ENGLISH WORD STRESS



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INTRODUCTION

During my course year in learning English, I of ten noticed that a good number of my fellow students did
not know how to put the right stress in English words.
Misstressed words like <u>repeat</u>, <u>pronounce</u>, <u>believe</u>, and
a lot more were commonly heard. Incorrect stressing of
phrases like <u>I think</u>, <u>of course</u> were not uncommon.

It is true that non-native speakers of English may readily understand the students when their speech contains a lot of incorrect stressings. But native speakers of English usually find it hard to understand. Such complaints as 'What are you talking about?' and 'Are you speaking English?' are often heard.

The object of this paper is, therefore, to provide the students with some guidance of English Stress and to help them eliminate many of the faulty stressings that occur in their speech.

This paper is largely based on library study. In or der to meet the students' need in learning English word - stress, I have picked out ideas found in the books writ - ten by Roger Kingdon, Daniel Jones, W. Stannard Allen, and A.C. Gimson, just to mention a few. A complete list of books and their authors are found in the Bibliography.

The standard dialect of British English, that is what British linguists call the Received Pronunciation, is used to indicate the word stress in this paper. It is not because British English is better than American English. It is merely a matter of convenience since the books that I read are written by British linguists.

As a rule, two degrees of stress are indicated by vertical stress marks, a high mark (') indicating a

primary stress, and a low mark (,) indicating a secondary stress. According to Roger Kingdon, it is misleading
to use a low stress mark to indicate what is actually a
high level stress. He says that the marking of the word
in'feri'ority gives a more accurate picture than does
in,feri'ority, and 'photo,graph is better than 'photo,graph.

Consequently, he introduces a third stress mark () to indicate the primary stress. He says that these changes give a clear and logical picture of the stressing of each word, since the marks now illustrate the pitches used in the lexical pronunciation. These changes are used in this paper.

It is usually assumed that English phonemes consist of vowels and consonants only. In chapter I we will see that length, pitch, and especially stress are also phonemic in nature. And stress, being our main concern, is discussed in great detail in Chapter II.

This paper does not attempt to discuss the whole complex problems of English stress. It concentrates on one single aspect only, that is, the stressing of English simple-words. In Chapter III some factors which govern the incidence of English simple-word stress are fully discussed.

To overcome the problems of learning English word - stress, some valuable suggestions are given in Chapter IV. But we must keep in mind that the techniques suggested are tentative in nature, since I have no experience in teaching English stress.

CHAPTER I

ENGLISH PHONEMES

1. English Segmental Phonemes

mented or broken up into different significant units. The word top, for instance, consists of three significant sound units. /t/ is a voiceless alveolar stop made by pressing the tongue tip and the rims against the alveolar ridge (teeth-ridge). /0/ is a back vowel produced by rounding the lips and raising the back part of the tongue against the back part of the palate. /p/ is a voiceless bilabial stop made by pressing the lips tightly together to stop the air.

We can further prove the significant of those sounds by comparing the following minimal pairs. 1)

<u>top</u> - <u>cop</u> t<u>op</u> - <u>tip</u> top - tot

English segmental phonemes fall into two classes, viz; vowels and consonants. In some other languages, linguists recognize more than two classes of segmental phonemes. But we will not discuss them in this paper. In the next few pages English vowels and consonants will be briefly discussed.

A. English Vowels

British linguists usually describe English vowels as consisting of simple vowels and diphthongs or glides. The simple vowels are further broken up into short and long vowels.

¹⁾ Minimal pairs are two words which differ from each other in only one sound element.

- a. Simple Vowels
- /i:/ (long i) is made by raising the tip of the tongue as high as possible. The lips are spread. E.g., see, bee.
- /i/ (short i) is like /i:/ except that the tongue is a little lower and the lips are in a neutral position. E.g., bit, sit.
- /e/ is made by raising the tongue in a mid front position.

 The lips are spread or neutral, e.g., set, met.
- /æ/ The tip of the tongue is in a low front position. The mouth is wider than it is for /e/, e.g., bad, sat.
- /a:/ (long a) The tongue is poised in a low central position.

 The mouth is opened widest, e.g., car, far.
- /// The centre of the tongue is poised in a mid central position, e.g., but, cut.
- /a:/ (long schwa) The centre of the tongue is raised in a low central position, the lips being spread; bird, word.
- /a/ (short schwa) It is made like the long schwa except that the tongue is a little higher, e.g., above, ago.
- /u:/ The centre of the tongue is poised in a high back position. The lips are rounded, e.g., cool, food.
- /u/ It is similar to the long one except that the tongue is slightly lower. E.g., good, should.
- /o:/ The centre of the tongue is poised in a low back position. The lips are fully rounded and the mouth is opened wider than it is for /u:/; brought, caught.
- /3/ It is like the long one except that the tongue is slightly lower. E.g., hot, top.
- b. English Diphthongs
 The diphthongs in British English are:
- 1. Three long glides to /i/
- /ei/ The tongue begins in the same position as for /e/ and

moves to an even higher position; e.g., day, play.

- /ai/ The tongue begins in the position for /a/ and moves toward a high front position; e.g., fly, try.
- /Di/ The tongue begins in the position for /D/ and moves toward a high front position; e.g., coy, boy.
- 2. Two long glides to /u/
- /ou/ The tongue begins in the position for /o/ and moves toward an even higher position; e.g., go, slow.
- /au/ The tongue begins in the position for /a/ and moves toward a high back position; e.g, how, cow.
- 3. Three long glides to /a/
- /ie/ The tongue begins in the position for /i/ and ter minates at a mid central position; e.g., ear, beard.
- / ϵ ə/ The tongue begins in the position for $/\epsilon$ / and moves toward a mid central position; e.g., pair, fair.
- /uə/ The tongue begins at /u/ and terminates at /ə/; e.g., poor, sure.

B. English Consonants.

In British English phonological system, there are essentially four types of consonantal phonemes. They are stops, fricatives, nasals, and resonants. There is actually one more type of consonantal phonemes which is called affricate. An affricate is a combination of two sounds, a stop and a fricative, but English speakers regard these as single sounds.

a. Stops

English stops are made by stopping the on coming air with the lips or tongue as it is exhaled. English has three voiced stops, /b/, /d/, /g/, and three voiceless stops, /p/, /t/, /k/. The term voiced means that during the production of the sound the vocal cords vibrate.

Voiceless means that during the production of the sound the vocal cords do not vibrate.

/p/ and /b/ are called bilabial. They are produced by pressing the lips tightly together to block or stop the air. The only difference between the two sounds is that /p/ is voiceless and /b/ is voiced.

/t/ and /d/ are alveolar. They are made by pressing the tip of the tongue against the teeth-ridge to stop the air. /t/ is voiceless, while /d/ is voiced.

/k/ and /g/ are called velar. They are made by rais ing the back part of the tongue to touch the velar so that the on coming air is blocked. /k/ is voiceless, /g/ voiced.

b. Fricatives

Fricatives are made by obstructing the air with the lips, teeth or tongue, but still allowing a trickle of air to get through. Fricatives differ from stops in that fricatives can be sustained until the speaker runs out of breath. English fricatives are f/f, f/f, f/f, and f/f.

/f/ and /v/ are labiodental. The air passage is narrowed by pressing the upper teeth against the lower lips so that the air in escaping makes a kind of hissing sound. /f/ is voiceless while /v/ is voiced.

 $/\theta/$ and $/\delta/$ are interdental. They are made by placing the tip of the tongue between the upper and lower teeth so that the escaping air passes through the slight opening. $/\theta/$ is voiceless, $/\delta/$ is voiced.

/s/ and /z/ are alveolar. They are made by placing the tip or blade of the tongue against the alveolar ridge and blowing. /s/ is voiceless, /z/ is voiced.

/// and /3/ are palatal. They are made by placing the middle part of the tongue against the palate, that is

the part of the roof of the mouth immediately behind the alveolar ridge. $/\int/$ is voiceless, /3/ is voiced.

/h/ is glottal. It is made by slightly closing the glottis and blowing. /h/ is voiceless.

c. Nasals

Nasals are formed by completely closing the mouth at some point, the soft palate remaining lowered, so that the air is free to pass out through the nose. English has only three nasals,/m/, /n/, / η /, all of which are voiced.

/m/ is bilabial. It is made by pressing the lips tightly together and letting the air pass through the nose.

/n/ is alveolar. It is made by pressing the front part of the tongue against the alveolar ridge and letting the air go freely through the nose.

 $/\eta/$ is velar. It is formed by raising the back part of the tongue to touch closely against the velum and letting the air pass freely through the nose.

d. Resonants

Resonants are continuant voiced sounds, the quality of which is determined by the shape given to the mouth cay ity by means of tongue and lip positions. English has four resonants, /j/, /w/, /r/, /l/. /j/ and /w/ are often called semi-vowels because during the production of the sounds the speech organs start at or near a close vowel²) and immediately move away to some other vowel.

/j/ is palatal, formed by raising the centre of the tongue toward the palate, but not as high as it is for /3/,

²⁾ Close vowels are those which are made by raising the tongue as high as possible so that the mouth cavity is almost blocked.

and exhaling with voicing.

/w/ is labial, produced by rounding the lips and blowing with voicing.

/r/ is alveolar, made by raising the tip of the tongue closely against the teeth ridge and exhaling with voicing.

/1/ is lateral, made by pressing the tip of the tongue against the teeth-ridge and letting the air pass through the sides of the mouth while voicing.

e. Affricate

An affricate resembles a plosive but with separation of the articulating organs performed less quickly so that a fricative sound is perceived during the process of separation.

/ts/ is a voiceless palato-alveolar affricate. It is made by placing the tip and the blade of the tongue a-against the teeth-ridge and the front part of the hard palate to make complete contact. The contact is then released in such a manner so that a short /5/ is heard.

/d3/ is produced like /ts/ except that /d3/ is voiced.

2. English Supra-Segmental Phonemes

A. C. Gimson³⁾ says that a sound has not only quality, whose phonetic nature can be described and function in a given language, but also length, pitch, juncture and stress. He calls these features prosodic or supra-segmental. Supra-segmental phonemes are those which cannot be said in isolation but are produced simultaneously with the segmental ones.

³⁾ A. C. Gimson: An Introduction To The Pronunciation of English.

Length, pitch and stress are significant features in British English. American English only regards juncture, pitch and stress as significant. Length is not significant in American English. In American English, any of the simple vowels can be sustained indefinitely without affect ting its identity.

a. Length.

According to Daniel Jones, the length or quantity of a sound is the length of time during which it is held on continuously in a given word or phrase. Vowels and continuant consonants have length. Diphthongs and semi-vowels also have length. Flapped consonants and plosives may be regarded, for practical linguistic purposes, as having no appreciable length.

In British English it is not necessary to distinguish more than two significant degrees of length since significant opposition only occurs between long and short vowels. The mark of length is /:/ placed immediately after the symbol of the sound which is long. Short sounds are usually left unmarked.

The following pairs of words show that length poses significant contrast in British English.

hid /hid/	versus	heed /hi:d/
sit /sit/	versus	seat /si:t/
pull /pul/	versus	<pre>pool /pu:1/</pre>
cot /kat/	versus	caught /ko:t/

b. Pitch

Pitch is the melody, or intonation, of the utterance.

⁴⁾ Daniel Jones: An Outline Of English Phonetics.

It is the degree of highness or lowness as we speak. English makes phonemic use of pitch in its intonational system.

In English the pitch pattern, together with their terminals, distinguish one sentence from another. Consider the following sentences.

- 1. 3John 2went home1.
- 2. ²John ²went home³?

The wording of the above sentences is exactly the same. However, the meaning of the sentences is not quite the same. The first is a statement and the second is a question. The difference which distinguishes them lies in the changing pitch of the voice. The first sentence uses what we usually call falling intonation, and the second rising intonation.

c. Juncture

Juncture can simply be defined as the boundary line between words. An utterance does not necessarily become understandable even when all its vowels and consonants, and its stress patterns have been recognized. It is still necessary to recognize where the boundary falls. Consider the following sentences.

- 1. He will act, roughly in the same manner.
- 2. He will act roughly, in the same manner.

In writing, <u>roughly</u>, is assigned to what follows or what precedes by the position of the comma. In speech, the two are equally distinct. The position of the boundary is signalled by elements in the sound system, which are imperfectly represented in writing by punctuation mark.

Moreover, juncture is what distinguishes pairs like:

night rate - nitrate

free Danny - freed Annie

I scream - Ice cream

See Mable - seem able

Phonetically, juncture may be defined as the presence or absence of a glottal stop. Freed Annie and seem able have glottal stops. Free Danny and see Mable have no glottal stops. Sometimes juncture is phonetically a matter of the choice of allophone of a stop. For instance, the first /t/ of nitrate is aspirated while the /t/ at the end of night in night rate is not. Similarly the /k/ of ice cream is aspirated while that of I scream is not.

d. Stress

Stress may be described as the degree of force with which a sound or syllable is uttered. Every spoken sound or syllable has a greater or lesser amount of energy expended upon it. Usually a sound or syllable which the speaker feels to be important is uttered with relatively greater energy. It is made to stand out from its neigh - bours.

Like other supra-segmental phonemes, stress is significant in the sense that it is capable of distinguish ing one word from another. The pairs of words below show that stress is phonemic in English.

'differ - de'fer

'permit(n.)- per'mit (v)

In most dialect the pairs above are exactly alike except that in the first it is the initial syllable which is loudest and in the second it is the final syllable

which is loudest.

So far we have talked about English segmental and supra-segmental phonemes. Segmental phonemes are the vow els and consonants. Supra-segmental phonemes are length, pitch, juncture, and stress. In the next chapter we will discuss English stress in great details. Rhythm and sentence stress will only be briefly discussed.

CHAPTER II

ENGLISH STRESS IN DETAIL

1. The Nature of English Stress

Stress is the relative degree of force used by a speaker on the various syllables he is uttering. It gives a certain basic prominence to the syllables, and hence to the words, on which it is used. The force used to denote stress gives us an objective impression of loudness.

All languages are characterized by differences in loudness in the chain of utterance, but not all languages employ these differences so as to set up contrasts among them. A good example is the nearly extinct Indian language Tonkawa. In this language, stress falls on the second syllable of any two-syllable utterance and on the penultimate of any poly-syllabic words.

In English, the situation is quite different. As was pointed out in Chapter I, the extreme of contrast in stress can be readily established by comparing two utterances such as 'differ and de'fer. The two forms are alike except that in the first the stress falls on the first syllable and in the second the stress falls on the second syllable.

In English we recognize two types of stress; word stress and sentence stress. Word stress is the relative degree of force used in pronouncing the different syllables of a word of more than one syllable. Monosyllables cannot be said to have word stress. Sentence stress is the distribution of stress upon different words in a sentence.

2. Stress Versus Prominence

Stress is not the same thing as prominence. It is

an important element contributing to prominence. Other contributing elements to prominence are pitch, quality and quantity.

Any or all of the factors may render a syllable more prominent than its neighbours. However, not all have equal validity for speaker and listener alike. They are not equally efficient as markers of the accented syllable.

a. Stress

As has been said before, a sound or syllable which is stressed is one upon which relatively great breath effort and muscular energy are expended in the articulation. This is usually perceived by the listener as greater loudness associated with the sound or syllable. Thus, the greater energy which the speaker puts on the first syllable of answer may be perceived as greater loudness for the listener.

The speaker may feel several degrees of articulatory energy in producing polysyllabic words. Nevertheless the English speaker will normally distinguish only stressed and unstressed syllable, to which will correspond the lig tener's impression of loud and weak syllables.

b. Pitch Change

Stress (loudness) is not by itself an efficient device for signalling the accent of a given utterance. Consider the following pairs of words.

insult (n) - insult (v)

import (n) - import (v)

billow - below

When they are said on a monotone and with unexaggerated quantities, it is difficult to distinguish them by stress

alone.

However, the accentual cue becomes clear when stress is associated with pitch prominence. The verb and noun forms of insult, for example, are easily distinguished by pitch patterns, that is, with a falling tone against

Among stressed syllables, some are more likely than others to be associated with pitch change. Thus, when the word examination is pronounced with pitch pattern the second syllable may have no pitch prominence in relation to its neighbours. Such accentuation is achieved large by stress alone. This is called secondary, rhythmic or non-tonic accent.

The fourth syllable /nei/, on the other hand, is always associated with a pitch change when the word is said in isolation. This type of accentuation is called primary, nuclear, or tonic.

The most common relationship of pitch and stress in word accentuation may be summarized as follows:

- 1. Primary accentuation. The syllable receiving this accent is normally associated with a potential change of pitch direction.
- 2. Secondary accentuation. The syllable receiving this accent is not normally associated with a change of pitch direction, but may be prominent (signalled by a potential change of pitch level), or rhythmic.

Stress and pitch combined are generally said to be the most powerful devices to signal the degree of the ac - cent in a word.

c. Sound Quality

The relative prominence of sounds and syllables also

gives rise to the accentual pattern of words. In a sequence of phonemes, vowels will normally be more prominent than consonants. Among the vowels, prominence in creases as they become more open. Among the consonants those which are vowel-like stand out from the remainder, while fricatives have higher prominence than plosives.

In addition to the prominence of sounds, certain English phonemes are particularly associated with unaccent ed situations. /3/ usually occurs in unaccented syllables. /i, u/, though both may receive full accentual prominence, have a high frequency of occurence in unaccented syllables.

The other English vowels may also occur in syllables which do not receive primary accent, but they may be associated with some degree of secondary accent, especially /æ, a:/, the long vowels and diphthongs.

Compare: never - nephew contain - canteen

wrecker - record aghast - August

d. Quantity

By quantity we usually mean the length of sounds. Long vowels and diphthongs (particularly in their non-reduced form) will always be associated with prominence. However weakly stressed they may be and despite the fact that long vowels or diphthongs in unaccented syllables do not have the same length that they would have in accented syllables, association between long vowels and prominence is inevitable. This is the case of the vowels in the final syllables in such words as phoneme, foward, placard; in the pre-tonic syllables of idea and sarcastic.

Thus, it is clear that any or all of these four factors may play an important part in rendering a sound or syllable prominent. In speech, however, it is stress and

pitch variation which are the most commonly used and the most efficient cue of prominence.

3. Double Stress

For practical teaching purposes, we usually recognize only two degrees of stress; primary and secondary stress. So far we have used /'/ to indicate primary stress. However, this mark will no longer be valid when we come to deal with double-stressed words. A double-stressed word requires two strong stresses. The second is associated with a pitch change, and therefore more prominent, while the first is not. Therefore we must design some other stress marks which will adequately describe double-stressed words.

a. Primary stress /\/

This stress is said with a falling tone. Syllables taking this stress are the most prominent. In a single stressed word, this stress always falls on one of the first two syllables. For examples:

`private ne`glectful
re`peat comfortable

b. Secondary stress

There are two kinds of secondary stress. They are:

1. Secondary stress with a high level tone /'/.

Eventhough it has a full degree of stress, it is less prominent than the primary stress. It is usually pitched at or near the top of the speak - er's normal voice range. This kind of stress always comes earlier in the word than that bearing the primary stress. For example:

'half'baked 'photo'graphic
'can'teen in'tensifi'cation

2. Secondary stress with a low level tone /,/
It is pitched at or near the bottom of the speaker's normal voice range. It may come either earli
er or later in the word than that bearing the primary stress. For example:

aus picious bar barian circula, rize

We now come to the question of what double stress is.

Words that consist of a primary stress on one syllable and a high level secondary stress on an earlier syllable are said to be double-stressed. Examples are 'pay'ee, 'un - known. Those which have a primary stress preceded or followed by a low level secondary stress are classed as single-stressed.

Double-stressed words form a large proportion of the English vocabulary. A discussion of them is therefore worth-while. In the following are instances of suffixes and prefixes which cause double stressing.

a. Double Stressing Caused by Suffixes

It is a noteworthy fact that a suffix generally demands a stress on a syllable which is not one of the first two in the word. The following suffixes usually give rise to double stressing.

1. Compound suffixes that take a stress on their third syllable automatically give rise to double stressing, even when they are added to a monosyllabic root. They are, -ionalistic, -ionability, as in 'nationa' listic,

and in im'pressiona bility.

2. Compound suffixes that take a stress on their second syllable similarly give rise to double stressing.

-atorial as in 'dicta' torial

-ization as in 'coloni' zation

-omatic as in 'sympto' matic

-uality as in e'ventu'ality

3. Suffixes that take a stress on their first syllable introduce double stressing when they are added to roots of more than one syllable. They are -aire, -arian, -astic, -ee, -elle, -ette, -escent, -graphic, -icial, -ier, -mental, -osis, -osity, -uity.

'millio naire 'cente narian
'ecclesi astic 'refe ree
'ado lescent 'silhou ette
'photo graphic 'bene ficial

4. Suffixes that cause the stress to fall on the syllable that precedes them will introduce double stressing only when added to a prefix plus root, containing between them at least three syllables.

'miscel laneous as in -eous 'carbo'niferous as in -ferous 'lexi'cographer as in -grapher 'cere'monial as in -ial 'inex'perience as in -ience 'anthro'pology as in -logy 'inef'fective as in -tive 'intel'lectual as in -ual

5. Suffixes that cause the stress to fall on the second

syllable before them will introduce double stressing only when added to a prefix plus root, containing be tween them at least four syllables.

-ary	as in	'super'numenary
-ate	as in	'insu'bordinate
-ite	as in	'ento'parasite
-tude	as in	'inex'acti, tude

b. Double Stressing Caused by Prefixes

Words formed by adding a prefix having a distinct meaning of its own very usually introduce double stressing.

anti-, arch- (in the sense of chief) as in anti climax arch bishop

dis- (when equivalent to un, or implying separation)

'dis'loyal 'discon'nect

'disem'bark

ex- (in the sense of <u>former</u>) as in 'ex- president

inter- (in the sense of reciprocal) as in
'inter'mingle 'inter'act

mal-, mis-, (in the sense of error or falseness)
'malfor mation 'mis'quote

over- (in the sense of too much) as in
'over'estimate 'over'ripe

pre- (in the sense of beforehand) as in
 'pre'paid 'prede'termine

re- (denoting repetition) as in 'rear'range 're'fill

ultra-, un-, under- (in the sense of too little)
'ultra-`fashioable 'un`fruitful
'under`estimate 'under`populated

Thus we see that a good number of prefixes and suffixes gives rise to double stressing. Aside from the fact that suffixes cause double stressing, they may also change the position of the primary stress ('million - 'millio'naire). This phenomenon is essential for the learners to know. A detailed discussion on suffixes affecting the primary stress of the word will be brought forward in Chapter III.

4. Functional Stress Changes

A number of English words show a functional stress distinction. When the word is used as one part of speech, it is stressed on the root, and when it is used as another, it is stressed on the prefix. Most of these words are disyllabic and begin with a Latin prefix.

According to Roger Kingdon¹⁾ this phenomenon is largely caused by special factor that native disyllabic - nouns tend to be stressed on their first syllable and native disyllabic verbs on their second syllable. He fur -

¹⁾ Roger Kingdon: The Groundwork of English Stress.

ther points out that the tendency is for noun to take suffixes, as in <u>kindness</u>, <u>handful</u>, <u>sisterhood</u>, <u>kingdom</u>; and for verbs to take prefixes, as in <u>a wait</u>, <u>be lieve</u>, <u>em bitter</u>, <u>for get</u>, <u>with hold</u>.

Similarly the majority of disyllabic words showing functional stress distinction are those in which the word stressed on the prefix is a noun, while that stressed on the root is a verb. It is important to note that many of the nouns appearing in the list below can be used adjectivally.

The shift of the stress on the disyllabic words almost invariably causes changes in pronunciation, especially of the vowels. These changes, however, are not indicated in the list. The presence of secondary stress is also not shown.

List of words showing functional stress distinction.

<u>NOUN</u>	VERB
abstract	ab'stract
accent	ac'cent
addict	ad'dict
affix	af'fix
ally	al`ly
collect	col`lect
combat	com'bat
combine	com bine
comment	com'ment
commune	com'mune
compact	com'pact
compound	com pound
compress	com press
`concert	con'cert

concord	con cord
concrete	con crete
conduct	con duct
`confine	con fine
conflict	con'flict
content	con'tent
contrast	con`trast
`contract	con tract
`converse	con'verse
`convict	con vict
`convoy	con voy
decrease	de'crease
desert	de'sert
detail	de ` tail
digest	di gest
discount	dis'count
eject	e`ject
escort	es'cort
export	ex port
import	im port
increase	in crease
insult	in`sult
object	ob`ject
permit	per'mit
produce	pro'duce
progress	pro'gress
protest	pro'test
rebel	re'bel
record	re'cord
regress	re'gress
reject	re`ject
retail	re'tail

`refill re`fill
`transfer trans`fer
`transport trans`port

ADJECTIVE VERB

absent absent

dilute dilute

direct direct

frequent frequent

frustrate frus trate

prostrate pros trate

ADJECTIVE

au`gust

ex`pert

in`stinct

mi`nute

su`pine

NOUN

august

expert

instinct

minute

supine

5 A. Word-Stress (simple words)

Most English words of two syllables have one primary stressed-syllable and one weak one. The primary stress is on the first syllable in some word and on the second in others. Examples are:

comfort fortune insult re peat in crease be lieve

Sometimes disyllabic words have two strong stresses. They are said to be double-stressed. Examples are:

'pre'paid 'fif'teen 'un'known

In English, words of three or more syllables usually have one strong syllable and occasionally two. The o
ther syllables in the words are usually weak (unstressed),
but in some other words there may be syllables with a low
level secondary stress. Examples are:

, spon taneous , mo bility adver, tise

In order to acquire an over-all view of what English stress system is like, it is important to learn the various stress patterns which are permitted in English.

The arrangement of stressed and unstressed syllables in a given word, the type of stresses used, and the relative pitches of the various syllables may be called the stress pattern of the word. In the next few pages classified examples of various word stress patterns found in English will be given.

At the head of each column are tonetic symbols indicating the stress and tone pattern of the words beneath.

- () Primary stress with falling tone.
- (') Secondary stress with high level pitch.
- (,) Secondary stress with low level pitch.
- () Unstressed syllable of high pitch.
- (__) Unstressed syllable of low pitch.

Two-syllable Word

(>)	(`)	(1 \)	()
able	absurd	bamboo	profile
easy	condemn	payee	placard
habit	divide	redhot	female
under	result	unknown	invoice
worldly	withdraw	Chinese	programme
over	alone	idea	phoneme

canteen expert arrive husband cashier window behind cotton Three-syllable Word (1 > 1)(` _ _) re-entry eleven average half-hearted distressful bungalow misshapen external eatable important reshipment influence uncertain relation innocence (1-1)embargo undergo cataract contribute telephone acquiesce photograph tobacco immature tomato pedegree represent Four-syllable Word (\ _ _ _) remarkable ex-president agriculture half-heartedly impossible evidently unethical affirmative matrimony unfortunate photography remediless non-combatant legality ultimately (' - ' _) electioneer dedicatee unimportant hullabaloo examinee advantageous misrepresent recitative confidential misunderstand superimpose incompletely rejuvenesce photogravure circulation

(\ _ , _ telescoping acclimatize capitalize appetizing enumerate counterattact Five-syllable Word (' ` _ _ _) inapplicable intensifier cumulatively regerminating confucianism deprecatory unconscionable benevolently secondarily vice-presidency contemporary sectionalism administrative speculatively . - - \ _) (_' _ ` _) (' - ` _ _) temperamental affiliation objectivity consideration interdependence abnormality impressionistic characteristic satisfactory supposititious authorization aristocracy apotheosis circumlocution representative (1-___) rehabilitate inexactitude incapacitate inarticulate

Six-syllable word

inferiority
impossibility
convertibility

characteristical variability metereological

uncooperative ceremoniously undistinguishable

(1-__)

palatalization personification
nationalization identification
autobiographic electrification

Seven-syllable Word

(' _ _ _ _)
unilateralism unreliability

(_ _ _ _ _)
enthusiastically industrialization

We can see that some of the patterns occur with much greater frequency than others. The patterns that contain a series of more than two unstressed syllables tend to be uncommon. In words of more than three syllables final stresses are relatively rare.

5 B. Word-stress (compound words)

By a compound word is meant here a word created by joining two or more words together. In conventional spelling, a compound word is written as one, with or without hyphen.

A compound usually has a more limited meaning than the words from which it has been formed. Thus, <u>daybreak</u>, for example, means the time when the first light of the day begins to grow.

The number of possible collocations in English is almost illimitable, as will be readily realized when it is pointed out that the combinations $\underline{adjective + noun}$ (as in

red rose and silent partner), noun + noun (as in space - time and countryman), or verb + adverb (as in go away and breakdown) are potential collocations.

English compounds normally contain a single primary accent on one element of the compound, and a secondary accent on the other element. In the case of disyllabic compounds, the secondary prominence of the second element is realized with a low level secondary accent. Unaccented second elements of these compounds may be observed when the weak vowel /ə/ is present.

The accentual patterns of English compounds in which the primary stress falls on the first element are said to have single stress and are as follows.

Two-syllable Compounds

() or	(_)		
air-raid	postman	coalmine	flowerpot
backache	footman	windscreen	gas-mask
blackbird	chairman	highbrow	crossword
blackmail	boatswain	lifeboat	earthquake
bridesmaid	birdcage	tail-coat	footprint

Three-syllable Compounds

(\ , _)	(
air-worthy	borderline
dance-music	buttonhole
dog-collar	chambermaid
golddigger	copyright
grasshopper	drawing-pin
grandfather	honey-moon
landlady	waiting-room

Four-syllable Compounds

antechamber musical-box dispatch-rider booking-office Catherine-wheel machine-minder carpet-sweeper labour-exchange dinner-jacket tape-recorder

The other type of compound has a primary accent on the second element and a secondary accent with a high level tone on its first element. Compounds of this kind are said to have double or level stress. They are as follows:

Two syllables	Three syllables	Four syllables
	(1 \ _)	(1 - \)
back-fire	archbishop	country-house
downstairs	coldblooded	double-cross
free-wheel	pig-headed	secondhand
full-grown	downhearted	ginger-beer
ground-floor	short-sighted	

Four-syllable Compounds

broken-hearted post-graduate
easy-going vice-chancellor
Indiarubber
mass-production

Five-syllable Compounds

hot-water-bottle
waste-paper-basket

6. Sentence Stress

Sentence stress is the distribution of stressed and unstressed words in a given sentence. As a general rule, it may be said that the relative stress of the words in a sentence depends on their relative importance. The more important a word is, the stronger is its stress. In any normal sentences the following words are generally important and therefore stressed.

- a. Nouns.
- b. Demonstratives.
- c. Adjectives.
- d. Adverbs.
- e. Verbs (and auxiliaries in certain circumstances)

The other words in a sentence, mostly grammatical words, whose function is to join together the words that carry meaning, are normally unstressed. Thus, prepositions, auxiliaries and conjunctions are not stressed. Pronouns are not stressed also.

When all the important words in a sentence are equally important they are all strongly stressed. Thus in the sentence, 'John has 'just 'bought 'two 'large 'brown dogs, every word is stressed except has. In the ensuing para graphs are some important rules concerning English sen tence stress.

The students should note particularly the case of one word qualifying another. Both words usually have strong stresses. Examples are:

- It's 'very im'portant.
- a 'useful book
- -'next 'monday
- 'bank holiday

In the case of a verb followed by an adverb, the two words together forming what is practically a new word, should be specially noted. Both words are normally stressed. Examples are:

- 'go a'way
- 'give 'up
- 'put 'down

Phrases which are equivalent to single verbs are treated in the same manner. Examples are:

- 'get 'ready
- 'make haste
- 'go 'blind

It is worth noting that the stressing of the phrases above follows what we have called 'double-stress' stress pattern.

In the case of pronouns, we may note that the pronoun one never receives strong stress; as in a lovely one, and anyone. The pronoun it is not often stressed in normal, unemphatic speech; for example:

- 'Give it to me!
- 'What shall I 'do with it?

A word that has just been used previously is not stressed. Examples are:

- 'How many 'each? -- Two each.
- 'Soon the 'man was 'joined by a nother man.

Auxiliary verbs are not normally stressed. They are stressed in the following particular cases.

a. In affirmative statements for the sake of emphasis, e.g.,

- It can be done.
- It has been done.
- b. When immediately followed by not pronounced /nt/, e.g.,
 - I 'shouldn't have 'thought so.
 - We 'haven't been able to.
- c. When introducing a question, e.g.,
 - 'Have you 'seen them?
 - 'Did you like it?
- d. When the principal verb is supressed, e.g.,
 - 'Yes, I have.
 - He 'always does.

Words which would normally be strongly stressed may lose some stress when there is some idea of contrast expressed in the sentence. For example:

- -We 'heard 'John 'talking. (plain statement of fact)
- -We heard John talking. (but we didn't see him)
- -We heard John talking. (but we didn't hear Mary)
- -We heard John 'talking. (but we didn't hear him singing)

Words which would normally receive strong stress may lose some stress under the influence of sentence-rhythm. The following variations are due to the rhythmic al regularity of strong stresses in connected speech.

a. Words bearing two strong stresses may lose the first when closely preceded by another strongly stressed syllable, or they may lose the second when closely followed by another strongly stressed syllable, e.g.,

'un known - 'quite un known

- 'fif'teen 'fifteen 'shilling 'ten fif'teen
- b. Compound words are similarly affected. For example:
 - 'arm'chair
 a 'nice arm'chair
 'Put the 'armchair here.
- c. The very common combination of <u>verb + adverb</u> which normally bears strong stresses on both elements is also subject to rhythmical variations. For example:
 - I 'got 'up and 'went 'out.

 I 'can't get 'up.

 'Get up and 'dress.
 - He 'put on his hat.
 He 'put it on.

7. Rhythm

Stress, rhythm and intonation should really be considered as a whole, for they are very closely connected elements of a single aspect of the language called Speech Flow. Speech is essentially movement. Students who can pronounce the isolated sounds of a language must still train themselves to set them in motion in the right manner if they wish to make themselves easily understood.

Spoken language behaves in the similar way as music. Music has its stress in the regular recurrence of beats. It has its own rhythm and melody. The sounds of English and isolated syllables, like notes or chords in music, only become intelligible when set in motion.

It is generally assumed that a reasonably correct

speech flow is more important for intelligibility than correct sounds. Foreign speakers of English usually fail to acquire an intelligible speech flow, eventhough they can make English sounds quite well. As a result, English speaking people find it quite difficult to understand them.

Excellent works on stress, rhythm and intonation have been done by many outstanding authorities. Among them are R. Kingdon's <u>The Groundwork of English Intonation</u> (1958), J. D. O'Connor's <u>Stress</u>, <u>Rhythm and Intonation</u> (1976), W. Stannard Allen's <u>Living English Speech</u> (1973) and Armstrong and Ward's Handbook of English Intonation (1926).

Since rhythm is more closely related to stress than to intonation, we will only discuss English rhythm and set intonation with its complication aside.

The characteristic rhythm of English speech depends upon the stressed syllables. In English sentences, those words which are most important to the meaning at the moment of speaking always contain a stressed syllable. The basic rule of English rhythm is that the stressed syllables follow each other at regular intervals of time. There is approximately the same amount of time between each pair of stressed syllables in a given sentence.

A simple illustration of this rule is found in counting. From one to six, every syllable is stressed, and they follow each other like a regular drum beat.

'one, 'two, 'three, 'four, 'five, 'six.

The number <u>seven</u> has two syllables, the first one stressed and the second unstressed. This means that the two syllables have to be said in the same space of time as the other single syllables.

The sequence 1 to 10 has eleven syllables, but only ten rhythmical beats, corresponding to the ten stressed syllables. The stressed syllables must occur on a regular beat, and the unstressed syllables between them must be fitted in between the stressed ones. Thus,

'one, 'two, 'three, 'four, 'five, 'six, 'seven, 'eight, 'nine, 'ten.

The number <u>eleven</u> has three syllables together, but only the middle one is stressed. That stressed syllable must be in time with the ten previous ones. And when we come to 13, 14, 15 and so on, which have initial stress, the regular drum beat of these syllables does not change at all. The unstressed second syllables have to be put in between the others without interfering with the beat.

It is a general rule that the speed of utterance is largely dictated by the number of stressed syllables. The fewer the stresses, the more rapidly the voice skips over the intervening unstressed syllables. If we read a pas - sage at random so that we have a fair sample of mixed stressing, we will find that the overall effect of this is to create the impression that stressed syllables occur at fairly regular intervals. When two or more stresses come closely together, the speed of utterance is remarkably slow er. But when they are separated by several unstressed syllables, these syllables move along more rapidly; e.g.,

You should 'come in order to meet him.
You should have 'come before it got so late.

The first sentence has five words, the second eight and the third nine. And yet the amount of time used to

utter the three sentences should be approximately the same for each sentence has only two stresses and consequently two rhythmical beats. This is done by skipping rapidly over the unstressed words.

In order to acquire the ability of moving along rapidly over the unstressed syllables or words, the students should be familiar with the weak forms of certain words. There are words in English which have strong froms when they are stressed and weak forms when unstressed. These words are mostly form-words.

It is very important to learn to use these words correctly and to give them their weak forms when they are unstressed. The weak forms differ from the strong forms in two main ways:

- 1. The weak forms show some reduction of the length of sounds and obscuration of some vowels towards /2, i, u/.
- 2. A vowel or a consonant is left out in the weak forms.

A fairly complete list of words with their strong and weak forms is listed below.

·	WEAK	STRONG
a	/ə/	/ei/
am	/m, əm/	/æm/
an	/n, ən/	/æn/
and	/ənd, nd, ən, n/	/ænd/
are	/ə/ + consonant	/a:r/
	/ər, r/ + vowel	/a:r/
as	/əz/	/æz/
at	/ət/	/æt/
be	/bi/	/bi:/

been	/bin/	/bi:n/
but	/bət/	/b/t/
can (aux)	/kən, kn/	/kæn/
could	/kad, kd/	/kud/
do (aux)	/du, də, d/	/du:/
does (aux)	/dəz/	/dnz/
for	/fe/ + consonant	/fo:/
	/fər/ + vowel	/f0:r/
from	/fram/	/mcri/
had (aux)	/had, ad, d/	/hæd/
has (aux)	/həz, əz, z, s/	/hæz/
have (aux)	/hav, av, v, f/	/hæv/
he	/hi, i/	/hi:/
her	/hə, ə/	/hə:/
him	/im/	/him/
his	/iz/	/hiz/
is	/z, s/	/iz/
me	/mi/	/mi:/
must	/mast, mas/	/mast/
not	/nt, n/	/not/
of	/ev, v, e/	/vc/
shall	/∫ə1, 1/	/ ∫æ1/
she	/ʃi/	/ʃi:/
should	/ʃəd, ʃd/	/ʃud/
some*	/ma, mm/	/s/m/
than	/%ən, ən/	/% n/ (rare)
that	/3ət/	/}æt/ (rare)
the	/ði/ + vowel	/%i:/
	/%∂/ + consonant	/%i:/
them	/%əm, əm, m/	/%em/
there*	/37/ + consonant	/ð{e}/
	/>jər/ + vowel	/>٤ər/

to	/tə/ + consonant	/tu:/
	/tu/ + vowel	/tu:/
us	/əs/	/\s/
was	/wəz/	\zcw\
were	/wə/ + consonant	/wə:/
	/wər/ + vowel	/wə:r/
who	/hu, u/	/hu:/
will	/1/	/wil/
would	/wəd, əd, d/	/wud/
you	/ju/	/ju:/

* As part of the indefinite article, <u>some</u> is normally unstressed. As an adjective in contrast to <u>others</u> it is always stressed.

'Let me 'pour you 'out some `coffee. /səm/ or /sm/
'Some people don't `like coffee. /sʌm/

There is also an intermediate form of some, pronounced
/sʌm/ but with no stress. It is commonly found as an indefinite pronoun.

Take some for me.
'Let me 'pour you 'out some.

* As a demonstrative adverb, there is always strong, as in He 'wants to 'go 'there /369/.

It should be noted that prepositions like to, from, at, and for retain their strong forms when final, even if they are not stressed. For example:

Where have they gone to /tu:/?
Where's he from /from/?
What are you laughing at /æt/?

Note, too, that certain form words, not normally possessing an alternative weak forms, may show some reductions in their vowel quality when said rapidly.

I /ə/ don't know.
What's your /jə/ name?
I go by /bə/ bus.
Do you know my /mə/ mother?

It may be said that the more rapid the speech the greater the tendency to reduction and obscuration of the unaccented words is.

Let us now conclude our discussion on rhythm. The rhythm of English speech depends very much on the stressed syllables. The stressed syllables of an utterance occur at fairly regular intervals of time. When unstressed syllables intervene, they must be fitted in between the stressed ones.

C H A P T E R III

THE INCIDENCE OF ENGLISH STRESS

The accentuation of English words is very irregular and is a constant source of trouble to the students whose mother tongue is not English. One may almost say that it is not possible to give any certain rules for the position of the stress in the word. This assumption is actually incorrect. Although simple rules for English stress in - cidence cannot be formulated, a study of the factors which govern the word stress and of the exceptions to such rules can be done.

In this chapter only three governing factors of word stress are discussed. The first is concerned with monosyllabic prefixes taking the primary stress, the second with the influence of suffixes on word stress, and the third with the association between the vowel quality and the syllable taking the primary stress.

1. Monosyllabic Prefixes and Stress

Monosyllabic prefixes may occupy any one of the four positions with reference to stress. They may:

- a. Precede the pre-kinetic 1) stress in a double-stressed word, e.g., pre'vari cation.
- b. Take the pre-kinetic stress in a double-stressed word,
 e.g., 'conden'sation.
- e.g., in vesti, gate.

¹⁾ The term 'kinetic', coined by Roger Kingdon, is equivalent to 'primary'.

d. Take the kinetic stress in a single-stressed word, e.g., `substitute.

Of these four, only the last will be discussed. The first three positions are not directly concerned with our subjects, and therefore irrelevant. The fourth position, on the other hand, is a good hint to denote the position of the primary stress.

According to Roger Kingdon, the presence of a primary stress on a monosyllabic prefix may be due to any of the following causes:

- a. The direct addition to the monosyllabic prefix of a truncated element formed from a Latin Perfect Participle, e.g., -cess, -dict, -duct, -ject,-pact, -plex, -script, -tract, -verse, and numerous words terminating in -ate, -ete, -ite, -ute.
- The presence of a similar element which has been modified in its passage through French, e.g., -feit,
 -fit, -trait.
- c. In certain disyllables, the shifting of the primary stress from the root to the prefix in order to distinguish the noun form from the verb, e.g., con,vict, dis,card, object.
- d. The general tendency in English towards first-syllable stress, which seems to express itself sporadically, and more particularly in trisyllables, e.g., 'ecstasy, 'recipe, 'several.

List of Primarily Stressed Monosyllabic Prefixes.

²⁾ Roger Kingdon: The Groundwork of English Stress.

```
ab-(a-)
                                               absence
   `abdi,cate
                  `ab, ject
                                `abs.cess
                  `abs.tract.
   `abso lute
ad- (a-, ac-, af-, ag-, al-, an-, ap-, ar-, as-, at-)
                                               accurate
                   `ac,cess
                                `accident
   accent
                                `adequate
                                               `ad, junct
                   `ad,ept
   `ad,dict
                                adverb
                                               `ad verse
                   `adult
   `admirable
                                `affable
                                               `affluence
                   advo, cate
   `adver tise
                                               applicable
   `al,ly
                   `aggre,gate
                                `appe,tite
                                               `aspi,rate
                                `arrogant
   applicant
                   aspect
                   `attri,bute
                                `ave nue
   `assonance
al- (a-, ar-)
                                               `apri,cot
                   `algebra
                                alkali
   alcohol
                                `alli,gator
   `azure
                   arsenic
an-(am-, a-)
                                `ano,nym
                                               apathy
                   `anarchy
   amnesty
   atheism
                   atom
<u>con-</u> (co-, col-, com-, cor-, coun-)
                                               `col,lect
                   `cognitive
                                col,league
   cog nate
                                               `comfort
   `college
                   `com, bat
                                com, bine
                                `commissary
                   `commerce
                                               common
   `com, ment
                                               `comparable
                                company
   com, mune
                   `com, pact
                   `compen, sate `competent
                                               `complement
   `compass
                   `compli, cate `compliment
                                               composite
   com, plex
                   `compro,mise `computable
                                               `concen trate
   `com, press
                   `conference `confidence
                                               `con,fine
   `con, duct
                                               conquer
                   `congre,gate `con,gress
   `con,flict
                                               `constant
                   `consequence `con,sole
    `conscience
```

`consti,tute	'con tact	contemplate	con tent
`con,test	con text	`con, verse	`con, vict
con, voy	`corre,late	council	councel
<u>de-</u>			
debit	`de,crease	`dedi,cate	de,fect
deference	`de,file	definite	`dele,gate
delicacy	`demon,strat	e deputy	desert
desperate	'destiny	`de,tail	`devi,ate
`de,tour	devas tate		
<u>dis-</u> (de-, di-,	dif-)		
differ	difficult	`di,gest	diligent
'dis,card	`discipline	`dis,cord	dis count
distance	`dis,trict		
	. 31.		
en-(em-)			
embryo	emperor	emphasis	'em pire
	`emperor	`enve,lope	`envy
energy	eugrue	enve, rope	envy
<u>ex</u> = (e-, ef-, es	ı -)		
		_	
`edit	edu cate	effort	e,ject
elegant	`ele,vate	eloquence	emigrant
eminence	`es,cort	evidence	es, say
`excellency	excrement	`exe,cute	`exer,cise
`ex,ile	`exit	'ex,pert	`ex,port
`exquisite	`ex,tract		
<u>in</u> - (il-, im-, i	ir-, ig-)	. , ,	
`immi,grate	`im,pact	`impli,cate	`im,port
impulse	`incident	in,cline	in.dex
`indi,cate	`inference	influence	`inno, vate

	inquest	in sect	instance	instinct
	`insti,tute	instrument	in, sult	injury
	inventory	`irri,gate	ignorance	impotence
	infamous	infant	infinite	innocence
	invalid	irritably	ìrri,tate	
	1111 4234			
<u>ob</u> -	- (oc-, of-, o	p-)		•
	object	obstacle	obstinate	occupant
	occu,py	offer	oppor, tune	`opposite
	obligatory			·
pe:	<u> </u>			
	`perfect	`per,fume	perish	permanent
	permit	`perse,cute		
\mathbf{pr}	3 			
2	<u>_</u>			
	`predi,cate	preface	`preferable	`preference
	`predi,cate `pre,fix	`preface `pregnant	`preferable `prejudice	`preference
	-	_	_	premier
	`pre,fix	`pregnant	prejudice	`premier `pre,text
	pre,fix	`pregnant `present	`prejudice `president	<pre>`premier `pre,text `property</pre>
se	<pre>pre.fix presence pro.noun pros.pect</pre>	`pregnant `present `proper	`prejudice `president `prosti,tute	<pre>`premier `pre,text `property</pre>
se·	pre,fix presence pro,noun pros,pect	<pre>pregnant present proper pro,test</pre>	<pre>prejudice president prosti,tute Protestant</pre>	<pre>premier pre,text property proberb</pre>
<u>se</u> -	pre,fix presence pro,noun pros,pect	`pregnant `present `proper	`prejudice `president `prosti,tute	<pre>`premier `pre,text `property</pre>
<u>se</u>	pre,fix presence pro,noun pros,pect	<pre>pregnant present proper pro,test</pre>	<pre>prejudice president prosti,tute Protestant</pre>	<pre>premier pre,text property proberb</pre>
	pre,fix presence pro,noun pros,pect	<pre>pregnant present proper pro,test</pre>	<pre>prejudice president prosti,tute Protestant</pre>	<pre>premier pre,text property proberb</pre>
	pre,fix presence pro,noun pros,pect secret several	<pre>pregnant present proper pro,test</pre>	<pre>prejudice president prosti,tute Protestant</pre>	<pre>premier pre,text property proberb</pre>
	pre,fix presence pro,noun pros,pect secret several b- (suf-)	pregnant present proper pro,test secretary	`prejudice `president `prosti,tute `Protestant `separate	`premier `pre,text `property `proberb `separable
	pre,fix presence pro,noun pros,pect secret several b- (suf-) subject	pregnant present proper pro,test secretary	prejudice president prosti, tute Protestant separate	`premier `pre.text `property `proberb `separable

surname `surplus `surface `surmise `sur vey <u>syn-</u> (sy-, syl-, sym-, sys-) svllabus symbol syllable `symbo,lize `symphony Symptom sympa thize `sympathy syndi cate `syn tax system `synonym trans- (tran-) `tran,script `transfer tranquil transit transitive `trans.port

2. The Influence of Suffixes on Stress

The stress of polysyllabic words is difficult to guess. It is largely controlled by the suffixes attached to the words. The suffixes may take the stress themselves or they may throw the stress onto one of the two syllables preceding them. With some suffixes, the stress is fixed very rigidly, while with others the stress depends upon the number of the syllables preceding.

The students' problems are generally concerned with the kinds of suffixes which influence the stress of the words. Take, for instance, the word 'democrat, which has initial stress. If the suffix -acy is added to it, the stress of the word is shifted to the second syllable. If the suffix -ic is added to it, the stress is on the third syllable. Thus,

'demo crat de'mocracy 'demo'cratic

Some other examples are:

photo,graph pho tography 'photo graphical
benefit be neficent 'bene ficial

The best solution of the problem is to give the student a complete list of suffixes which influence the stress of the words. After that we bring problematic suffixes into the students' attention.

The following list is taken from Roger Kingdon's The Groundwork Of English Stress. To comply with the students' need, the list has been modified in some way. Only suffixes which have a high frequency of occurence are included. They are listed in alphabetical order with as many examples as possible. Hopefully, the list will be of special value to the students both as a guide and reference.

List of Suffixes Influencing the Primary stress.

References:

- 2: Suffixes throwing the primary stress two syllables before them.
- 1: Suffixes throwing the primary stress one syllable before them.
 - 0: Suffixes having no influence on the primary stress.
 - 1: Suffixes taking the primary stress on their first syllable.
 - 2: Suffixes taking the primary stress on their second syllable.

-able (-ableness, -ably, -ible)

breakable capable changable `bearable 0: lovable drinkable movable `eatable suitable workable payable readable ad'visable a'greeable ac'ceptable a dorable be lievable de sirable en joyable a`vailable horrible credible `feasible `probably

Exc.: dis'able, en'able, un'able, admirable, comparable, lamentable.

-ability (-ibility)

'amia bility 'capa'bility 0 : 'affa bility 'disa'bility 'muta'bility 'insta' bility ac'cepta'bility 'suita' bility 'proba'bility re'lia bility res'pecta bility a'vaila bility 'irrita bility 'credi'bility 'applica bility im'possi bility 'feasi bility 'possi bility

-acy

O: curacy legacy lunacy privacy
accuracy adequacy delegacy delicacy
intimacy literacy in accuracy in adequacy

-age

O: bondage manage tonnage breakage carriage usage per centage

-ageous

1: cou'rageous ,out'rageous 'advan'tageous 'disadvan'tageous

-ain

comp lain con tain abs tain at'tain 1: de tain dis'dain ex'plain main'tain ob'tain re gain re main res'train sus tain 'enter'tain re'tain

-aire

1: 'doctri'naire 'millio'naire 'questio'naire 'soli'taire com'missio'naire

-<u>al</u>

O: tribal pro'posal personal musical re'moval 'disap'proval

-ality

fa tality du ality ,bru tality 1: ,lo cality ,for mality le'gality ,neu trality 'abnor'mality ,men tality 'natio'nality 'hospi tality 'cordi'ality o'rigi nality po'tenti'ality 'sentimen'tality 'individu'ality 'artifici ality 'spiritu'ality

-ance (-ant, -ancy, -antly)

grivance ac ceptance `clearance ac quaintance ad mittance ac cordance an novance ap'pearance al lowance a voidance dis turbance as'surance in surance re'membrance en durance re'sistance a bundant re'semblance as'sistant at tendant ac countant de fendant con sultant con'testant de pendant ex 'pectant im portant

Exc.: ignorance, maintainance, applicant, disputant, sig nificant.

-anity

1: hu manity in sanity ur banity

-arian (arianism)

1: ,bar barian ,u'tili tarian 'parliamen tarian gram marian ,li brarian ,hu'mani tarian

-arity

1: bar barity 'popu larity 'regu larity 'simi larity 'singu larity 'soli darity 'famili arity 'peculi arity

-ary

O: arbitrary customary honorary legendary literary necessary ordinary secondary secretary seminary solitary i maginary

Exc.: adversary, salutary.

-ate (In verbs of two syllables, it takes the stress itself)

1: de'bate in flate mi grate
nar rate lo cate ro tate
trans late se date

In verbs of more than two syllables it throws the stress two syllables before.

-2: alter, nate ani, mate hesi, tate
indi, cate contem, plate corre, late
inti, mate ope, rate separate
stimu, late ap propri, ate de liberate
e laborate ap proxi, mate

-ative (-atively, -ive)

O: curative formative ac cusative con servative con sultative de clarative de rivative educative com municative legislative qualitative ad ministrative

Exc.: locative, narrative, rotative, sedative, al ternative, de monstrative, inter rogative.

-crat `plito,crat demo, crat 0: auto, crat -cracy -1: au tocracy bu reaucracy de mocracy -culture 0: agri, culture horti, culture viti, culture -dom O: boredom freedom kingdom -ed (-edly, -edness) followed raised rained 0: rubbed waited forcedly blessedness pre paredness -ee/-een /-eer 1 : 'pa'yee 'trus'tee 'absen'tee 'addres'see ex'ami nee 'refe'ree 'divor'cee 'employ'ee 'pio'neer 'volun'teer 'six'teen 'engi'neer freshen em bolden deaden 0 : broaden `wooden en lighten golden silken -ence (-ent) difference inference -2 : conference deference `prevalence reference confident preference `excellent resident licence `sentence - 1: absence essence agent current absent accent `patent present decent `parent ex istence urgent student `silent

oc'curence ap'parent com'ponent de tergent in'sistent de pendent op ponent res'pondent -er bomber player robber `weaver `officer `prisoner in terpreter -erity ,dex terity ,pos terity pros perity se verity ,sin cerity 'insin'cerity -ese 'Bur'mese 'Chi'nese 'Japa'nese 'Java'nese 'Bali'nese -ess 0: duchess hostess `actress mistress murderess `stewardess ad venturess -ete de lete 1: com'plete com'pete 'incom'plete con'crete -ette ,bru nette 1: 'ciga'rette 'kitche'nette 'nove'lette -<u>ful</u> (-fully, -fulness) `artful awful careful doubtful 0: `fearful `faithful fruitful harmful hopeful helpful `joyful ****painful `peaceful `beautiful de`lightful

```
-gram (-graph)
                                         `kilo,gram
                        dia gram
 0 : `centi,gram
                        `tele,gram
                                         `homo graph
       `milli,gram
                        photo, graph
       para graph
-grapher (-graphy, -graphist)
- 1: ,bi ographer
                         pho tographer
                                          ste'nographer
       'lexi'cographer
-\underline{fy} (-fier)
                                         clari,fy
                        `beauti,fy
 0: ampli,fy
                                         `noti,fy
       `glori,fy
                        horri fy
       quali, fy
                        `magni fier
                                         `puri fier
       `stupe,fier
       per'soni, fy, so'lidi, fy.
Exc.:
-ial (ialism, -ialist, -ialize, -ially)
                        `cordial
                                         partial
       burial
                                          co lonial
                         ad'verbial
       `trivial
                                          pro'vincial
       fi'nancial
                        im'partial
                        'cere'monial
        re'medial
-ic (-ics, -ical, -ically, -icize,-icism)
     `basic
                        logic
                                          music
-1:
                        topic
                                         physics
       `public
                        fa natic
        dra'matic
                                          sym`bolic
                        'melan' cholic
                                         po litical
       'ener'getic
                        `chemical
                                         `lexical
        rhe torical
       `medical
                        `practical
                                          typical
                                          dra matically
        gram'matical
                        fa`naticism
```

Exc.: Catholic, Arabic, lunatic, politic, politics.

-ican re publican `Anglican Mexican -1: `publican Vatican A merican -ician mu`sician 'elec'trician 1: ma`gician 'poli'tician -icity .du plicity pu blicity 1 : com plicity 'authen' ticity 'eccen' tricity sim plicity -id humid -1: fluid frigid horrid liquid orchid rapid `solid `stupid timid valid splendid -idity , hu midity ra pidity fri gidity stu pidity so lidity va lidity -ience (-ient, -iency, -iently) conscience `patience - 1 : `audience ancient con'venience ex'perience ef ficiently o`bedient im'patient suf \ficiency -iety va riety so ciety an xiety 'noto'riety -ility fra gility fer tility 1: fa cility 'immo bility ,mo bility sta bility

```
-ion (-ionable, - ionalize, -ionary, -ional, ionalism)
                       caution
                                          champion
      action
                       million
                                          mission
       mention
                                          `question
       nation
                       passion
                                           af fection
       `section
                       union
                        com pletion
                                           cre ation
        com panion
                        dis'tinction
                                           ex pansion
        dic tation
       fictional
                                          `unio,nize
                       regional
       actionable
                       `nationa,lize
                                          dictionary
        pro fessionalism
-ior
                        senior
                                           ex terior
-1:
       junior
        in ferior
                         in terior
                                           su perior
-ious
                                          `conscious
- 1 : `anxious
                        cautious
                                          glorious
       curious
                        `envious
                                          `precious
       gracious
                        obvious
                                          am bitious
                        serious
       `previous
                        in genious
        de licious
                                           me lodious
        re ligious
-ique
                                           phy sique
        an'tique
                         o'blique
       tech nique
                                           'Mozam' bique
                        u'nique
-ish
                                          feverish
                        selfish
  O: childish
                                          `devilish
                        boyish
       yellowish
-ite (words of more than two syllables)
                                           definite
                        composite
- 2 : opposite
```

hypocrite `infinite `favourite dynamite `para, site appe tite `satel,lite -ity`dignity density brevity ****quantity `quality `enmity com plexity ce lebrity ab surdity in tegrity i dentity ex tremity 'uni versity sin cerity -ivity fes tivity cap tivity activity 1: 'produc'tivity 'objec'tivity pas'sivity 'subjec'tivity 'sensi'tivity 'rela'tivity -ize criti, cize `colo,nize rea,lize `memo,rize huma, nize `drama, tize `recog, nize `standar,dize orga, nize -loger (-logist, -logize, -logous, -logy, logism) a pologize ,bi ologist as'trologer 'pharma'cologist mor phology a'nalogous 'toxi cologist 'crimi'nology -less (-lessly, -lessness) `careless bloodless `aimless 0: hopeless `endless `friendless motionless merciless meaningless re lentlessly numberless un less, 'neverthe less.

Exc.:

-ment movement `judgment basement 0: a'greement `payment a'chievement com'mitment ar rangment a partment argument en largement en gagement measurement `government management -mental 'docu'mental 'depart'mental , seg mental 'instru'mental 'monu mental 'funda'mental ex'peri mental 'senti'mental -meter (-metry) ba'rometer ,di ameter - 1 : `symmetry ther mometer ge ometer ,hep tameter -mony hegemony `matrimony 0 : ceremony acrimony testimony patrimony -monial (monic, -monious) 'hege'monic 'matri'monial 1 : 'cere'monial 'patri'monial -00 /-00n 'ta'boo 'sham'poo 1 : 'bam'boo ba boon bal loon 'tat'too 'panta'loon la goon ,har poon -oria (-orial, -orian, -orious, -orium) me morial 1: vic toria .doc'torial tu`turial sec'toral pic'torial la borious no torious his torian 'crema torium

'audi torium

'terri'torial

-ority ma jority mi nority au thority pri ority so nority seni ority 'inferi ority 'superi'ority -our `flavour `colour armour -1: honour `harbour `glamour `neighbour humour labour odour rumour -ous humorous `glamorous 0: `amorous nervous `marvellous famous murderous -phone micro, phone `saxo, phone 0: gramo, phone `tele, phone -some `lonesome `fearsome `handsome 0: troublesome -sor `censor `scissors `sponsor con fessor com'pressor ag gressor pos'sessor de'pressor op pressor suc cessor pro'fessor -sure

leisure

treasure

`closure

`pleasure

-1:

measure

com'posure

dis closure `pressure as sure, en sure, in sure. Exc.: -teen 'four teen 'six'teen 1: 'thir'teen 'eight'teen 'seven'teen -tude `apti,tude - 2 : `alti,tude `ampli,tude `longi tude 'grati, tude `atti tude si mili, tude so lici, tude -tudinal 'longi'tudinal 'multi'tudinal 1 : 'lati'tudinal -ture (tural) future gesture -1: capture `lecture `mixture `juncture `puncture `picture `posture `structure ad venture de'parture structural 'super'natural ma'ture, 'premature, 'architecture. -ual ha bitual annual - 1: `actual . equal `gradual casual ac'centual `mutual manual bi lingual con'tinual e'ventual -ward /-wise forward `clock,wise 0: `backward `westward other, wise homeward `like,wise contrari, wise

Since the suffixes are listed in alphabetical order, it is necessary to classify them according to the positions of the primary stress. It will assist the students in learning the rules.

1. Suffixes having no influence on the primary stress (0).

-able	-culture	-gram	-ness
-acy	-dom	-hood	-ous
-age	-en	-ible	-phone
-al	-er	-ish	-some
-ance	-ess	-ize	-ship
-ant	-ful	-less	-ure
-ative	-fy	-ly	-ward
-crat	-graph	-ment	-wise

2. Suffixes throwing the primary stress one syllable before them (-1).

-cidal	-cracy	-grapher	-graphy
-ial	-ic	-ical	-ican
-id	-ience	-ient	-ion
-ior	-ious	-ity	-loger
-logy	-meter/metry	-our	-sor
-sure	-ture	-tural	-ual

3. Suffixes throwing the primary stress two syllables before them (-2).

-ence/-ent -ate -ite -tude

4. Suffixes taking the stress on their first syllable (1).

-ain -aire -ate -ality
-anity -arian -arity -cultural

- ee	-eer	-ese	-ician
-icity	-idity	-iety	-ique
-ivity	-00	-oon	-orial
-ority	-teen	-tudinal	

5. Suffixes taking the stress on their second syllable (2).

-ability -ionistic -uality

3. Vowel Quality and Stress

Some linguists think that there is a relation between vowel qualities and word stress positions. Some other linguists, however, reject this idea. In this chapter we will discuss the opposing ideas of two linguists only, A. C. Gimson³⁾ and Daniel Jones⁴⁾.

According to Gimson, communication involves at least two aspects, i.e., the production stage and the receiving end. At the production stage, stress is realized with greater intensity which is brought about by an increase of air-pressure from the lungs. At the receiving end stress gives an objective impression of loudness. The two aspects are closely related to each other.

This greater intensity is not in itself usually the most important factor in rendering a sound prominent in English. As shown in Chapter II, pitch, quality and quantity also contribute to the prominence of a sound.

Moreover, he says that, all other things being equal, some sounds appear by their nature to be louder or

³⁾ Gimson: An Introduction to the Pronunciation of English.

⁴⁾ Daniel Jones: An Outline of English Phonetics.

more sonorous than others. Consequently some phonemes in English are particularly associated with unaccented situations due to their lack of qualitative prominence and some others are associated with accented situations by virtue of their qualitative or quantitative prominence.

He states that /ə/ almost always occurs in unstressed syllables. /i, u/, though both may receive strong stresses, have a high frequency of occurence in unstressed syllables. /e, æ, o, \wedge /, the long vowels and diphthongs, when occuring in weak positions, are pronounced in reality with secondary stress.

Jones, however, is not satisfied that this view is a correct one. /e, æ, ɔ, \(\)/ are undoubtedly more prominent than /ə, i, u/, but this does not necessarily mean that they derive their prominence from stress, namely from a special push of the diaphragm. He agrees that /e, æ, ɔ, \(\)/, the long vowels and diphthongs have considerable prominence by reason of their inherent sonority, and that if /e/ and /ə/ are uttered with what the speaker judges to be equal push from the diaphragm, /e/ is clearly audible at a greater distance than /ə/ is. But there is nothing to prevent them from being unstressed, i.e., uttered with a very weak push from the diaphragm.

According to him, the most that can be said in favour of the theory is that /e, x, x, x, x, are generally utter ed with greater jaw movement and a slightly greater length than /a, i, x, and that the long vowels and diphthongs have considerable prominence by reason of their length.

Thus Gimson considers the second syllables of the following words to have secondary stresses, while Jones does not.

'abstract 'schedule 'concrete
'hiccup 'insect 'mundane

All we can say about these two opposing views is that both have their own way of interpretation. Jones sticks to his opinion that a stressed syllable must involve a special push of the diaphragm. He sees stress in terms of its production. Gimson, on the other hand, takes into account the accoustic effect of stress on the listener. He believes that, like stress, sonorous vowels and diphthongs are perceived as greater loudness at the receiving end.

Since the object of this paper is to throw some light on the positions of the primary stress in English words, a lengthy discussion on secondary stress is unnecessary. What is then the purpose of bringing Gimson's theory into our attention?

When the writer studied Gimson's theory, it gradual—
ly occurred to him that there was actually a close asso—
ciation between vowel qualities and primary stress in words.
The writer noticed that the primary stress of English words often occurred on the syllables which had strong vowels.

Thus, in the light of Gimson's theory, we can actually go further and say that /e, æ, 0, $\wedge/$, the long vowels and diphthongs are often associated with the primary stress of English words. This assumption has not been proved yet, but the writer's experience in learning English seems to confirm it. Specifically the assumption is as follows:

- 1. /a/ is always weak and therefore unstressed.
- /i, u/ are either weak or strong. In most cases they occur in unstressed positions.

- 3. /e, æ, α, Λ, i:, α:, α:, α:, a:/ are almost always strong. They often occur in strongly stressed syllables.
- 4. /iə, uə/ are either weak or strong.
- 5. /ei, ou, ai, au, Di, £a, Da/ are almost always strong.

Let us take some examples and see if our assumption works.

-alone /ə`loun/

: /a/ is always weak. /ou/ is almost always strong. The stress is on the second syllable.

-answer / a:nsə/

: /a:/ is almost always strong. /ə/ is always weak. The stress falls on the first syllable.

-ambush /æmbu /

: /æ/ is almost always strong. /u/ is either weak or strong. The stress is on the first syllable.

-hospital / hospital/ : /0/ is almost always strong. /i/ is either weak or strong. /ə/ is always weak. The stress falls on the first syllable.

Other examples are:

awake /a`weik/ because /bi ko:z/ believe /bi li:v/ number / namba/ basket / ba:skit/ baby / beibi/

develop /di`veləp/
imagine /i`mædzin/

memory / memari/
permanent / pa:manant/

It is to be noted that those vowels which are usually weak, notably /i/, may be strong under the influence of powerful suffixes. /i/, for example, receives a primary stress in 'contra'diction, 'poli'tician and no'bility.

The strong vowels, as we can see, only receive secondary stresses.

In the absence of influencing suffixes our assumption can best be applied. It may help the students in determining the positions of the primary stress in words. In addition, it may help the students in remembering the position of the primary stress.

To conclude our discussion on the incidence of English word stress, it is wise to warn the students that the guiding rules suggested here do not cover the whole complex problems of English word stress. The rules, for example, do not explain the fact that words like syntax, insect, hiccup are stressed on the syllables which have weak vowels.

We can only say that language is arbitrary and that rules in language are always subject to exceptions. It is always good to learn the stress of each word individually by consulting a reliable dictionary.

CHAPTER IV

THE TEACHING OF ENGLISH WORD-STRESS

It is a well-known fact that when the native language facility involves language patterns similar to the new ones to be learned, there will be either facilitation or interference in learning, depending of the degree of functional similarity. If the patterns to be learned are not the same and will not function as the same in the new language, there will be maximum interference.

In the process of learning a new language, interference is more of a hindrance than a help. The native language habit usually distorts the new one. As a result, the new patterns have to be learned as a new language habit.

Unlike English, stress in Indonesian is not phonemic. According to A.M. Almatsier 1) nearly all syllables in Indonesian words can be stressed or unstressed without affecting the meaning of the words. The word malam (meaning evening), for example, can be stressed initially or finally depending on the speaker's feeling. But in normal speech, Indonesian words are stressed on the penultimate syllables. Examples are:

`saya ja`waban

makan meng`apa

nasi me`mungut

tadi se`tuju

sedang menga`takan

¹⁾ A. M. Almatsier: How to Master Indonesian Language.

The native language habit of Indonesian students is generally held responsible for the many faulty stressings found in their speech. Indonesian students are usually ignorant of the fact that English stress is phonemic in nature and that incorrect stressing may cause misunder - standing. They see English stress in terms of their native language habit and put the stress of English words where-ever they wish.

A. Teaching Techniques

To overcome the problem, the following techniques of teaching English word stress are recommended. It is to be noted, however, that the techniques suggested here are of general nature. They do not deal with specific problems of English misstressed words. They are also tentative, since the writer practically has no experience in teaching English.

1. Identification

The first activity we do when learning a new language is that which is concerned with our ear, that is, we listen. Understanding and articulating the new language come later. Likewise, the teaching of English stress should begin with a model of perception.

By perception is meant the ability to identify the positions of English stress in words. The teacher says a number of words, and asks the students to identify the stress patterns which they hear. The students' response should consist only of <u>first</u>, <u>second</u>, or <u>third</u> depending on the positions of the stress in the words.

Comparing one stress pattern with another can also be done. The teacher begins by giving one stress pattern

orally to the class some three times. Then he adds some other stress patterns of the same and of different kinds. He asks the students after each example whether it is the same as or different from the first. At first some will be confused and will say it is different when it is the same. With a little practice the responses will become uniform, indicating that the class can identify the patterns.

When the students have trouble indentifying the examples, draw their attention to the element or feature that they are missing. The teacher can use such props as lines, dots on a scale, numbers and typographical devices like capital letters, italic type, etc.

2. Imitation

Imitation plays a very important part in learning English word stress. But we must realize that accurate imitation is impossible so long as accurate perception is not achieved. Imitation, then, must be postponed until the students have possessed the ability of identifying English stress patterns.

Like the identification stage, when imitation does not work the teacher should use any means at his command. Such props as capital letters and lines may be quite useful.

3. Rules of English Word Stress

Once the students are able to imitate and remember the examples, the teacher may proceed with the rules of English word stress as depicted in Chapter III. But he must be selective in presenting the rules, depending on the students' condition and mastery of the language.

The phonemic nature of English stress and the general tendency in English word stress should also be brought into the students' attention. If possible the exceptions of the rules should also be given.

4. Wide Exposure

One does not teach everything about the stress system of the language. This would be pedantic and would hinder more than it would help. We must not expect the students to overcome the problems of English word stress once and for all because we have explained them.

The students should be widely exposed to the new stress system. It must be practiced again and again until the desired result is achieved. In some cases as many as fifteen or twenty separate practice may be required to mag ter the problems.

For exercises in English word stress and rhythm, I shall refer to an excellent workbook, <u>Living English Speech</u>, by W. Stannard Allen.

5. Good Models

Throughout the teaching-learning activity of Eng - lish word stress, the teacher should provide good models. It is a fact that poor models produce poor imitation. Good models do not guarantee good imitations, but they are necessary to permit good responses.

6. Dictionary

A dictionary is indispensable in any language learning. Ideally the students are obliged to learn the stress of each word individually since English word stress is high ly irregular. The teacher's task is to encourage the stu-

dent to use a reliable dictionary in learning English word stress.

B. Problematic Stress

Many students have the tendency to stress the last syllable of words ending in -ute, -ude, -ise, -ize. For example:

criticize instead of criticize gratitude instead of gratitude exercise instead of exercise prosecute instead of prosecute

This tendency is actually understandable because diphthongs and strong vowels are often associated with some sort of strong stress due to their qualitative prominence.

-ive and -ative, which often occur in words of more two syllables, are also problematic. The students usually put the stress of the words bearing these suffixes either initially or finally while actually the new forms are stressed on the same syllable as were the basic words. For example:

re'peat - re'petative

af'firm - af'firmative

con'tribute - con'tributive

repre'sent - repre'sentative

com'municate - com'municative

-ion (-lion, -sion, -tion), -ical, -ity are not subject to any hard rule. The suffixes almost always throw the stress on the syllable immediately preceding. But the

following faulty stressing is often heard. For example:

pro'nunciation	instead of	pronunci ation
dramatic	instead of	dra'matic
expansion	instead of	ex pansion
drama'tical	instead of	dra'matical
iden tity	instead of	i dentity

If we examine the words in the examples above, we can actually simplify the rule and say that almost all of them have what we call antepenultimate stress. Thus, the stress is on the third syllable from the end, which results in a classical dactylic rhythm (—— u u). This also applies to words terminating in -tion, -lion, -sion, -cian, -ual, -iar, etc. for these suffixes were pronounced as two syllables until at least the end of the seventeenth century.

Hence, the tendency of English polysyllabic words is toward antepenultimate stress. This tendency is common to a very large proportion of words of more than three syllables. However, it is not to be taken as a reliable guide to the correct stressing of all such words. The students who are not sure of the right way to stress polysyllabic words should ask an English speaker or consult a reliable dictionary.

The shifting of the stress to the antepenultimate syllable is very important for the students to learn. Here are some word-sequences to practice. In order to show the contrast, the secondary stress of the words is not marked.

politics	po'litical	poli tician
democrat	de'mocracy	demo cratic
`personal	per'sonify	perso nality
hypocrite	hy pocricy	hypo critical

mechanism	me chanical	mecha nician
contemplate	con templative	contem'plation
`artifice	arti`ficial	artifici`ality
intellect	in telligence	intel lectual
`family	fa`miliar	famili`arity
telegraph	te legraphy	tele'graphic
`particle	par ticular	particu larity
competence	com'petitor	compe'tition

Here is some more reading practice which is useful for the students in learning polysyllabic words having antepenultimate stress.

mo`notonous	no'bility	sig'nificant
libe rality	par'ticular	rela tivity
gene'rosity	co`median	psycho logical
ba rometer	ge ography	qualifi cation
ca tastrophe	bo`tanical	adminis'tration
ma'nipulate	gram'matical	exami nation
contra diction	conti ^{nuity}	materia listical
inde pendently	personifi cation	pronunci ation
discrimi nation	repro'duction	mathema tician
af firmative	un`fortunate	pho tography
le'gality	im'possible	un ethical
extra dition	in'terrogate	su perfluous
contra dictory	uni`lateral	circum stancial
exe'cution	illus`tration	substi`tution

CONCLUSION

English stress is very complex. This paper only deals with a small portion of it, that is, the problems of learning English simple-word stress and the tentative suggestions of overcoming the problems.

The native language habit of Indonesian students is responsible for the many faulty stressings found in their speech. In Indonesian nearly all syllables in words can be stressed or unstressed without causing any misunderstanding, since stress is a non-phonemic feature in the language. In English, on the other hand, stress is phonemic. Incorrect stressing leads to misunderstanding.

Some linguists think that there are no rules determining which syllables of English words bear the primary stress. In Chapter III we can see that, although simple rules cannot be formulated, a study of the factors which govern the positions of the primary stress can be done. A fairly complete list of monosyllabic prefixes which usually bear the primary stress and a list of influencing suffixes are given. In addition, we propose a theory saying that the primary stress of English words often falls on the syllables that bear strong vowels.

In the final chapter some tentative techniques of teaching English word stress are suggested. At the first stage, the teacher is expected to begin with perception - and identification of English stress before dealing with imitations. He is also supposed to provide the students with a lot of exercises since mere explanation is not enough. The models of the teacher is also important in learning because poor models produce poor imitations.

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