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Chapter 1
Introduction

1.1

#### WHY STUDY WORDS?

Imagine a life without words! Trappist monks opt for it. But most of us would not give up words for anything. Every day we utter thousands and thousands of words. Communicating our joys, fears, opinions, fantasies, wishes, requests, demands, feelings—and the occasional threat or insult—is a very Important aspect of being human. The air is always thick with our verbal emissions. There are so many things we want to tell the world. Some of them are important. some of them are not. But we talk anyway—even when we know that what we are saying is totally unimportant. We love chitchat and find silent encounters awkward. or even oppressive. A life without words would be a horrendous privation.

It is a cliché to say that words and language are probably humankind's most valuable single possession. It is language that sets us apart from our biologically close relatives, the great primates. (I would imagine that many a chimp or gorilla would give an arm and a leg for a few words—but we will probably never know because they cannot tell us.) Yet, surprisingly, most of us take words (and more generally language) for granted. We cannot discuss words with anything like the competence with which we can discuss fashions films or football.

We should not take words for granted. They are too important. This book is intended to make explicit some of the things that we know subconsciously about words It is a linguistic introduction to the nature and structure of English words. It addresses the question 'what sorts of things do people need to know about English words in order to use them in speech?' It is intended to increase the degree of sophistication with which you think about words. It is designed to give you a theoretical grasp of English word-formation. the sources of English vocabulary and the way in which we store and retrieve words from the mind.

T hope a desirable side effect of working through Evtglish Words will be the enrichment of your vocabulary. This book will help to increase, in a very practical way, your awareness of the relationship between words. You will be equipped with the tools you need to work out the meanings of unfamiliar words and to see in a new light the underlying structural patterns in many familiar words which you have not previously stopped to think about analytically.

For the student of language. words are a very rewarding object of study. An understanding of the nature of words provides us with a key that opens the door to an understanding of important aspects of the nature of language in general. Words give us a panoramic view of the entire field of linguistics because they impinge on every aspect of language structure. This book stresses the ramifications of the fact

that words are complex and multi-faceted entities whose structure and use interacts with the other modules of the grammar

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such as PHONOLOGY, the study of how sounds are used to represent in speech. SYNTAX, the study Of sentence structure, and

SEMANTICS, the study of meaning in language.

In order to use even a very simple word. such as frog. we need to access various types of information from the word-store which we all around with us in the MENTAL LEXICON or DICTIONARY that is tucked away in the mind. We need to know:

# [1.1]

- (i) its shape, i.e. its PHONOLOGICAL REPRESENTATIONVfrg/ which enables us to pronounce it. and its ORTHOGRAPHIC REPRESENTATION frog, if we are literate and know how to spell it (see the Key 10 symbols used on page xix);
- (ii) its grammatical properties, e.g. it is a noun and it is Countable—so you can have one frog and twofrogs;
- (iii) (iii) its meaning,

But words tend not to wear their meaning on their Sleeve. Normally, there is nothing about the form of words that would enable anyone to work out their meaning, Thus, the fact that frog refers to one of these simply has to be listed in the lexicon and committed to memory by brute force. For the relationship between a LINGUISTIC SIGN like this word and its meaning is ARBITRARY other languages use different words to refer to this small tailless amphibian. In French it is called grenoïille. In Malay they call it katak and in Swahili chum. None of these words is more suited than the others to the job of referring 10 this small reptile.

And of course. within a particular language. any panicular pronunciation can be associated with any meaning. So long as speakers accept that sound-meaning association, they have a kosher word, For instance. convenience originally meant 'suitability' or 'commodiousness' but in the middle of the nineteenth century a new meaning of 'toilet' was assigned to it and people began to talk of 'a public convenience'. In the early 1960s the word acquired the additional new meaning of 'easy to use, designed for hassle-free use'

as in convenience food.

We are the masters. Words are our servants. We can make them mean whatever we want them to mean. Humpty Dumpty had all this worked out. The only thing missing from his analysis is the social dimension. Any arbitrary meaning assigned to a word needs to be accepted by the speech community which uses the language. Obviously' language would not be much use as a means of communication if each individual language user assigned a private meaning to each word which other users of the language did not recognize. Apart from that, it is instructive to listen in on the lesson on the nature of language that Humpty Dumpty gave to Alice (see overleaf).

Let us now consider one farther example. All competent speakers of English know that you can add -s to a noun to indicate that it refers to more than one entity- So, you say eat when referring to one and cats if there is more than one. If you encountered in the blank in [1.2a] an unfamiliar word like split (which have just made up). you would automatically know from the context that it must have the plural form splets in this position since it is specified as plural by all. Further, you would know that the plural Offset must be splits (rather than spletren by analogy to children or spleri by analogy to stimuli). You know that the majority of nouns form their plural by adding the regular plural suffix or ending -s. You always add -s unless express instructions are given to do otherwise. There is no need to memorise separately the plural form of most nouns- All we need is to know the rule that says 'add -s for plural". So, without any hesitation, you suffix -s to obtain the plural form splits in [1.2b]:

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# [1.2]

- a. We put all the big-on the table.
- b. We put all the big *splets* on the table.

The study of word-formation and word-structure is called MORPHOLOGY. Morphological theory provides a general theory of word-structure in all the languages of the world. Its task is to characterise the kinds of things that speakers need to know about the structure of the words of their language in order to be able to use them to produce and to understand speech.

We will see that in order to use language, speakers need to have two types of morphological knowledge. First, they need to able to analyse existing words (e.g' they must be able to tell that frogs contains frog plus -s for plural). Usually, if we know the meanings of the elements that a word contains. it is possible to determine the meaning of the entire word once we have worked out how the various elements relate to each other. For instance, if we examine a word like nutcracker we find that it is made up of two words, namely the noun nuf and the noun cracker. Furthermore, we see that the latter word, cracker is divisible into the verb crack and another meaningful element -er (roughly meaning 'an Instrument used to do which, however, is not a word in its own right- Numerous other words are formed using this pattern—of combining words (and smaller meaningful elements) as seen in [1.31:

[1.3]
[tealNoun—lstrain-erl] Noun
[lawnlNoun—lmow-erllNoun
[canlNoun—lopen-erlINoun

Given the frame [[\_\_\_\_]Noun\_\_ [\_\_\_er]] Noun, we can fill in different words With the appropriate properties and get another compound word (i.e. a word containing at least two words). Try this frame out yourself. Find two more similar examples of compound words formed using this pattern.

Second. Speakers need to be able to work out the meanings of

novel words constructed using the word building elements and standard word-construction rules of the language. Probably we all know and use more words than are listed in dictionaries. We can construct and analyse the Structure and meaning of old words as well as new ones. So, although many words must be listed in the dictionary and memorised, listing every word in the dictionary is not necessary. If a word is formed following general principles, it may be more efficient to reconstitute it from its constituent elements as the need arises rather than permanently commit it to memory. When people make up new words using existing words and word forming elements, we understand them with ease—providing we know what the elements they use to form those words mean and providing the word-forming rules that they employ are familiar. This ability is one of the things explored in morphological investigations.

In an average week, we are likely to encounter a couple of unfamiliar words. We might reach for a dictionary and look them up. Someofthem may be listed but others might be too new or too ephemeral to have found their way into any dictionary. In such an event, we rely on our morphological knowledge to tease out their meanings. If you heard someone describe their partner as 'a great list maker and a ticker-off, you would instantly know what sort of person the partner was—although you almost certainly have never encountered the word ticker-effbefore. And it is certainly not listed in any dictionary. The -er ending here has

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The following chapter continues the discussion or the role of the lexicon, It attempts to answer questions like 'what is the lexicon for?" 'What items need to be listed in the dictionary?' 'What is the difference between idioms (like to nail one 's colours to the mast) and syntactic phrases (like to nail a notice to the door)?' The next two chapters highlight the fact that the English word-store is vast and infinitely expandable, First, in Chapter 9 we consider the ways in

which, using the internal resources of the language. speakers are able to produce an indefinitely large number of words, In Chapter 10 attention shifts to the expansion of English vocabulary through the importation of countless words from other languages. The story of imported words is in many ways also the story of the contacts that speakers of English have had with speakers of other languages over the centuries.

Most of the space in this book is devoted to an examination or the structure or English words, But the analysis of word-structure is seen not as an end in itself. but rather as a means to an end. And that end is to understand what it means to know a word. What sorts of information about words do you need to have in order to use them in communication? so the final chapter is devoted to the MENTAL LEXICON, It addresses the question. Show is it that people are able to store a vast number of words in the mind and to retrieve the right one so fast in communication?' We will

see that words are not piled in a muddle in the mind. Rather, the mental lexicon is very highly organised. This concluding chapter will also pull together the various strands developed in the earlier chapters,

I have already stressed the point that morphology is not a selfcontained module of language. Any discussion of word-formation touches on other areas of linguistics, notably phonology and syntax, so I have provided a key to the list of pronunciation symbols at the beginning of the book. I have also included at the end a glossary of linguistic terms (many of them from other branches of linguistics) which might be unfamiliar, But still I may have missed out some terms, If you encounter any unfamiliar technical terms that are not explained in this book. I suggest that you consult a good dictionary of linguistics like Crystal (1991 Sometimes it is useful to present data using phonetic notation. A key to the phonetic symbols used is to be found on pp. xix—xx.

After this introductory chapter, all chapters contain exercises, Several of the analytical exercises require you to 100k up words and parts of words in a good dictionary like the oxford English Dictionary. Access to such a dictionary is essential when you study this book, This is a practical way of learning about the Structure of English words (and may also be a useful way of enriching your vocabulary).

Chapter 2
What is a word?
2.1
INTRODUCTION

Often we find it very difficult to give a Clear and systematic account of everyday things. ideas. actions and events that surround us. We just take them for granted. We rarely need to state in an accurate and articulate manner What they are really like, For instances we all know What a game is, Yet. as the philosopher Wittgenstein showed. we find it very difficult to state explicitly what the simple word game means.

The same is true of the term word, We use words all the time, We intuitively know what the words in our language are. Nevertheless most of us would be hard pushed to explain to anyone what kind of object a word is, If a couple Of Martian explorers (with a rudimentary understanding Of English) came Off their space-ship and stopped you in the street to enquire What earthlings meant by the term WORD What would you tell them? I suspect you might be somewhat vague and evasive, Although you know very well what words you might find it difficult to express explicitly and succinctly What it is that you know about them.

The purpose of this chapter is to try to find an answer to the question: What is a word? It is not only Martian explorers curious about the way earthlings live who might want to know what words

are. We too have an interest in understanding words because they play such an important role in our lives, as we saw in the last chapter. it is impossible to imagine human society without language. And equally, it is impossible to imagine a human language that has no words of any kind, It is

impossible to understand the nature of language without gaining some understanding of the nature of words. so, in this chapter we Will Clarify What we mean when we use the term 'word'. This clarification is essential if our investigations are to make any headway for as you Will see presently, we mean quite a few very different things When we talk of words.

A standard definition of the word is found in a paper written in 1926 by the American linguist Leonard Bloomfield, one of the greatest linguists of the twentieth century. According to Bloomfield. 'a minimum free form is a word'. By this he meant that the word is the smallest meaningful linguistic unit that can be used on its It is a form that cannot be divided into any smaller units that can be used independently to convey meaning. For example child is a word. We cannot divide it up into smaller units that can convey meaning when they stand alone,

Contrast this with the word childish which can be analysed into child. and -ish. While the child bit of childish is meaningful when used on its own (and hence is a word), the same is not true of Although according to the oxford English Dictionary (OED) -isla means something like 'having the (objectionable) qualities of (as in mannish, womanish, devilish, sheepish, apish etc.), there is no way we can use it on its

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the meaning of 'someone who does whatever the verb means' - Given the verb tickoff, a ticker-off must be a person Who ricks off. Similarly, if you know What established words like handful. cupful and spoonful mean, you are also able to figure out the meanings of novel words like fountail-penful (as in a fountain-penful of ink) or hovercraftful (as in hovercraftful after hovercraftful of English shoppers returned from Calais loaded down with cigarettes. cheese and plonk). Virtually any noun denoting a container can have -ful added to it in order to indicate that it is 'full of something'.

To take another example. a number of words ending in -ist. many of which have come into use in recent years, refer to people who discriminate against, or hold negative views about. certain less powerful subgroups in society e.g. racis t, sexist. Anyone Who knows What racist and Sexist mean, given the right context should have no difficulty in understanding the nature of discrimination perpetrated by people who are described using the novel words ageist sizist and speechist, Ageism is discrimination on grounds of (Old) age —for instance. denying employment to people over the age of 60: sizism is discrimination (usually against fat people) on grounds of size and speechism is discrimination against people With speech impediments like stuttering.

Did you notice how I exploited your tacii knowledge of the fact that words ending in -ist and -ism complement each other? You were glad to accept ageism. sizism and speechism because you know that corresponding to an adjective ending in -ist there will normally be a noun ending in -ism, This is important, It shows that you know that certain word-forming bits go together—and others do not. I suspect that you

would reject putative words like \*agement, \*sizement and \*speechmenf- (An asterisk is used conventionally to indicate that a form is disallowed.) In word formation it is not a case of anything goes.

A challenging question which morphology addresses is. 'how do speakers know which non-occurring or non-established words are permissible and which ones are not?' Why are the words fountainpeful. hovercraftful and speechisr allowed while \*agement,

## \*speechment and \*sizement are not?

Morphological theory provides a general theory of wordformation applicable to any language but as mentioned earlier this book focuses on word-formation in English. Its objective is to provide a description of English words designed to make explicit the various things speakers know, albeit in an unconscious manner, about English words, The emphasis Will be on the description Of English words rather than the elaboration of morphological theory, So, data and facts about English words—are brought to the fore and the theoretical and methodological issues are kept in the background for the most part. The use of formal notation has also been kept to a minimum in order to keep the account simple.

# 1.2 OVERVIEW OF COMING CHAPTERS

At the very outset we need to establish the nature of the subject we are going to be examining- So, Chapter 2 discusses the nature of words, Then the next three chapters delve deep inside words and investigate their internal structure. In the process, traditional morphological concepts of structural linguistics are introduced and extensively exemplified.

Morphology is not a stand-alone module- After the introductory chapters, in Chapter 6 you are introduced to a theory where morphology is an integral part of the LEXICON or DICTIONARY. This chapter focuses on the interaction of phonology and morphology in word-formation.

Chapter 7 explores the relationship between words in speech and in writing. What is the relationship between saying words and writing them down? Is writing simply a mirror of speech—and an apparently distorting one in the case of English?

'Aerobat
'Kingfisher
'patriarchate
a' nnoying
de' molish
Chau'cerian
Ca' hoots
Gaber' dine
Hullaba' loo

Main stress can fall on only one syllable in a word. The location of main stress is part of the make-up of a word and is not changed capriciously by individual speakers. You cannot decide to stress hullabaloo on the penultimate syllable on a Monday (hulla'ba/oo), on the antepenultimate syllable a Tuesday (hu Vlahaloo), on the initial syllable on a Wednesday ('hw/labaloo) and on the final syllable for the rest of the week (hullabaloo).

However, in some cases, if we Wish to contrast two related words, we can shift stress front its normal position to a new position. This can be seen in 'vendor and ven' dee which normally are stressed on the first and second syllable respectively. But if the speaker wants to contrast these two words both words might be stressed on the final syllable as I heard an estate agent do in a radio interview.

[2.6]

It is ven' dor, not the ven'dee who pays that tax.

This example illustrates well the point that a word is allowed just one stress. Stress can be shifted from one syllable to another, but a word cannot have two main stresses. We could not have \*'ven'dor and \*'ven dee where the two syllables received equal stress. Stress has to do with relative prominence. The syllable that receives main Stress is somewhat more prominent than the rest. some of which may be unstressed or weakly stressed. By contrast, function words

are normally unstressed, We can say Nelly went to town with no stress on to unless we wish to highlight to for contrastive purposes, e.g. *Nelly wen' to town and not far away from town*).

It is easy to see how stress can function as a valuable clue in determining whether two content words are a single compound word or two separate words. The nouns Street and lamp are both stressed when they occur in isolation. But if they appear in the compound 'sireet-lamp, only the first is stressed. The stress on lamp is suppressed.

Stress is not the only phonological clue. In addition to stress, there are mles regulating the positions in which various sounds may occur in a word and the combinations of sounds that are permissible. These rules are called PHONOTACTIC RULES. They can help us to know whether we are at the beginning, in the middle or at the end of a word. A phonological word must satisfy the requirements for words of the spoken language. For instance, while any vowel can begin a word, and most consonants can appear alone at the beginning of a word. the consonant [] is subject to certain restrictions, (This consonant is spelled ng as in long (seethe Key to symbols used on p. xix). In English words [] is not allowed to occur initially although it can occur in other positions. Thus, [] is allowed internally and at the end of a word as in [1 1] longnrg and [1 ge] longer. But you could not have an English word like ngether, \*[ ee] With [ ] as its first sound. However, in other languages this sound may be found word-initially as in the Chinese name Nga [a] and the Zimbabwean name Nkomo [ komo].

There are also phonotactic restrictions on the combination of consonants in various positions in a word in the spoken language.

As everyone knows, English spelling is not always a perfect mirror of pronunciation. so When considering words in the spoken language it is important to separate spelling from pronunciation (cf. Chapter 7). You know that He is

knock-kneed is pronounced /hl Il 11k ni:d/ and not \*/he Is knk kni:d/. A particular combination of letters can be associated with very different pronunciations in different words or

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b.O! that we now had here
But ten thousand of those men in England
That do not WOd'k to-day.
(Henry V, IV, iii)

Hyphenating *to-day* and *to-morrow* is less common now. probably because most speakers are unaware of the compound nature of these words. <u>Today</u> comes from old English *t da* 't0+day' and *tomorrow* is from Middle English *ro ntor(e)*we (i.e. to (the) morrow) —to- can be traced back ultimately to a fom that meant 'this' in Indo European. Note in pttssing that three major periods are distinguished

European. Note in pttssing that three major periods are distinguished in the history of the English language: Old English (conventionally abbreviated as OE) was spoken c.450—1 100: Middle English (conventionally abbreviated as ME) was spoken c. 1100—1500 and Modern English from 1500 to the present,

Generally, the use of the hyphen in such words that are no longer seen as compounds is in decline. The hyphen tends to be mostly used in compounds that are regarded as fairly new words. Many well-established words that are transparently compounded. e.g. schoolboy. are normally written without a hyphen. of course, judgements as to what is an established word vary greatly. There are few firm rules here. For instancef in the OED both seauuy and sea-way are shown to be accepted ways of writing the word pronounced as I si:weV. Similarly. the compilers of the OED show variation in the way they enter both hyphenatedfir.wrare and first rate written as two words separated by a space.

Interestingly, hyphenation is also used creatively to indicate that

an idea that would normally be expressed by a phrase is being treated as a single word for communicative purposes because it has crystallised in the writer's mind into a firm. single concept. Thus, for example, the expression simple ro serve is normally a phrase, just like easy to control. But it can also be used as a hyphenated word as in simple-to-serve recipe dishes (M&S Magazine 1992:9), Similarly, on page 48 of the same magazine, the writer of an advertising feature uses the phrase fresh from the farm' as a hyphenated word in 'fresh-fromthe-farm eggs'. But for creative hyphenation you are unlikely to find anything more striking than this:

# [2.3]

On Pitcairn theae is little evidence of the what-we-havewehold, no-surrender. the Queen' *s-picture-in-every-room* son of attitude. Simon Winchester in The Guardian magazine: 12 June 1993: 27; (italics added to highlight the compounds)

What we have established is that as a orthographic words have a space on either side of them, B ut there are eases where this simple rule of thumb is not followed. There is a degree of flexibility in the way in which words are written down: being. or not being. separated by a space is in itself not a sure sign of word status. Some orthographic words which are uncontroversially written as one unit contain two words within them. They are compound words like firstrare. seaway. wheelbarrow and teapot. Furthermore, there are forms like they 're, hadn and I 'm which are joined together ili writing yet which are not compound words. When you scratch the skin, you see immediately that they're, hadn and I'm are really versions of the pairs of words they are, had not and I am. Our theory needs to say something about awkward customers like these. Since the issues they raise are complex, we will postpone discussion of them until sections (4.3) and (8,3). Finally, there are words which are

compounded (and maybe hyphenated as in [2.3]) as a one-off to crystallise a particular meaning.

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own. If some shouted to you in the street, "Hey, are you -ish?' you might smile bemusedly and think to yourself. 'Isn't he weird?' In the next chapter we will take up the question of what to do with pieces of words that cannot be used meaningfully on their But for the moment we Will focus exclusively on words.

# 2.2 WORDS ARE LIKE LIQUORICE ALLSORTS

When we talk of words we do not always mean exactly the same thing, Like liquorice allsorts. Words come in all sorts of varieties. We will Stan our discussions by distinguishing the different senses in which we use the term 'word'.

# 2.2.1 Word-forms

Let us use the term WORD-FORM to describe the physical form which realises or represents a word in speech or writing. Consider the words in the following extract from T.SEiot's poem:

# [2.1]

Half-past one.

The street-lamp sputtered,

The street-lamp muttered.

The street-lamp, 'Regard that woman

Who hesitates towards you in the light of the door

Which opens on her like a grin...

('Rhapsody on a windy night' in Eliot 1963)

In Written EnglislU words are easy to recognise,, They are preceded by a space and followed by a space.

Using this criterion, we can say that there are thirty-one words (i.e. word-forms) in the extract from 'Rhapsody', We Will call word-forms like these which we find in writing ORTHOGRAPHIC WORDS. If you 100k again at the extract, you might wonder if some of the hyphenated orthographic words are 'really' individual words, Many people would hyphenate half-past as Eliot does but not street-lamp, They would write street lamp as two separate words, with a space between them. What would you do?

The use of hyphens to indicate that something is a complex word containing more than one word-like unit is variable. largely depending on how transparent the compound nature of a word is. Shakespeare wrote *today as to-day* and *tomorrow as to-morrow*:

[2.2]

a. To-morrow, Caesar.

I Shall be to inform you rightly...

(Antony and Cleopatra. L iv)

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So far we have only considered orthographic words, i.e. recognisable physical written word-forms. Obviously, words as physical objects exist not only in writing, but also in speech. We will now briefly turn to word-forms in spoken language We will refer to them as PHONOLOGICAL WORDS

The challenge of word recognition anses in an even more obvious way when we consider speech, Words are not separated distinctly from each other. We do not leave a pause between words that could be equated to a space in writing, (If we did that, conversation would be pmnfully slow! Just try speaking to one of your friends today

leaving a two-second gap between words. See how they react-j In normal speech words came out in a torrent- They overlap, Just as droplets of water cannot be seen flowing down a river, individual words do not stand out discretely in the flow of conversation. So they are much harder to isolate than words in writing. None the less, we are able to isolate them. If you heard an utterance like:

## [2.4]

The cat slept in your bed.

/ekæt slept In: bed/

(Note: ``' shows that the following syllable is stressed; phonemic transcription is written between slant lines.)

you would be able to reeognise the six phonological words that have been written in PHONEMIC TRANSCRIPTION (which shows the PHONEMES, i.e. the sounds that are used to distinguish the meanings of words) although what you hear is one continuous stream of sound. For purely practical reasons, throughout the book, unless otherwise stated, phonemic transcriptions and references to pronunciation will be based on RECEIVED PRONUNCIATION (RP), the prestige accent of standard British English—the variety popularly known as the Queen's English or BBC English.

An intriguing question that linguists and psychologists have tried to answer is: how do people recognise words in speech? We will address this question in detail in section (1 1.2.1) below. For now let us simply assume that phonological words can be identified, Our present task will Simply be to outline some of their key properties. To do this it will be useful to distinguish between two types of words; the so-called CONTENT WORDS and FUNCTION WORDS. Content words are the nouns, verbs, adjectives and adverbs which contain most of the REFERENTIAL (or COGNITIVE MEANING) of a sentence. This roughly means that they name individuals and predicate of them certain properties.

They tell us, for instance. what happened or who did what to whom. and in what circumstances. An example will make the point clean In the old days, when people sent telegrams, it was content words that were mainly (or exclusively) used. A proud parent could send a message like Bahy girl arrived yesterday which contained two nouns, a verb and an adverb, Obviously, this is not a well-formed, grammatical sentence- But its meaning would be clear enough.

Function words are the rest—prepositions, pronouns, conjunctions, articles and so on. They have a predominantly grammatical role, A telegram containing only the words She iT andfor us would convey little idea of what the intended interpretation This is not to say that function words are superfluous. Without them sentences are usually ungrammatical. A sentence like \*Nelly went town which lacks the preposition to is not permitted. We have to say Nelly went to town.

In English, content words have this property, one of their syllables is more prominent than the rest because it receives MAIN STRESS. This is seen in the words below where the syllable with main stress is preceded by ```:

[2.5]
Initial stress
Medial srress
Final slress

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in different positions in the same word. The spelling kn is pronounced tkn/ at the end of a word. as in / belknL but at the beginning of a word as in knee and knock the 1k/ is dropped and only the n is sounded. Similarly. other stop-plus-nasal combinations like rm 'tm/ and dn /dn/ are allowed at the end of a word (e.g. bottom /btrn/ and burden 'b :dn/) but these consonant clusters are nog permitted at the beginning of a word. Putative words like \*/tmls/(\*tmiss) and \*/dnel(\*dnell) are just impermissible

In the spoken language we recognise English words only those forms that have the right combination of sounds for the position 111 the word where they occur.

Moreover, even when a sound or combination of sounds is allowed. often a somewhat different pronunciation is used depending on the position in which it occurs in a word. This can be seen in the pronunciation of the I sound in standard British English (RP) in different positions in a word. Compare the initial with the final / in the following:

# [2.7]

Word-initial clear
/[]
labour lead loft
lend Ict lick leaf
Word-final dark
/[]
spill smell fulfil
cool bull sprawl
Pre-consonantal dark
/[]
milk salt belt quilt
spoilt colt Wild

The / sound is always made with the blade of the tongue against the teeth-ridges with the sides lowered to allow air to escape, But there is a subtle difference. When I is in word-final position or when it is followed by another consonant (as it is in the last two columns). besides the articulatory gestures mentioned above. the back of the tongue is also simultaneously raised towards the soft palate (or velum). This type of / is called dark or velarised / (). But when I is at the beginning of a word, no velarisation takes place, This latter type of t is called clear or non-velarised / ([]). Thus, the kind of I we hear

gives an indication of where in a word it appears.

Do not fail to note the use of square brackets. They are used to enclose ALLOPHONES, i.e. variants of a phoneme, Allophones are different sounds. e.g. [] and []. that occur in different contexts which all represent the same phoneme /1/.

With regard to spelling too. the situation is not chaotic. although admittedly the relationship between letters and phonemes is not always straightforward. as knee being pronounced /ni:/ demonstrates. We recognise as English words only those orthographic words that conform to the spelling conventions of English. If. for example, you saw the word zvroglen you would treat it as a foreign word. The letter

combination is not English. There is no way a word in English could stan with those letters.

Let me summarise. One sense in which we use the term 'word' is to refer to WORD-FORMS. If we are thinking of the written language, our word-forms are ORTHOGRAPHIC words These are easily recognised. They normally have a space before and after them. By contrast, in normal spoken language our word-forms are PHONOLOGICAL words. These are more difficult to identify because they are not discrete entities that can be neatly picked off one by one. None the less. phonological words can be identified on the basis of their phonological characteristics such as stress and phonotactic properties.

#### 22.2

Words as vocabulary items

We need to distinguish between words in the sense of word-form as opposed to words as vocabulary items. Let us revisit the examples in [2.2,1] on pp. 1 1-12. If we are considering wordforms. we can see that the

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hyphenated word-form street-lamp occurs three times,, So if we were counting different word-forms we would count srreer-lamp three times, However, if we were counting distinct words, in the sense of distinct VOCABULARY ITEMS we would only count it once.

The distinction between word-forms and vocabulary items is important. Very often, when we talk about words what we have in mind is not word-forms. but something more abstract—what we will refer to here as LEXEMES vocabulary items), Anyone compiling a dictionary lists words in this sense, So, although the word-forms in each of the columns in [2.8] below are different. we do not find each one of them given a separate entry in an English dictionary. The first word in each column is listed under a heading of its own. The rest may be mentioned under that if they do not follow a regular pattern of the language—e.g. write, written (past participle), wrote (past tense), But if they do follow the general pattern (e.g. washes, washing. washed: smile, smiling, smiled) they will be left out of the altogether. Instead. the grammar will be expected to provide a general statement to the effect that verbs take an -ing suffix, which marks progressive aspect, and an -ed suffix that marks both the past tense and the past participle, and so on.

[2.8]

WASH

wash

washes

washing

washed

washed

#### TAKE

take

takes

taking

took

taken

#### **BRING**

bring

brings

bringing

brought

brought

#### **WRITE**

write

writes

writing

wrote

written

In [28] each lexeme (i.e. vocabulary item) that would be entered in dictionary is shown in capital letters and all the different word-forms belonging to it are shown in lower-case letters,

The examples in [2.8] are all verbs. But, of course. lexemes can be nouns. adjectives or adverbs as well. In [2.9] you will find examples from these other word classes,

Noun

**MATCH** 

matches

matches

**GOOSE** 

goose

geese

Adjective

**KIND** 

kind

kinder

**BAD** 

bad

worse

Adverb

**SOON** 

soon

sooner

WELL

well

bertter

In [2.9] we have three pairs of lexemes: the nouns, march and goose: the adjectives kind and bad: and adverbs soon and well. In each case the word-forms belonging to each lexeme in 12.9a] follow a general pattern for words of their type and need not be listed in the dictionary, But all the ones in 12,9b] are irregular and must be listed in the dictionary.

The lexeme is an abstract entity that is found in the dictionary and

that has a certain meaning. Wordforms are the concrete objects that we put down on paper (orthographic words) or utter (phonological words) when we use language, The relationship between a lexeme and the word-forms belonging to it is one

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[2.10]

of REALISATION Or REPRESENTATION or MANIFESTATION. If We take the lexeme write which is entered in the dictionary, for example, we can see that it may be realised by any one of the word-forms write, writes, writing, wrote and wriTlen which belong to it' These are the actual forms that are used in speech or appear on paper. When you see the orthographic words written and wrote on the page. you know that although they are spelt differently they are manifestations of the same vocabulary item WRITE.

The distinction between word-forms and lexemes which I have just made is not abstruse It is a distinction that we are intuitively aware of from an early age. It is the distinction on which word-play in puns and in intentional ambiguity in everyday life depends. At a certain period in our childhood we were fascinated by words. We loved jokes—even awful ones like [2.10]

The humour, Of course, lies in recogmsing that the word-formshrimp can belong to two separate lexemes whose very different and unrelated meanings are none the less pertinent here. It can mean either 'an edible, long, slender crustacean' or 'a tiny person' (in colloquial English). Also, the word serve has two possible interpretations. It can mean 'to wait upon a person at table' or 'to dish up food'. Thus, word-play exploits the lexical ambiguity arising from the fact that the same word-form represents two distinct lexemes with very distinct meanings.

In real-life communication. where potential ambiguity occurs we generally manage to come to just one interpretation without too

much difficulty by selecting the most appropriate and RELEVANT interpretation in the situation- Suppose a 20- stone heavyweight boxer went to Joe's Vegetarian Restaurant and asked the waiter for a nice shrimp curry and the waiter said in reply. We don't serve shrimps', it would be obvious that it was shrimps in the sense of crustaceans that was intended. If, on the other hand, a little man. barely 5 feet tall and weighing a mere 7 stone, Went to a fish restaurant and saw almost everyone at the tables around him tucking into a plateful of succulent shrimps, and thought that he would quite fancy some himself, he would be rightly offended if the waiter said 'We do not serve shrimps.' It is obvious in this situation that shrimps are on the menu and are dished up for consumption. What not done is serve up food to people deemed to be puny.

Puns are not restricted to jokes. Mány advertisements like that for Standens rely on puns for their effectGiven the context. it is obvious that sound is meant to be read in more than one sense here.

Serious literature also uses this device. For instance. the First World War poet Siegfried Sassoon gives the title 'Base details' to the poem in which he parodies cowardly generals who stay away at the base, at a safe distance from the action, and gladly speed young soldiers to their death at the front. The word form base in the title represents two distinct lexemes here whose meanings are both relevant: (i) Base details are details of what is happening at the base (Noun) (meaning 'military encampment'), and (ii) Base derails are particulars of something that is base (Adjective) (meaning 'reprehensibly cowardly, mean etc.')

The term HOMONYM is used to denote word-forms belonging to distinct lexemes that are written and pronounced in the same way. There are separate dictionary entries for such words. Shrimp and base are examples of homonyms. But perhaps they are not so obvious. Better examples of homonyms are shown in [2.11].

## [2.11]

- a. bat: bat  $_{(Noun)}$  'a small flying mammal' bat  $_{(Noun)}$  'a wooden implement for hitting a ball in cricket'
- b. bat: bar (Noun) 'the profession of barrister' bar (Noun) 'a vertical line across a stave used to mark metrical accent in music' bar (Verb) 'to Obstruct' 14 WHATISAWORD?

c. fair: fair (Adjective) 'beautiful, attractive' Fair (Noun) 'holidav''

By contrast, word-forms may have the same pronunciation but different spellings and meanings. Such forms are called HOMOPHONES. See this example from a joke book:

## [2.12]

Why does the pony cough? Because he's a little hoarse. (Young and Young 1981:57)

The joke is a pun on /h:s/, the pronunciation of the two lexemes represented in writing by horse and hoarse. Other examples of homophones include *tail sail* ~ *sale*, *Weather whether, see* ~ *Sea. read* ~ *reed reel* ~ *real*, ~ *scene, need knead*.

Conversely, it is also possible to have several closely related meanings that are realised by the same wordform. The name for this is POLYSEMY. Often you find several senses listed under a single heading in a dictionary. For instance, under the entry for the nounforce, the *OED* lists over ten senses. I have reproduced the first six below:

- 1. Physical strength. Rarely in pl. (= Fr. *forces*—1818.)
- 2. Strength, impetus, Violence, or intensity of effect ME.
- 3. Power or might: esp. military power ME. b. ln early use, the strength (of a defensive work etc.). Subseqr., the fighting strength of a ship. 1577. 4. A body of armed men. an army. In pl. the troops or soldiers composing the lighting strength of a kingdom or a commander ME b. A body of police: onen absol. *the force*=policemen collectively. 1851.
- 5. Physical strength or power exerted on an object: esp. violence or physical coercion. ME.
- 6. Mental or moral strength. Now only. power of effective action. or of overcoming resistance. ME.

The line that separates polysemy from homonymy is somewhat blurred because it is not altogether clear how far meanings need to diverge before we should treat words representing them as belonging to distinct lexemes. In [2.13], it is not entirely clear that the sixth sense of the nounforce is not sufficiently removed from the other meanings to merit an entry of its own. The other meanings all show a reasonably

strong family resemblance. But mental or moral strength shows a somewhat weaker relationship.

In the OED, there is a separate entry for the lexeme *force*. the verb. It is considered a different lexeme because it has a different meaning and belongs to a different word class, being a verb and not a noun. Belonging to different word-classes is an important consideration in determining whether separate dictionary entries are needed.

In real-life communication, the lack of a one-to-one match between lexemes and word-forms does not necessarily cause ambiguity. In context, the relevant meaning is normally easy to determine. But there are cases where it is not. For instance, the homonymy of bar in [2.14] can cause semantic confusion:

# [2.14]

I saw a bar under the tree.

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It could be a bat with which you play cricket or a small. flying mammal, This is a case of LEXICAL AMBIGUITY. We have in this sentence a word-form that represents more than one lexeme with a meaning that is quate plausible. It is not possible to determine the right interpretation of the sentence without looking at the wider context in which it appears,

We have established that the relationship between a word-form and the meaning that it represents is a complex one, This is exploited not only literature and word play as we saw above but also in the language of advertising. For instance, a recent British Gas newspaper advertisement for gas heating said:

# [2.15]

You will warm to our credit, It's free,

This advertisement exploits the lexical ambiguity that is due to the fact that warm Ito) can mean 'become enthusiastic' or 'experience a rise in temperature'. Next time you look at an adverüsement, see whether it exploits any of the relationships between lexemes and word-forms that we have examined.

#### 22.3

#### **Grammatical words**

Finally. let us consider the word from a grammatical perspective. Words play a key role in syntax, So. some of their properties are assigned taking into account syntactic factors. Often words are required to have certain properties if they serve certain syntactic purposes, Thus. although in [2, 16a] we have the same sense of the same lexeme (*play*) realised by the same word-form (*played*). we know that this word does at least two quite different grammatical jobs in the sentence of which it is a part:

[2.16]

- a. She played the flute
  She has played the flute.
- b. She took the flute.
  She has taken the flute.

If you compare the sentences in [2.16] above, you will see that in [2.16a] the verb play is realised by the word-form plaved regardless of whether it simply indicates that the action happened in the past as in the first example or that an action was (recently) completed as in the second example. Contrast this with the situation in [2.16b] where these two grammaueal meanings are signalled by two different forms, Took indicates that the action happened in the past while taken (after has/had) indicates that the action is complete, In She played theflute and She took theflute the words played and look are described

grammaticall y as the 'past tense forms of the verbs play and , By contrast. in She has played flute and She has gaken theflute we describe p/oved and taken as the 'past participle' of play and take.

Linguists use the term SYNCRETISM to describe situations such as that exemplified by played where the same word-form of a lexeme is used to realise two (or more) distinct grammatical words that are represented separately in the grammatical representations of words belonging to some other comparable lexemes, The phenomenon of syncretism is one good reason for distinguishing between word

forms and grammatical words. It enables us to show that words belonging to the same lexeme and having the same form in speech and writing can still differ, A further example should make the ideas of grammatical words and syncretism even clearer, Consider the verbs in the following sentences:

# 18 WHAT ISA WORD? EXERCISES

1. Comment on the problems you encounter in determining the number of words in the following nursery rhyme. Relate your answer to the different senses in which the term 'word' is used.

The grand old Duke of York
He had ten thousand men,
He marched them up to the top of the hill.
Then he marched them down again.
When they were up, they were up,
And when they were down, they were down,
And When they were only half way up
They were neither up nor down.

- 2. Find and analyse at least three examples of advertisements that exploit the homonyrpy. polysemy or homophony of words.
- 3. Which ones of the italicised word-forms in the following sentences belong to the same lexeme? What difficulties if any, have you come across in determining whether word-forms belong to the same lexeme'?
- a. She Stov him savv through that plank of wood.
- b. Bill Will pay the bill,
- c. I saw Farmer near your farm again this morning.
- d. Jan looked pale when she walked towards the pail.
- e. I am sick of your claiming to be sick all the time.

- f. I was looking at the book when she booked the ticket.
- 4. Using at least two fresh examples. Show how syncretism can be used to support the distinction between word-forms and grammatical words.
- 5. This is the beginning of W.H.Auden's poem 'Musée des Beaux Arts'.

About suffering they were never wrong. The Old Masters...

These lines can be paraphrased as 'The Old Masters were never wrong about suffering.'

Referring to the definition of the word given in this chapter. Explain why it is correct to regard *suffering as a word but incorrect* to treat suffering also as a word.

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Evidently, the position of words in a sentence is not rigidly fixed. They can, and often do. get moved around if the communicative needs of the speaker or Writer require it. Howe.ver, the interior of a word is a no-go area for syntactic rules. They are strictly barred from manipulating elements found inside a word. As far as syntax is concerned, words are indivisible units that cannot be split and whose internal units are inaccessible (cf. Bauer 1988. Matthews 1991. Lyons 1968, Di Sciullo and Williams 1987).

The word as a grammatical unit shows stability (or INTERNAL COHESION). The order of elements inside a word is rigidly fixed. If the elements of a sentence are shifted, certain meaningful units (in this ease *re-visit-ed* and *forfun-afe-ly*) all move en bloc, and their order always remains unchanged. The internal structure of the word cannot be tampered with. We are not allowed to perform operations that

would yield words like \*ed-visit-re, \*ate-fortune-Iy etc. We will

return to this point on p. 33 below.

The definition of the word includes the term 'minimal' for a good reason. This is intended to separate words from phrases like this old industrialist. Like words. phrases can occur in isolation and they can be moved from one position to another (as we have seen in [2.19]). But the expression this old industrialist is not a minimal form since it contains smaller forms Capable of occurring independently namely, this, old and industrialialist. Furthermore, the sequence this old industrialist does not have the kind of internal cohesion found in words. It can be interrupted by other words e.g. this wealthy old industrialist: this very wealthy, old, benevolent industrialist. it encounters difficulties when confronted by a COMPOUND WORD like wheelbarrow which contains the words wheel and barrow which can stand alone. In such cases it is clear that the word is not the smallest meaningful unit that can be used on its own. It is for this reason that the definition of the word as the unit on which purely syntactic operations can be performed is preferable. In the case Of compounds this definition works. The interior of a compound is a syntactic no-go area, Syntactic rules are -not allowed to apply separately to words that make up a compound. Thus, for example although the nouns wheel and barrow can be modified by the adjective big ([big barrow], [big wheel]), and although we can talk of [big wheelbarrow], in which case big modifies the entire compound, there is no possibility of saying wheel [big barmw], With the adjective only modifying the second element of the compound word

#### 2.3

#### **SUMMARY**

In this chapter we have established that normally, the term 'word' is used ambiguously. To avoid the ambiguity, we need to distinguish between three different types of word: (i) a word-form (i.e. a

particular physical manifestation of one more lexemes in speech or Writing); (ii) a vocabulary item (i.e. lexeme); and (iii) a unit of grammatical structure that has certain morphological and syntactic properties.

We will revisit the distinction between lexemes, grammatical words and word forms mainly in Chapters 7 and 11. In Chapter 7 our main concern will be the realisation of words in speech and in writing. In Chapter 11 We will show that this distinction is not an artefact of the linguist's analysis. Rather; it is a distinction that is well supported by studies in the way in which we store words in the mind and retrieve them for use in communication in real life.

In the coming chapters. in cases where the relevant sense of the term 'word' is clear from the context I will not spell out whether it is the word as a vocabulmy item, grammatical word, phonological or orthographic form that is being dealt with- But where it is not clear, I will indicate the sense in which I am using this term. We are now in a position to consider in detail the internal structure of words. That is the task of the next chapter.

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[3.2] childish hopeless sooner mended elephants re-boil unsafe ex-wife

You would have to give a different answer. You would need to tell your interrogator; who by now would be getting increasingly bewildered. that the words in [3.2] can be divided into smaller units of meaning as shown in [3.3]:

[3.3] child-ish hope-*less soon-er* mend-ed elephant-*s re*-boil *un-safe ex*-wife

The part of the Word that is not italicised can function as an

independent word in the grammar-lildeed, each of the nonitalicised chunks is a word (i.e. vocabulary item) that is listed as such in the dictionary. By contrast, the italicised bits, though meaningful (and their meanings can be indicated as shown in [3.4]), cannot function on their own in the grammar.

## [3.4]

```
-ish 'having the (objectionable) qualities of'
-less 'without X'
-er 'more X'
-ed 'past'
-s 'plural'
re 'again'
un 'not X'
ex 'former'
chil-ish= 'having the qualities of a child'
hopeless='without hope'
sooner= 'more soon'
mended='mend in the past'
elephants= 'more than one elephant'
re-boil= 'boil again'
unsagfc= 'not safe'
ex-wife= 'former wife'
```

What we have done to the words in [3.4] can be done to thousands of other words in English. They can be decomposed into smaller units of meaning (e.g. re-'again') or grammatical function (e.g. -ed 'past'),

The term MORPHEME is used to refer to the smallest unit that has meaning or serves a grammatical function in a language.

Morphemes are the atoms with which words are built. It is not possible to find submorphemic units that are

themselves meaningful or have a grammatical function. given -less

or un-, it would make no sense to try to assign some identifiable meaning to any part of these forms. Of course, it is possible to isolate the individual sounds /l-I-s/ or / -n/, but those sounds in themselves do not mean anything.

We have now established that words are made up of morphemes. But how do we recognise a morpheme when we see one? Our definition of the morpheme as the smallest unit of meaning (or grammatical function) will be the guiding punciple. Any chunk of a word with a particular meaning will be said to represent a morpheme. That is how we proceeded in [3.3] and [3.4] above.

Morphemes tend to have a fairly stable meaning which they bring to any word in which they appear. If we take re- and un-, for example, they mean 'again' and' not' respectively—not just in the words we have listed above, but also m thousands of other words. Usually morphemes are used again and again to form different words. Thus re- meaning 're-do whatever the verb means' can be attached before most verbs to yield a new word with a predictable meaning (ecu re-run, re-take, re-build etc.). In like manner, unmeaning 'not (where X stands for whatever the adjective means) can be attached to various adjectives (e.g. un-real, un-clean, an-happy etc.) to yield a new word with a predictable negative meaning,

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[2.17]

You hit hit me (=you hit me some time in the past) or (=you hit Ine habitually)

You cut it.

```
(=you cut it some time in the past) or (=you cut it habitually)
```

As the paraphrases show. the word-form hir belonging to the lexeme hir can represent either the present tense or the past tense form of the verb. In other there is syncretism, We have two different grammatical words hit [+verb, +present] and hit [+verb, past] but a single word-form. The same analysis also applies to cut. It can represent either the present or past tense of the verb cut.

Syncretism is not limited to verbs. It can apply to other word classes (e.g. noun') as well:

[2-18]

- (a) The wolf killed a Sheep and one deer.
- (b) The wolf killed two Sheep and three deer.

In these two sentences, although the word-form sheep belongs to the same lexeme and is unchanged in form, we know that its grammatical value is not the same In [2.18a] it realises the word with the grammatical properties of noun and singular, but in [2.18b] it represents a plural form, Likewise, the same word-form deer represents a singular noun in [2.18a] Sal and a plural noun in [2.18b].

What can we say about the word as an entity that functions as a grammatical unit in the syntax of a language? As mentioned already, the (grammatical) word is normally defined as the MINIMAL FREE FORM that is used in the grammar of a language- Let us now put some flesh on this terse and somewhat cryptic statement.

By free form we mean an entity that can stand on its own and act as a free agent; it is an element whose position in a sentence is not totally dictated by other items, In order to explain what 'freedom' means in this context, we need to take on board two ancillary ideas: POSITIONAL MOBILITY and STABILITYAlthough words are not the smallest grammatical units used to construct sentences (see the discussion of morphemes in the next chapter)f at the level of sentence organisation the rules of sentence formation treat words as unanalysable units. Often it is possible to change the order in which words appear in a sentence and still produce a well-formed sentence, Words enjoy considerable positional mobility, however, the elements inside a word do not enjoy such mobility. While syntactic rules can transport words to new places in a sentence, they cannot shift in the same way elements that are found inside words. Moving words around in the following produces grammatical sentences with basically the same meaning but with somewhat different emphasis:

## [2-19]

- a. This Old industrialist revisited Lancaster, fortunately,
- b. Fortunately, this old industrialist revisited Lancaster,
- c. Lancasterf this old industrialist revisiteds fortunately,
- d. Fortunately. Lancaster was revisited by this Old industrialist.

#### Chapter 3

Close encounters of a morphemic kind

#### 3.1

#### THE QUEST FOR VERBAL ATOMS

We saw in the last chapter that the word is the smallest meaningful unit of language that can function independently in the grammar, a word can be used on its own,

without appending it to some other unit. Thus, in the word childish we can isolate chi/d and use it on its own because it is a word in its own right, But we cannot use - ish as a stand-alone unit, For-*ish* is not a word.

While recognising that words are the smallest meaningful units

which function independently in the gyammar. we also need to recognise that words can be decomposed into smaller umts that are also meaningful, Our task in this chapter is to explore the internal structure of words in order to gain some understanding of the basic units which are used to form words.

## 3.2 CLOSE MORPHOLOGICAL ENCOUNTERS: ZOOMING IN ON MORPHEMES

Originally 'morphology' meant the study of biological forms. But nineteenth-century students of language borrowed the term and applied it to the study of word-structure. In linguistics MORPHOLOGY is the study of the formation and internal organisation of words,

Let us begin our morphological analysis by considering half a dozen words (not altogether randomly chosen):

# [3.1] hope soon mend boil safe leaf word elephant

Obviously all the words in [3.1] have a meaning, but lack internal structure, We cannot identify any smaller units that are themselves meaningful which occur inside them, If a Martian stopped you a street near the local zoo and enquired what phant in elephant or ho in hope means. you would think she was asking a most bizarre question that did not merit an answer Or you might condescendingly explain that, of course in each case the whole word means something, but its pans cannot be said to mean anything on their own, Though somewhat puzzled, the Martian might accept your explanation,

But, being the persistent type. Let us suppose she enquired further whether the words in [3.2] were also indivisible into smaller meaningful units:

The segmentation of words into morphemes is not a trivial and arcane pastime indulged in by linguists to while away the time on a wet Bank Holiday afternoon. It is something that is important for all users of language. During your lifetime, you will probably encounter hundreds of thousands of different words. Many of these words will he knew to you. For no matter how extensive your vocabulary is, you will inevitably come across words that are unfamiliar. It is impossible for anyone to know all the words that are found in English.

So, what do you do when faced with an unfamiliar word? Reach for a good dictionary? Perhaps. But this is not always feasible. Nor IS it always necessary, Very often you just figure out what the strange word means using the context. together

with your knowledge of the meaning of the morphemes which the word contains. You normally do this subconsciously. What we are doing here is making explicit your tacit knowledge of word-structure

Imagine this scenario. In 1992, a newspaper report on the war in the Bosnian republic states that what we are witnessing is the Lebanonisarion of Bosnia. Suppose you have not encountered the word Lebanonisation before. Would you understand what the writer is saying? Probably you would—without looking it up in any dictionary. How would you do it? The answer is simple. By using your knowledge of the world—in particular history (Balkanisation'—and your knowledge of current affairs (the civil war in Lebanon) plus your knowledge of the principles of word formation you are able to work out the meaning of Lebanonisation •

Let us focus on principles of word-formation. You know that -ize/-ise is used when talking about nations to mean 'to make X', e.g. from America we get Americanise. from Korea we get

Koreanise, from Kenya we get Kenyanise etc. By attaching -fanbise we turn a noun into a verb. So, given the noun Lebanon we can form the verb Lebanonise. Next, from the verb Lebanonise, we Can create a new noun by adding -ation (which forms nouns of action).

If you know that various warlords created warring fieldoms that destroyed the Lebanese state during the civil war that raged in Lebanon in the 1970s and 1980s, you will know that the Croats. Muslims and Serbs engaged in the Bosnian conflict risk doing the same to the Bosnian state in the 1990s. libanonisation is the act of 'turning a country into another Lebanon' Thus, our knowledge of word-structure contributes to our understanding of the meaning of unfamiliar words.

We have demonstrated that words can be decomposed into morphemes. Now we are going to see that words have INTERNAL STRUCTURE. A simple Way of showing this is to analyse words like uncanny and unhappy. From these words we can derive uncannier and unhappier. If you analyse unhappier, you will see that extracting the correct meaning 'more [not happy]' (i.e. sadder) rather than the incorrect one 'not (more happy]' (i.e. not happier) depends on the way we group together the morphemes. In the first analysis where unhappier is interpreted as sadder, the meaning 'not' conveyed by un- is bracketed together With happy [unhappy] as one unit and this is intensified by the -er suffix, In the alternative analysis, happy and er are bracketed together as a unit (happier] (i.e. more happy) which then is negated by tun-I to give 'not more happy'. which is incorrect. When someone is unhappier, it does not mean they are simply less happy. it means rather that they are not happy at all. They are sad. This shows that morphemes in a Word With several morphemes may be grouped together in different ways for semantic purposes, The way in which this is done has semantic consequences. Conceivably, morphemes could be thrown together higgledypiggledy to form a word. So long as you had the right morphemes. a well-formed word would pop out. But that is definitely not the case. Words have internal structural groupings, as We have seen.

Furthermore, the sequencing of morphemes in a word may he subject to restrictions. Take a word like ungovernability which contains four morphemes. namely *un-. govern. abil- ity*. Everyone who knows this

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word knows that these four motvhemes must appear in the order in 13,5al, Any other order is strictly forbidden:

## [3.5]

- a. an-govern-abil-ily
- b. \*govern-abil•uli-ity
- c. \*ity-un.abil-govern
- d. \*abil-un-ity-govern
- e. \*un-govern-ity-ahil etc.

Clearly, knowing a word means not just knowing the morphemes it contains, but also the rigid order in which they are allowed to appear. We will return to this point in section (44).

To sum up the discussion so far, words are built using morphemes. If we know how morphemes are used to form words, we do not need to be unduly flustered when we come across a strange word, Usually it is possible to work out the meaning of a strange word if it contains familiar morphemes.

## 3.3 MORPHEMES AND THEIR DISGUISES

The identification of morphemes is not altogether straightforward. This is because there is no simple one-to. one correspondence between morphemes and the speech sounds that represent them. In this section we will attempt to unravel the complexities of the

relationship between morphemes and the actual forms (sounds of groups of sounds) by which they are manifested in speech,

33.1

Allomorphs: morph families

Any physical form that represents a morpheme is called a MORPH. The forms -ism -less. -er. .ed. -s. re-. un- and ex- in [3.4] on p. 31 are all morphs. Morphological analysis begins with the identification of morphs, i.e. forms that carry some meaning or are associated with some grammatical function, In asparagus there is just one morph but in all the words in 13,41 there are two.

It is important not to confuse morphs with SYLLABLES, When we talk of morphs we have in mind sounds that can be related to a particular meaning or grammatical function (e.g. plural or past tense). However, when we talk of syllables all we have in mind are chunks into which words can be divided for the purposes of pronunciation,

This is not an abstruse distinction. We are not being pedantic. It is a distinction that matters to ordinary people because human languages are organised in such a way that the construction of units that are meaningful is normally in pnnciple separate from the construction of strings that are pronounceable. Thus, for rhythmical effect. nursery rhymes often use nonsense syllables like 'Deedle. deedle' in 'Deedle deedle dumpling my son John' which do not represent anything meaningful,

Alternatively, a sound representing a morpheme may not be a syllable in its own right. e.g. by itself, the s which represents the plural morpheme is not a syllable, — The word eats has two morphemes. eat and -s. but it is all just one syllable. The single syllable cats realises two morphemes. The converse situation, where

several syllables realise a single morpherne. is equally possible. Thus, the trisyllabic and quadrisyllabic word-forms elephant and asparagus both realise just a single morpheme.

The nature of the relationship between sounds and morphemes is intriguing, At first sight, it might look reasonable to assume that morphemes are made up of PHONEMES, We might be tempted to think that eat, the English morpheme with the meaning is made up of the phonemes /kæt,/. But we have several kinds of evidence showing that this is not the case,

First, if morphemes were made up of phonemes, a given morpheme would be uniquely associated with a given phonological representation, In reality, the same morpheme can be realised by different morphs (i.e. sounds or written forms). Morphs which realise the same morpheme are referred to as ALLOMORPHS of that morpheme,

The INDEFINITE ARTICLE is a good example a morpheme with more than one allomorph, It is realised by the two forms a and an. The sound at the beginning of the following word determines the allomorph that is selected. If the word following the indefinite article begins with a consonant. the allomorph a is selected, but if it begins with a vowel the allomorph an is used instead:

[3.6]

```
a.
a dictionary
a boat
a pineapple
a leg
a big (mat)
a dull (song)
b.
```

an island an evening an opinion an eye an Old (mat) an exciting (finish)

Hence the incorrectness of the sentence marked with an asterisk in [3.7]

[3.7]

I spent an evening with them.

\*I spent a evening with them.

I spent *the* evening with them.

Allomorphs of the same morpheme are said to be in COMPLEMENTARY DISTRIBUTION, This means that they do not occur in identical contexts and therefore they cannot be used to distinguish meanings. In other words, it is impossible to have two otherwise identical utterances that differ in their meanings depending on the allomorph of a morpheme that is selected. So, because a and an both realise the same indefinite article morpheme, it is impossible to have two sentences like those in [3,7a] above which are identical in all ways, except in the choice of a or an, but mean different things.

Complementary distribution presupposes the more basic notion of DISTRIB UTION. Distribution is to do with establishing facts about the occurrence of allomorphs of a particular morpheme. It is concerned with establishing the contexts in which the morpheme which we are investigating occurs and the allomorphs by which it is realised in those different contexts. In other words, by distribution we mean the total set of distinct linguistic contexts in which a given form appears, perhaps in different guises. For instance, the indefinite article has the distribution: a before consonants leg, a

tree) and an before vowels (e.g. an eagle),

As mentioned already, such functionally related forms which all represent the same morpheme in different environments are called allomorphs of that morpheme. Another way of putting it is

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that allomorphs are forms that are phonologically distinguishable which, none the less, are not functionally distinct. In other words, although they are physically distinct morphs with different pronunciations, allomorphs do share the same function in the language.

An analogy might help to clarify this point. Let us compare allomorphs to Workers who share the same job. Imagine a jobshare situation where Mrs Jones teaches maths

to form 2DY on Monday afternoons, MY Kato on Thursday mornings and Ms Smith on Tuesdays and Fridays. Obviously. these teachers are different individuals. But they all share the role of 'maths teacher' for the class and each teacher only performs that role on particular days. Likewise, all allomorphs share the same function but One allomorph cannot occupy a position that is already occupied by another allomorph of the same morpheme. To summarise, we say

that allomorphs of a morpheme are in complementary distribution. This means that they cannot substitute for each other. Hence, we cannot replace one allomorph of a morpheme by another allomorph of that morpheme and change meaning.

For our next example of allomorphs we will turn to the plural morpheme- The idea of 'more than one' is expressed by the plural morpheme using a variety of allomorphs including the following: Singular

rad-ius

cactus

dat-um

strat-um

analys-is

ax-is

skirt

road

road

branch

Plural

radi-i

cact-i

dat-a

strat-a

analys-es

ax-es

skirt-s

road-s

branch-es

Going by the orthography, we can identify the allomorphs-*i*, -*a*, -*es* and -S. The last is by farthe Commonest: see section (7.3).

Try and say the batch of words in [3-8d] aloud. You will observe that the pronunciation of the plural allomorph in these words is variable. It is [s] in skirts, [z] in roads and [lz] (or for some speakers [ez]) in branches. What is interesting about these words is that the selection of the allomorph that represents the plural is determined by the last sound in the noun to which the plural morpheme is

appended. We will return to this in more depth in section (5.2)-

We have already seen. that because allomorphs cannot substitute for each other. we never have two sentences with different meanings which solely differ in that one sentence has allomorph X in a slot where another sentence has allomorph Y. Compare the two sentences in [3.9]:

[3.9]

They have two cats [cl have tu: keaet-s] \*[el have tu: kaet-z]

They have two dogs [el luev tu: dg-z] \*[el have tu: dg-s]

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We cannot find two otherwise identical sentences which differ in meaning simply because the word cats is pronounced as [kæt-s] and \*[kæt-z] respectively, Likewise, it is not possible to have two otherwise identical sentences with different meanings where the word dogs is pronounced as I[dgz] and \*[dgs]. In other words, the difference between the allomorphs [s] and [z] of the plural morpheme cannot be used to distinguish meanings.

# 3.32 Contrast

Different morphemes CONTRAST meanings hut different allomorphs do not. If a difference in meaning is attributable to the fact that one minimal meaningful unit has been replaced by another. we identify the morphs involved as manifestations of distinct

morphemes, so, in [3.7] p. 36 the indefinite article realised by a or an is a distinct morpheme from the definite article realised by 'he since a semantic difference is detectable when a or an is replaced with the. A further example of contrast is given in [3.10]:

[3.10] I unlocked the door. I re-locked the door She is untidy.

The two sentences in [3.10a] mean very different things. Since they are identical except for the fact that where one has the other has re-. the difference in meaning between these two sentences is due to the difference in meaning between the morphemes realised by re-(meaning 'do again') and un- (meaning 'reverse the action').

Now, contrast the un- of unlocked with the tm- of untidy. lil both cases we have the same morph un(which is spelt and pronounced in exactly the same way). But it is obvious that represents different morphemes in these two word-forms. In I unlocked the door the morph un- found in unlocked realises a reversive morpheme which is attached to verbs—it reverses the action of locking. But in untidy it realises a negative morpheme attached to adjectives— untidy means •not tidy'. (If a person is untidy it does not mean that at some earlier point they were tidy and someone has reversed or undone their tidiness.)

If morphemes were made up of phonemes a simple colTelation of morphs with morphemes is what we would find. But. in fact. it is quite common for the same phonological form (i.e. morph) to represent more than one morpheme. It is from the context that we can tell which morpheme it represents. This is the second piece of evidence against the assumption that morphemes are composed of phonemes.

The complex relationship between morphemes and the allomorphs

that represent them gives us a window through which we can glimpse one of the most fascinating aspects of language: the relationship between FORM and FUNCTION. Iti linguistics we explore the form of various elements of language Structure, e.g. words and sentences, because it is important to know how they are constructed. However, form is not everything. We are also interested in knowing what linguistic elements are used for what function they serve.

Just consider for a moment this non-linguistic analogy. Imagine a friend returns from a foreign vacation with two beautiful omamental glass containers with a globular shape and gives one to you as a present and keeps the other for herself. She does not tell you what your present is used for. She uses hers as a vessel for containing wine at the table—she got the idea of buying these containers when she was served wine in a similar container in a fancy restaurant. You do not know this. You look at your present and decide to put it on the

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Table as a container for cut fresh she calls hers a flagons for that is what she is using it as. You call yours a vase.

Here are the questions now: are these objects 'flagons' or? Which one of you is right? I am not being evasive if I say that both of you are right. For, although the two objects are identical as far as their form. Their physical properties. Is concerned, they are very different with regard to the functions that they serve in your two households, There are numerous linguistic parallels. What is physically the same linguistic form can be used to represent distinct morphemes. In order for forms to be regarded as allomorphs belonging to the same it is not sufficient for them to have the same form to be pronounced or written in the same way. 'They must also have the same

grammatical or semantic function, The significance of this point was hinted at in the discussion of in unlocked and when we showed that the same morph can represent different morphemes, It should become even more obvious when you consider the form -er the following:

## [3.11]

think ~ thinker
write ~ writer
sweep ~ cooker
receive ~ receiver
propel ~ propeller
London ~ Londoner
Iceland ~ Icelander
New York ~ New Yorker

drive ~ driver sing ~ singer sell ~ seller strain ~ strainer compute ~ computer erase ~ eraser north ~ northerner east ~ easterner Highlands ~ Highlander

The same form, -er, represents three different meanings and hence has to be assigned to three distinct morphemes In I l al it forms an agentive noun from a verb. with the meaning 'someone who does X' (i,e, whatever the verb means). In [3,1 lb] the same -er forms an instrumental noun from a verb. with the meaning 'something used to X' (i.e. to do whatever the verb means). Finally. in [3.11C] the same -er form is attached to a noun referring to a place to mean "an

inhabitant of

Clearly. the same form does serve different functions here. So. it realises different morphemes. This is further evidence that should quickly disabuse us of the assumption that morphemes are made up of morphs. Not only can a single morpheme have several allomorphs gas in the ease of the plural morpheme). the same morph (e.g. -er) can represent different morphemes. There is no simple one-to-one matching of morphemes with morphs.

3.4

#### FREEDOM AND BONDAGE

When we classify morphemes in terms of where they are allowed to appear, we find that they fall into two major groupings, some morphemes are capable of occurring on their own as words. While other morphemes are only allowed to occur in combination with some other morpheme(s) but they cannot be used by themselves as independent words.

#### **ENGLISH WORDS 27**

Those morphemes that are allowed to occur on their own in sentences as words are called FREE MORPHEMES while those morphemes that must occur in the company of some other morphemes are called BOUND MORPHEMES. In [3.121 the bound morphemes are italicised,

13-121

## post.modern.ist child child.ish

#### pre-pack-ed

The free morphemes in 13.121 can all be manipulated by syntactic rules; they can stand on their own as words, By contrast, it is impossible to use the forms -cide, post;, -is', pre-. -ed or -ingr independently,

So far, all the examples of free morphemes that function as roots that we have encountered have been content words (see p. 14). However, not all free morphemes are content words. Some are employed to indicate grammatical functions and logical relationship rather than to convey lexical or cognitive meaning in a sentence, Hence such words are called FUNCTION WORDS, 'They include words such as the following:

## [3.13]

articles: a/an, the

demonstratives: e.g. this, that, these and those

pronouns: e.g. l, you, we, they, my, your, his, hers, who

etc. prepositions: e.g. in, into, on, to, at, on, etc. conjunctions: e.g. and, or, but, because, if etc.

In ordinary language use such words are extremely common. But on their own they would not convey a lot of information. If you received a telegram like But it on to the in you might suspect that the sender either had a strange sense of humour or was not mentally sound.

3.5

# SOUND SYMBOLISM: PHONAESTHEMES AND ONOMATOPOEIA

In the vast majority of words, the relationship between sound and meaning is arbitrary (see p. 2). There is no reason why a particular sound, or group of sounds, should be used to represent a particular word, with a particular meaning, If someone asked you what [b] in bed or [str] in strange meant, you would think they were asking a very odd question, As a rule, sounds qua sounds do not mean anything;

However, the general principle that says that the link between sound and meaning in words is arbitrary is occasionally dented. This happens in two sets of circumstances. First, certain individual sounds or groups of sounds, which do not represent a specific enough meaning to be called morphs nevertheless appear to be vaguely associated with some kind of meaning, Such sounds are Called PHONAESTHEMES,

As our first example of a phonaestheme. let us take the RP vowel [ ] (which is historically descended from [U], the vowel that is still used in words like dull and hut in the north of England). This phonaestheme is found in words associated with various kinds of dullness or indistinctness, e.g. dull, thud, Thunder, dusk,

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blunt. mud, slush, sludge, slump etc. Obviously. the vowel [] per se does not mean 'dull". If it did. dim which contains the vowel [I] would not be a virtual synonym for dull.

Many words which mean 'to talk indistinctly' contain one or more occurrences of the labial consonant [nil, which is made with the lips firmly closed, preventing clear articulation- That way, the very act of pronouncing the word iconically mimics a key aspect of its meaning. You can see this if you watch yourself in a mirror saying words like mumble, murmur, mutter, muted, grumble etc. It is probably not an accident that these words also contain the phonaestheme [] - Similarly; the sound [ mp] (spelled-ump) as in clump, dump, hump, lump and hump is often found at the end of words which are associated with heaviness and clumsiness although no one would wish to suggest that -ump in itself represents the ideas of heaviness and clumsiness. Interestingly, here again we have the vowel I followed by the labial consonants Imp].

Observe also that whereas I I tends to have associations of heaviness or dullness, the high front vowels [i:] and [I] frequently

occur as phonaesthemes in words associated with smallness, in wee, teeny-weeny. lean, meagre. mini. thin and little. (The fact that big has the opposite meaning just goes to show that phonaesthemes only represent a tendency.)

Second, and more importantly, in addition to phonaesthemes,, there are onomatopoeic words in which a direct association is made between the sounds of a word-form and the meaning that it represents. In cases of ONOMATOPOEIA. the

sounds (qua sounds and not as morphs) symbolise or reflect some aspect of the meaning of the Word that they represent. if speakers of any language want an onomatopoeic Word for the noise a eat makes, they will not choose a noise like biimbobam—except, perhaps, in the land of the Ning Nang Nong.

The words for sounds made by various animals e.g. neigh, miaow, moo etc. are the most obvious examples of onomatopoeia. But there are others such as roar, crack, clang, bang, splash, swish, whoosh, buzz, hiss. cheep, bleep, gurgle, plop and plod. the case of onomatopoeic words, the relationship between sound and meaning is to some extent ICONIC. The sounds mimic an aspect of the meaning of the linguistic sign much in the same way that this iconic sign for a restaurant represents. more or less directly, the meaning 'restaurant'. This symbol is still conventional to some degree. To people who eat with chopsticks, it might not be immediately obvious why this sign represents a restaurant (rather than a cutlery shop), but once it is pointed out the link can be seen quite easily.

Onomatopoeic words are iconic in so far as they directly reflect some aspect of the meaning of what they stand for. So, conventionally in English cows go •moo' and horses go 'neigh\* and bees go 'buzz'. That is why Spike Milligan's nonsense poem 'On the Ning Nang Nong' is bizarre.

To be onomatopoeic. the sound must imitate to some degree an aspect of the noise made by the bird or animal. But exactly what is

imitated will vary from language to language. An English cock will say cockadoodledoo, a Russian cock kukuriku and in Uganda it may say kookoþi'ookoo. (These differences are not attributable to dialectical variation among the males of the Gallus domesficus species-j Onomatopoeic words are not purely and simply formed by mimicking precisely the meanings that they convey. To some extent onomatopoeic words are also moulded by linguistic convention. That is why in different places in the world different onomatopoeic words may be used for the same animal or bird noise.

## 3.6 VERBAL BLUEPRINTS

Linguistic theory incorporates the hypothesis that there are uni versal pnneiples of grammar that regulate the amount of variation in linguistic structure across languages. In the last section we saw the marginal role played by sound symbolism in word-formation. This does not obscure the fact that normally languages form

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On the Ning Nang Nong

On the Ning Nang Nong

Where the cows go Bong! And the Monkeys all say Boo! There's a Nong Nang Ning Where the trees go Ping! And the tea pots Jibber Jabber Joo. On the Nong Ning Nang All the mice go Clang! And you just can't catch 'em when they do! So it's Ning Nang Nong! Cows go Bong! Nong Nang Ning! Trees go Ping! Nong Ning Nang! The mice go Clang! What a noisy place to belong, Is the Ning Nang Ning Nang Nong

#### SPIKE MILLIGAN

3.62

Get the glue (agglutinating languages)

In an ideal agglutinating language most words contain more than one morpheme and the morphemes are realised by morphs arranged in rows like corn on the cob. The morphs can be neatly picked off, one hy oneSwahili is a good example of an agglutinating language as you can see:

[3.16]

ni-ta-pik-a I-future-cook-BVS 'I willcook' a-li-tu-pik-i-a s/he-pase-us-cook-for-BVS

's/he cook for us'
tu-li-wa-lim-ish-a
we-past-them-cultivate-cause-BVS
'we made them cultivate'

*Note*: BVS = basic verbal suffix which is normally -a

In a Swahili word, it is normally possible to say which morph represents which morpheme. Most morphs only represent one morpheme at a time and do not FUSE with adjacent morphemes, as say, plural marking does in leaves where it is partly signalled by the suffix -es /-Iz/ and partly by the change of the /f/ of leaf to / v/. It is as if the word is contructed by gluing together separable. discrete morphs.

# 3.63 Labyrinthine words (synthetic languages)

In a SYNTHETIC LANGUAGE a word normally contains mare than one morpheme. In this respect synthetic languages resemble agglutinating languages, However, whereas in an agglutinating language the morphemes and the morphs that realise them are arranged in a row one after the other. the morphs of a synthetic language are to a considerable extent fused together and cannot be separated neatly one from the other. Furthermore, the morphemes themselves are not arranged in a row. Rather, they are all thrown together in a big pot like pot-pourri- It is impossible to separate the different strands,

Latin is a classic example of an inflecting language. Any attempt to segment Latin words into morphs in such a way that each morph is associated uniquely with a particular morpheme very soon runs into trouble. You can see this for yourself if you attempt to segment the various word-forms of the nouns m nsa 'table' and fls 'flower'

into their constituent morphs and try to match those morphs with the con-esponding morphemes:

# [3.17]

Case

Nominative

Accusative

Genitive

# Singul

ar m

nsa

m

nsam

m

nsae

#### Plural

m nsae

m nsas

m nsarum

# singul

ar fl s

fl rem

fl ris

fl r s

fl r s

fl rum