# 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
  [e1, 3U, a1, aU, D1, 10, E0, U0].

#### UKRAINIAN

6 vowels

[i, e, u, a, o, y]

## CLASSIFICATION OF VOWELS ACCORDING TO HORIZONTAL POSITION OF TONGUE

	English	Ukrainian
Front	1: 1 e æ	іеи
Central	3: ∂ Λ	
Back	a: o: p V u:	aoy

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

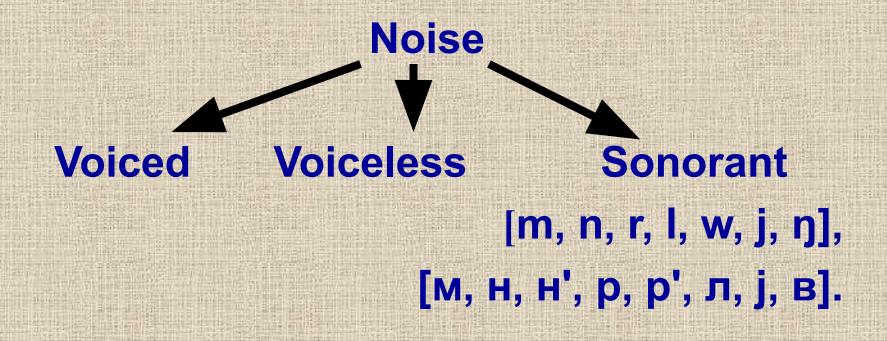
Non-		English	Ukrainian
	High	II I UI U	іиу
	Mid	e 3: ə ∧	eo
	Low	æ a: o: b	a

## CONSONANTS IN ENGLISH and UKRAINIAN

In English
24

In Ukrainian 32

## GROUPS OF CONSONANTS ACCORDING TO ROLE OF VOICE AND NOISE



### **GROUPS OF CONSONANTS ACCORDING TO WAY OF PASSING OBSTRUCTION**

**Plosive** 

Fricative

Affricative

[p, t, k, b, d, [f, v,  $\theta$ ,  $\delta$ , s, [t], d3] g

z, 3, h, j]

[б, п, д, д', т, т', ґ, к]

[в, ф, з, з', с, с', ж, ш, г, х]

[дж, дз, ч, ц, ц', дз']

# GROUPS OF CONSONANTS ACCORDING TO PLACE OF OBSTRUCTION

English:

bilabial

labiodental

alveolar

median

back-lingual

post-alveolar [r, ∫, ʒ] interdental [ð, θ]

Ukrainian

bilabial

labiodental

alveolar

median

back-lingual

dental [д, т, л, л', н]

## GROUPS OF CONSONANTS ACCORDING TO PLACE OF OBSTRUCTION

- bilabials: [р ,b, m, w], [п, б, в, м];
- labiodentals: [v, f], [ф];
- alveolar [d, t, z, s, n, l, tʃ, dʒ],
- [Д', Т', Н', Ц, Ц', Ч, Ш, З, З', ДЗ', ДЗ, С, ж];
- median: [j], [й, р, р'];
- 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 ['lemɪ]
- 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

#### Regressive

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.
- <u>Typical of Ukrainian</u> (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**

Den	ends (	n t	he
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stre	SS		

Stressed

Unstressed

## initial sound

Covered

Uncovered

#### Depends on the Depends on the final sound

Close

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.

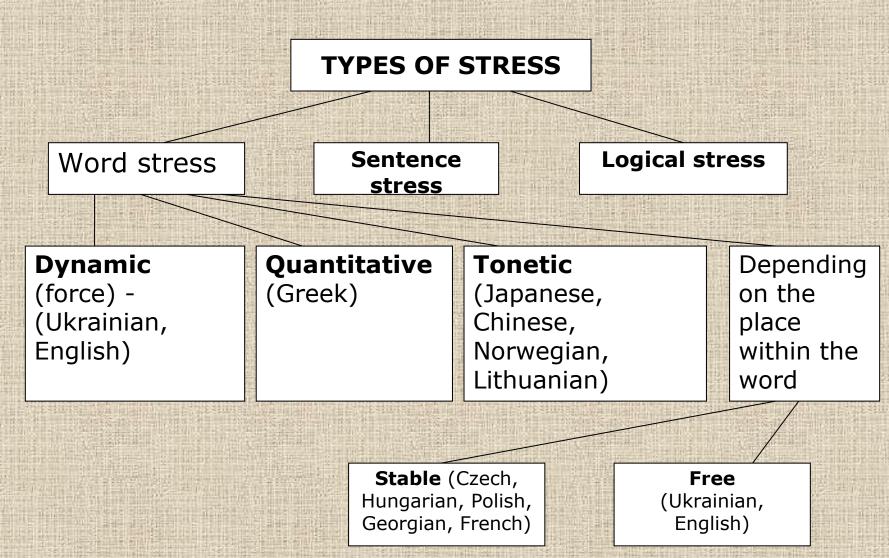
#### **UKRAINIAN**

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.