightarrow & \left\{ \begin{array}{c} be + PRED \\ V (LOC) \end{array} \right\} \end{array}$

After be it takes a predicate, either a substantive and possibly LOC or just LOC alone:

He was early (in the office) for a reason. After the verb, <u>PUR</u> can appear with or without <u>LOC</u>:

He worked (in the yard) for good cause. <u>PUR</u> therefore appears in the grammar in the same slot as the great bulk of adverbials.

10.2 <u>PUR</u> does not ordinarily appear at the front of the sentence in <u>T-SM</u> as do <u>FRQ</u> or <u>LOC</u>.

*For a reason she is working.

is not grammatical, although there are a few constructions which under certain circumstances are acceptable, as when the <u>NOM</u> contains the indefinite determiner <u>some</u>:

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For some reason, the window was left open. Other exceptions might include modified <u>NOM</u>, etc. There are also a few exceptions to the rule that <u>PUR</u> does not appear between the subject and the verb of a sentence:

Herbert, for a good reason, was late to the office. After the verb, <u>PUR</u> appears in conjunction with the three other adverbials mentioned in 10.1:

He was in the office frequently at noon for a good reason. The location of <u>PUR</u> after the verb is varied. It can appear after <u>TM</u>, which is often last in order when more than one adverbial appears in a sentence, for example. But the transformational shift mentioned in 3.10 can sometimes shift it before even <u>LOC</u>:

The child hid on purpose in the tall weeds. 10.3 <u>PUR</u> appears in the following structures:

 $PUR \rightarrow \begin{cases} for + D + reason \\ on + purpose \end{cases}$

Such structures are necessary to account for WH questions:

Why did he come? What did he come for?

The <u>WH</u>-transformations <u>why</u> and <u>what</u> for have their counterpart in the prototype phrase-structure adverbial for <u>some</u> <u>purpose</u>. The object of the preposition is a <u>NOM</u> which can specifically substitute for <u>purpose</u>: <u>reason</u>, <u>cause</u>, etc. Since there are also few prepositions which can occur in <u>PUR</u>, this adverbial is therefore quite limited. It is useful, however, in accounting for the structure <u>because</u> (for the reason that . . .).

10.4 If a <u>NOM</u> other than those mentioned in 10.3 appears as the object of the preposition, the adverbial is altered to a great degree. For example, sequences such as

> We ran for a doctor. She is working for her degree.

are not adverbials of purpose, but complements of the verb; <u>run for and work for</u> form transitive verbs taking as objects <u>doctor</u> and <u>degree</u> (section 1.12). Two contrasting sentences will show the difference here:

> What are you working for? (why?) What are you working for? (for what object?)

10.5 The preposition for which appears in <u>PUR</u> should also be kept distinct from the <u>be + for + NOM</u> sequence:¹

Subways are for sleeping. In the same way, it should not be confused with <u>T-for-to</u>:²

> He waited. John came.--> He waited for John to come.

Also, the other preposition appearing in <u>PUR</u>, on, is sometimes confused with that appearing in <u>MAN</u>:

> He refused on purpose. He refused on impulse.

The first sentence, containing <u>PUR</u>, answers to the question why whereas <u>MAN</u>, in the second sentence, answers to <u>how</u>,

¹Thomas, p. 114. ²Roberts, p. 401. but the similarity of the two structures can sometimes cause confusion.

APPENDIX

| No. | Preposition | L | D1 | T | Du | M | F | S | P | SA |
|-----|--------------------|---|----|---|----|---|---|---|---|----|
| 1. | aboard | x | x | | | | | | | |
| 2. | about | x | х | | | | | | | |
| 3. | above | X | х | X | | | | | | |
| 4. | according to | | | | | X | | | | |
| 5. | across | X | х | | X | | | | | |
| 6. | across from | X | | | | | | X | | |
| 7. | after | X | - | x | | X | | | | |
| 8. | against | X | x | X | | x | | | | |
| 9. | along | x | x | | X | X | | | | |
| 10. | alongside | X | x | | | | | | | |
| 11. | alongside of | x | | | | | | | | |
| 12. | amid | x | х | | | | | | | |
| 13. | among | x | x | | | | | | | |
| 14. | apart from | x | | | | | | X | | |
| 15. | around | x | x | | | | | | | |
| 16. | 8.5 | | | | | X | | | | |
| 17. | as far (close) as | x | х | | | | | | | |
| 18. | as late (early) as | | | X | X | | | | | |

LEXICON OF ENGLISH PREPOSITIONS

Adverbial Key: L-Location Di-Direction T-Time Du-Duration M-Manner F-Frequency S-Source P-Purpose SA-Sentence Adverbial

| No. | Preposition | L | D1 | T | Du | M | F | S | P | 8 |
|-----|------------------|---|----|---------------|----|---|---|----------------------------|-----------------------------------------------------------------------------------------------------------------|---|
| 19. | aslant | X | X | | | | | | | |
| 20. | astraddle | x | X | | | | | | | |
| 21. | astride | x | X | | | | | u – Addree (dawn yn ywyse) | | |
| 22. | at | x | | x | | x | X | | | |
| 23. | athwart | x | Х | | | | | | | |
| 24. | atop | x | X | | | 1 | | | | |
| 25. | away from | x | | | | | | X | | |
| 26. | back of | x | х | | | | | | | |
| 27. | before | x | X | X | | | | uit Methios 5,49,4 ,4 | | |
| 28. | behind | x | Х | en de súdans | | x | | **** | na á thu na sta na s | |
| 29. | below | x | Х | | | | | | nte di sandi alta fanta | |
| 30. | beneath | x | X | | | | | | | |
| 31. | beside | x | , | | | | | | | |
| 32. | between | X | X | X | | | | | | |
| 33. | beyond | X | X | | x | x | | | | |
| 34. | ру | X | х | x | | x | | | materi di mang la pa | |
| 35. | by means (way of | | | inter niji on | | x | | | ettidirə və də sətərə kişaşıdı | |
| 36. | down | x | x | | x | | | | | |
| 37. | down from | x | | | | | | x | **** | |
| 38. | despite | | | h- 4 | | x | | | | |
| 39. | diagonal | x | X | | | | | 1110-1111-1110 | | |
| 40. | during | | | X | x | | | | - <u>19</u> - 19 - 19 - 19 - 19 - 19 - 19 - 19 - | |
| 41. | for | | х | | x | х | | | X | |
| 42. | from | | | | x | X | | X | | |

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| No. | Preposition | L | D1 | T | Du | M | F | S | P | SA |
|-----|--------------|---|----|---|----|---|---|----|---|-------------------------|
| 43. | in | x | | X | | X | | | | |
| 44. | in spite of | | | | | X | | | | |
| 45. | inside of | x | | X | | | | | | |
| 46. | into | | X | | x | | | | | |
| 47. | like | | | | | X | | | | |
| 48. | near | x | x | X | | | | С. | | |
| 49. | of | | | X | | | | x | | х |
| 50. | off | X | x | | | X | | | | |
| 51. | on | X | | X | r | x | x | | x | |
| 52. | onto | | x | | | | | | | |
| 53. | opposite | X | x | | | | | | | |
| 54. | out | х | | | | , | | x | | |
| 55. | out of | X | | | | X | | X | | |
| 56. | outside (of) | X | | | | | | x | | |
| 57. | over | x | x | | | | | | | |
| 58. | over to | | x | | | | | | | |
| 59. | past | X | x | x | | | | | | |
| 60. | per | | | | | X | | | | |
| 61. | round | X | x | | x | | | | | |
| 62. | since | | | | x | | | | | |
| 63. | through | X | x | | x | x | | | | |
| 64. | throughout | X | x | | x | | | | | |
| 65. | till | | | x | x | | | | | |
| 66. | to | | x | X | | | | | | ululyd y ely, yyar ynaù |

| Preposition | L | D1 | T | Du | M | F | S | P | SA |
|--------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| toward(s) | | X | х | | | | | | |
| under(neath) | X | x | | | X | | | | |
| unlike | , | | | | X | | | | |
| until | | | X | Х | | | | | |
| up | X | x | | | | | | | |
| up from | X | | | | | | X | | |
| up to | | x | | X | | | | | |
| upon | X | | X | | | | | | |
| via | | | | | X | | | | |
| with | X | | X | | X | | | | |
| within | X | | X | | X | | | | |
| without | x | | | | X | | | | |
| | toward(s) under(neath) unlike until up up from up from up to upon via with within | toward(s)Xunder(neath)XunlikeIuntilXupXup fromXup toXuponXviaXwithXwithinX | toward(s)Xunder(neath)XunlikeIuntilIupXupXup fromXup toXuponXviaIwithXuI | toward(s)XXunder(neath)XXunlikeIIuntilIXupXXupXXup fromXXup toXXuponXXviaIIwithXXXXX | toward(s)XXXunder(neath)XXXIunlikeIIXXuntilXXXXupXXXIup fromXXIIup toXXXXuponXXXIviaIIIIwithXXX | toward(s)XXXunder(neath)XXXXunlikeIIXXXuntilIXXXIupXXIIIup fromXXIIIup toXXIIIup toXXIIIup toXXIXIup toXXXXIup toXXXXXup t | toward(s) X X X X X under(neath) X X X X X unlike I I X X I until I X X I I up X X I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I | toward(s)XXXIIunder(neath)XXXXXIunlikeIIXXXIuntilIXXXIIupXXIIIIupXXIIIIup fromXIIIIIup toXXIIIIuponXIIIIIviaXIIIIIwithXIXXII | toward(s) X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X |

EXAMPLE SENTENCES OF PREPOSITIONS IN THE LEXICON

| 1. | The men sat aboard the plane. |
|--------|-----------------------------------------------------|
| | The men climbed aboard the plane. |
| 2. | Henry stayed about the house on Tuesday. |
| | Henry walked about the house. |
| 3. | The sign was above the window. |
| - | The plane flew above the clouds. |
| | It must be above two o'clock. |
| 4. | Sherman did the job according to directions. |
| 5. | The town lies across the bridge. |
| | Alice ran across the bridge. |
| | The tradition dates across the years. |
| 6. | The store is across from my house. |
| | He ran across from the building. |
| 7. | The boy had to stand in line after two other men. |
| | We will leave after lunch. |
| | He answered the questions after a fashion. |
| 8. | The boys leaned against the fence. |
| | He pushed the chair against the door. |
| | It is only a minute against the bell. |
| | She did it against my wishes. |
| 9. | Many trees are planted along the road. |
| - | We bicycled along the lane. |
| | This theory has been discussed along the centuries. |
| • • | We talked along these same lines. |
| 10. | Many people stood alongside the ship as it docked. |
| | We hurried alongside the steamer. |
| 11. | Flowers grew alongside of the road. |
| 12. | Flowers grew amid the weeds. |
| | She ran amid the displays looking for the book. |
| 13. | She stood among the ancient ruins. |
| | Boys ran among the crowd selling papers. |
| 14. | This work stands apart from the others. |
| | Dopothy drew apart from the crowd. |
| 15. | The store is just around the corner. |
| | The train sped around the corner. |
| 16. | He talked to the youth as a friend. |
| 17. | We were as close as anyone else. |
| | Herman ran as far as the post. |
| 18. | It is as late as six o'clock, I am sure. |
| | He often stays as late as seven. |
| 19. | She lay aslant the hammock. |
| | Vines grew aslant the roof. |
| 20. | He sat astraddle the horse. |
| | George jumped astraddle the fence. |
| 21. | The boy sat astride the pony. |
| | The cowboy swung astride the horse. |

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22. Mary is surely at the store. He said he would arrive at six o'clock. I saw at a glance what she was making. They come at times. 23. He stood athwart our path. His plans ran athwart the teacher's wishes. 24. The sign stood atop the roof. The cat climbed atop the tree. 25. The men were all away from camp. The boy ran away from home. We stood back of the others. 26. The actors hurried back of the stage. 27. He stood before the audience. He hurried before the audience. 28. The tree grew behind the well. Harry rushed behind his desk. They are working behind time. We sat below deck talking. 29. The sailors jumped below deck. The dog sat beneath the porch. 30. People were strolling beneath the stars. Jim sat beside the dog. 31. 32. I sat between the two girls. We drove between the towns. It must have been between four and five o'clock. His home is beyond the mountains. 33. She swam beyond the marker. We will stay beyond supper. She convinced him beyond a doubt. 34. The boy stood by his friend. We passed by Denton after noon. We will arrive by five o'clock. He won by working hard. 35. 36. They raised the piano by means of a hoist. The woman lives five miles down the road. He tirelessly hurried down the road. They toiled without ceasing down the hours. 37. The boy is down from the roof now. He climbed down from the roof on a ladder. The man finished his job despite difficulties. 38. 39. The store was located diagonal the post office. The team ran diagonal the field. 40. George died during the storm. Mary shopped during her lunch hour. 41. The countryside stretching for miles is beautiful. It has not rained for many years. The child had suffered for lack of food. I was late for a good reason. 42. The village dates from 1600. The building crumbled from age. He hurried from the building.

| 43. | They served coffee in the library. He will arrive in ten minutes. |
|---------|-------------------------------------------------------------------------------|
| 44. | He certainly dresses in style. They continued in spite of difficulties. |
| 45. | We stayed inside (of) the fence. |
| - | He left inside (of) an hour. |
| 46. | Harry walked into the office. |
| | They worked into the evening. |
| 47. | The boy fought like a professional. |
| 48. | We lived near the lake. |
| | Joe hurried near the town. |
| | It was near midnight when they left. |
| 49. | We started at a quarter of four. |
| | The boy comes of a good family. |
| | Of course, she will leave early. |
| 50. | We deliberately stayed off the subject. |
| | The man jumped off the bridge. |
| | The statement was made off the record. |
| 51. | We formerly lived on Elm Street. |
| | He will arrive on the hour. |
| | She stayed behind on a hunch. |
| | On occasion he is late. |
| -4.44 | She stayed behind on purpose. |
| 52. | Henry jumped onto the train. |
| 53. | The station is opposite the bank. |
| ية من | He ran opposite the fieldhouse. |
| 54. | Richard leaned out the window. |
| م بر | He ran out the door. |
| 55. | We stayed out of the drafty corner. |
| | He came out of curiosity. |
| e 6 | We hurried out of the room. We were outside (of) the building at the time. |
| 56. | |
| 673 | The boy hurried outside (of) the room. A sign was placed over the door. |
| 57. | The cow jumped over the moon. |
| 58. | The passengers crowded over to the side of the ship. |
| 59. | He was past the gate. |
| 27. | He ran past the gate. |
| | I am sure it was past noon. |
| 60. | Jim did the work per instructions. |
| 61. | The horse was already round the third lap. |
| ¥*• | The boy hurried round the corner. |
| | They worked round the clock. |
| 62. | He has been working since eight o'clock. |
| 63. | We were soon through customs. |
| • • • • | We drove through the city. |
| | We worked through the night. |
| | We left early through a mistake. |
| 64. | Police were stationed throughout the building. |
| | Sarah walked throughout the city. |
| | We stayed throughout the evening. |
| | |

- 65. He left at ten minutes till one.
- They waited till noon.
- 66. Herman walked to class. She left at fifteen minutes to four.
- 67. He hurried toward(s) the store. It must be well toward(s) noon.
- 68. We sat under(neath) the umbrella. He fell under(neath) the bridge. She acted under(neath) the influence of her mother.
- 69. He looked unlike an ill person.
- 70. We arrived at a quarter until noon. Jane worked until closing time.
- 71. We were fishing up the creek. They sailed up the river.
- 72. The man is up from the ranks. He ran up from the cellar.
- 73. The boys ran up to the attic. We worked up to an hour in the office.
- 74. The men worked upon a platform. We left upon the hour.
- 75. We arrived via Stockholm. 76. George wanted to stay with
- 76. George wanted to stay with the others. With the break of day we began working. She did the job with enthusiasm.
- 77. We lived within the city.
 Within an hour they will arrive.
 We can do the work within certain limits.
- 78. They stood without the door. He finished the work without a qualm.

GLOSSARY

Glossary A: Dependent Forms (Section 1.10) a-, ante-, anti-, by-, circum-, cis-, co-, contra-, counter-, de-, dis-, em-, en-, epi-, ex-, extra-, for-, fore-, hyper-, hypo-, il-, im-, in-, infra-, inter-, intra-, intro-, ir-, meta-, mid-, para-, peri-, post-, pre-, preter-, pro-, sub-, super-, sur-, syn-, thorough-, through-, trans-, ultra-, with- . . .

Glossary B: Archaic Prepositions (Section 1.11) abaft, adown, aloft, amidst, amongst, anent, bating, betwixt, ere, forth, unto, withal

Glossary C: Non-shiftable Particles (Section 1.14) about (ask, forget, know, mind); against (fight, hold, offend); at (catch, clutch, fire, get, grasp, guess, play, point, strike, wonder); for (allow, arrange, ask, beg, care, fear, hope, lack, prepare, provide, search, seek, stand, think, try, want, wish); from (depart, dismiss, escape, flee, refrain); in (believe, indulge, share); into (enter, examine, investigate, penetrate); of (approve, boast, hear, know, make, partake, repent, taste, treat); on, upon (attend, begin, call, decide, enter, improve, jar, operate, ponder, prevail, play, remark, resolve, seize, spy, touch, wait); over (ponder, tyrannize, watch); to (admit, answer, attain, attend, confess, lecture, listen, pretend, see, stick, trust, witness); with (bear, consult, fight, finish, marry, meet, visit) . . .

Glossary D: Shiftable Particles (Section 1.14) bring down, in, out, up; drop in; hand down, in, out, round; help along, out; hold down, in, off, over; pass by, off, over; put across, down, off, on; shake off; show around, off, up; slice up; stamp out; tear up, down; throw down, in, up . . .

Glossary E: Participials (Section 1.17) according to, barring, bating, concerning, considering, excepting, excluding, in keeping with, including, notwithstanding, pending, regarding, respecting, saving, touching . . .

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