Typology of Phonetic and Phonological Systems of English and Ukrainian

PHONETIC SYSTEM OF A LANGUAGE PHONEMES

Vowels

Consonants

Monophthongs Diphthongs

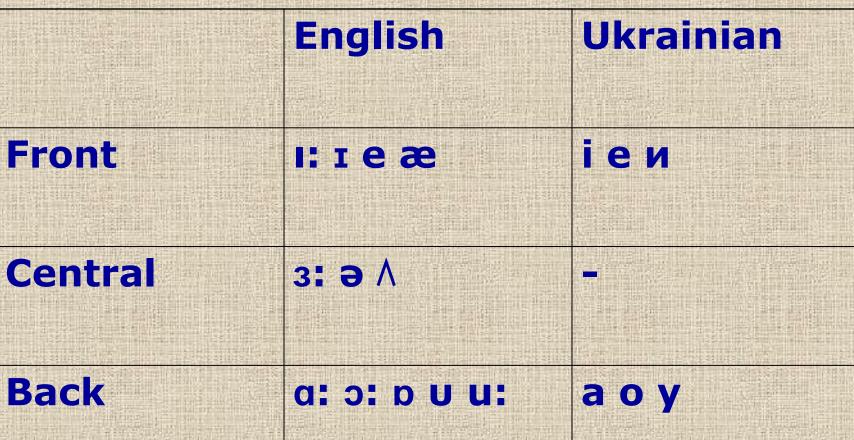
VOWELS in ENGLISH and UKRAINIAN

ENGLISH

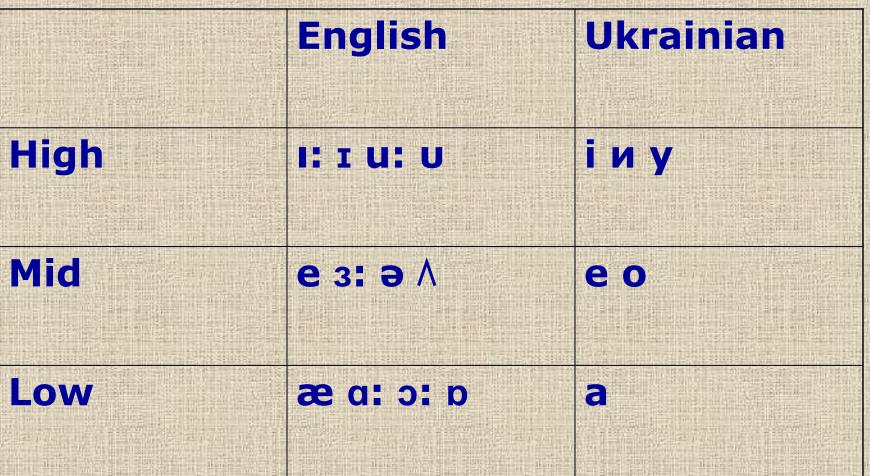
- 20 vowels
- 12 monophthongs [I, I:, e, æ, ɒ, ɔ:,
 - ∧, a:, u, u:, 3:, ə].
- 8 diphthongs
 - [eı, зu, aı, au, ɔı, ıə, ɛə, uə].

- UKRAINIAN
- 6 vowels
- [i, e, u, a, o, y]

CLASSIFICATION OF VOWELS ACCORDING TO HORIZONTAL POSITION OF TONGUE



CLASSIFICATION OF THE VOWELS ACCORDING TO THE VERTICAL POSITION OF THE TONGUE



CONSONANTS IN ENGLISH and UKRAINIAN

In English

In Ukrainian

24

32

GROUPS OF CONSONANTS ACCORDING TO ROLE OF VOICE AND NOISE

Noise

 Voiced
 Voiceless
 Sonorant

 [m, n, r, l, w, j, ŋ],

 [М, Н, Н', р, р', Л, j, В].

GROUPS OF CONSONANTS ACCORDING TO WAY OF PASSING OBSTRUCTION

Plosive Fricative Affricative

[p, t, k, b, d, [f, v, θ, ð, s, [tʃ, dʒ] g] z, ʒ, h, j]

[б, п, д, д', т, [в, ф, з, з', с, [дж, т', ґ, к] с', ж, ш, г, х] ц', д

[дж, дз, ч, ц, ц', дз']

GROUPS OF CONSONANTS ACCORDING TO PLACE OF OBSTRUCTION Ukrainian English: bilabial bilabial labiodental labiodental alveolar alveolar median median back-lingual back-lingual post-alveolar [r, ſ, ʒ] interdental [ð, θ]

dental [д, т, л, л', н]

GROUPS OF CONSONANTS ACCORDING TO PLACE OF OBSTRUCTION

- bilabials: [p ,b, m, w], [п, б, в, м];
- labiodentals: [v, f], [φ];
- alveolar [d, t, z, s, n, l, tſ, dʒ],
- [д', т', н', ц, ц', ч, ш, з, з', дз', дз, с, ж];
- median: [j], [й, p, p'];
 back-lingual [k, g, ŋ], [ґ, к, х];
 glottal [h], [г].

ARTICULATORY TRANSITIONS OF PHONEMES

POSITIONAL

reduction

devoicing (at the end of the words)

prothesis

COMBINATORY

assimilation

dissimilation accommodation haplology dieresis epenthesis metathesis substitution elision

 Assimilation – phonetic process of influencing two adjacent consonants within a word or at word boundaries.

 Result: the articulation of one sound becomes similar or identical with the articulation of the other one.

Assimilation affects:

- the work of an active organ: congress
- the point of articulation: congratulate
- the manner of noise producing:
 - let me as ['lemi]
- the work of vocal cords: gooseberry
- the lip position: <u>twenty</u>
- the position of the soft palate: sandwich

DEGREES OF ASSIMILATION

Assimilation

Complete

articulation of an assimilated consonant fully coincides with that of an assimilating one

Partial

an assimilated consonant retains its main phonetic features and becomes only partly similar in some features of its articulation to an assimilating sound

Intermediate

an assimilated consonant changes into a different sound, but does not coincide with the assimilating consonant

TYPES OF ASSIMILATION

Assimilation

Progressive assimilated consonant influenced by preceding consonant <u>Regressive</u> assimilated consonant influenced by following consonant Double adjacent consonants influence each other

- Devoicing of the voiced consonants at the end of words is not typical of English.
- The English sounds [b], [d], [g] may be partly devoiced in some words.
 Typical of Ukrainian (дід, дуб).

 Reduction – phonetic phenomenon involving vowels in which they change their quality or even fall out when unstressed.

TYPES OF REDUCTION

REDUCTION

QUANTITATIVE reduction of the length of a vowel observed without changing its quality

QUALITATIVE

quality of a vowel is changed **ZERO** omission of a vowel or a consonant

TYPES OF SYLLABLE

Depends on the stress

Stressed

Depends on the | Depends on the initial sound

Covered

final sound

Close

Unstressed

Uncovered

Open

SYLLABLE

Syllables	English	Ukrainian
Open	are, ear	араб
Open	we, play	ми, два
covered	27 %	66%
Close	art, act	ось
	73%	34%

Word-stress

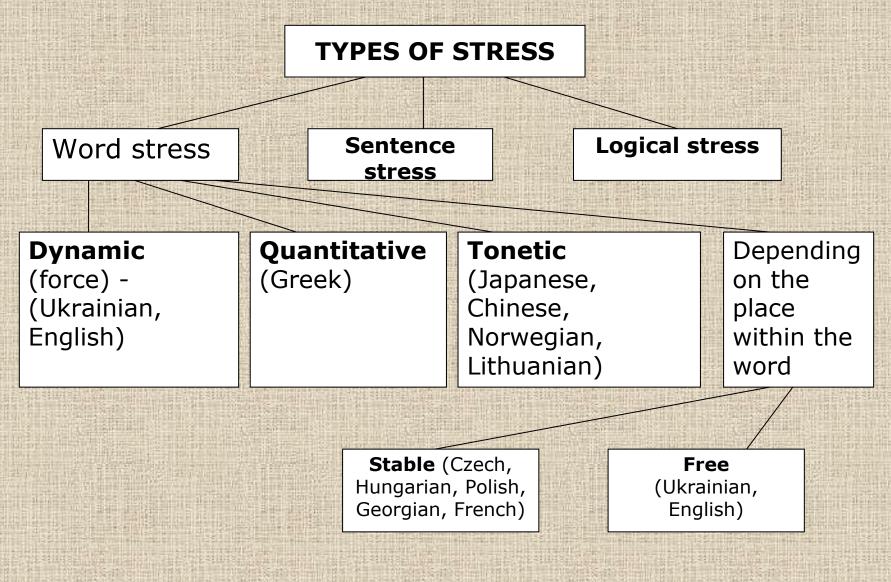
ENGLISH

English word stress - dynamic with a tonetic component. Free. English rhythm stress-timed.

UKRAINIAN

Ukrainian word stress - dynamic with a duration component. Free. Ukrainian rhythm -syllable-timed.

TYPES OF STRESS



TYPES OF WORD STRESS

PRIMARY

English Ukrainian

SECONDARY

English

falls on the syllable separated from the nuclear syllable by one unstressed syllable: pro, nunci'ation, , recog'nition

WORDS WITH TWO STRESSES

ENGLISH

Compound adjectives: '*well-'known, 'absent–'minded*

•Composite (phrasal) verbs '*get 'up, to 'give a'way*.

Words with prefixes: *un-, in-, dis-, sub-, ex-, under-, re-*

UKRANIAN

Optional cases:

за'гально'освітній, ко'ристо'любивий

INTONATION

Intonation – a complex unity of speech melody, sentence stress, tempo, pausation, timbre.