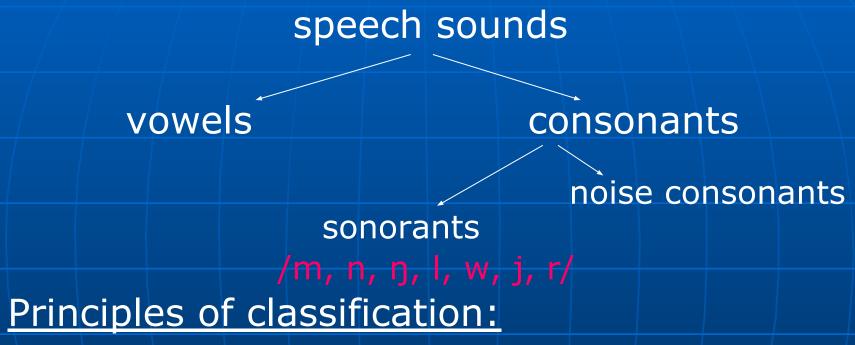
Articulatory Analysis of English Speech Sounds

- Principles of classification of English speech sounds.
- 2. Articulation basis. Differences in the articulation bases of English and Russian.
- 3. Phonetic interference.
- The articulatory classification of English consonants.
- The articulatory classification of English vowels.
- The physical properties of English speech sounds.

Principles of classification of English speech sounds



- 1) The presence or absence of obstruction.
- 2) The distribution of muscular tension.
- The force of the air stream coming from the lungs.

Articulation basis

articulatory habits characteristic of all the native speakers of a language

The main peculiarities of the English articulation basis

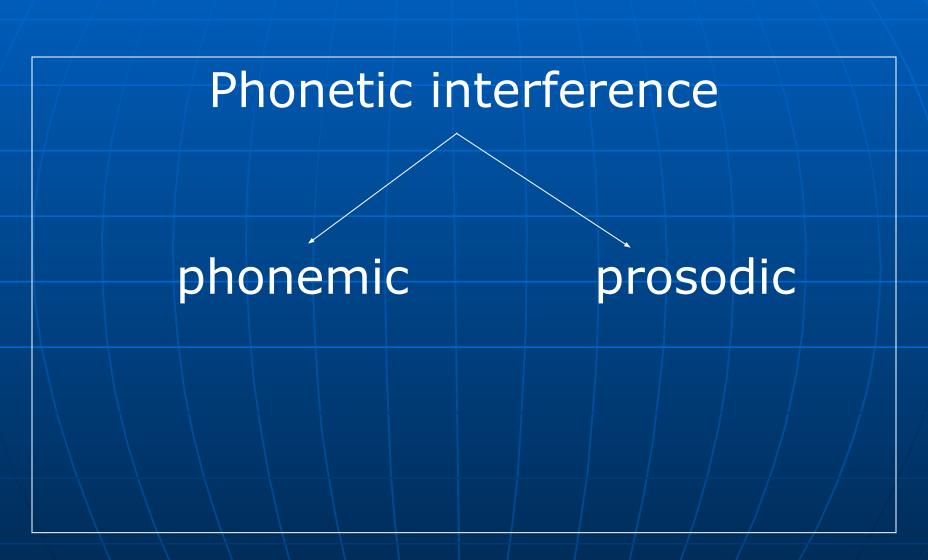
The tongue is broadened, flattened, the tip is slightly drawn back from the teeth.

 Lips are neutral, slightly spread, the upper lip is tense.

Phonetic interference

- Bilingualism the practice of alternate use of two languages by a person in communication.
- Language interference a process and a result of interaction and mutual influence of the language systems which are in contact.
- Phonetic interference the deviation from the phonetic norms of the language.

Phonetic interference



The features of phonemic interference

- the loss of aspiration;
- degree of palatalization;
- place of articulation (e.g. the use of dental /t/ or /d/ instead of alveolar ones);
- shortening the duration of long vowels;
- the pronunciation of English /o, o:, u, u:/ with lip protrusion;
- the use of the wrong allophone of the phoneme (e.g. the dark [ł] instead of the clear [l]).

Prosodic interference

- Prosodic interference involves the use of wrong prosodic patterns:
- The use of falling tones instead of rising ones.
- E.g. Shut the door behind you!

 Good bye!
- The choice of the wrong pitch, stress or rhythmic pattern.

The articulatory classification of English consonants

Principles:

- I. The work of the vocal cords and the force of exhalation.
- п. The active organ of speech and the place of obstruction.
- The type of obstruction and the manner of noise production.

 v. Position of the soft palate.

The articulatory classification of English consonants

Consonants

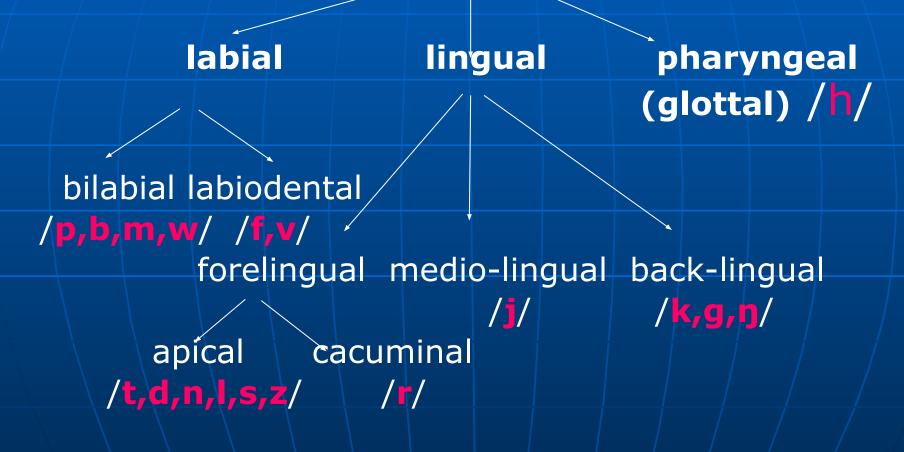
voiced "lenis"

võiceless "fortis"

/h, m, n, n, l, w, j, r/

The articulatory classification of English consonants (active speech organ)

Consonants



The articulatory classification of English consonants (place of obstruction)

Consonants:

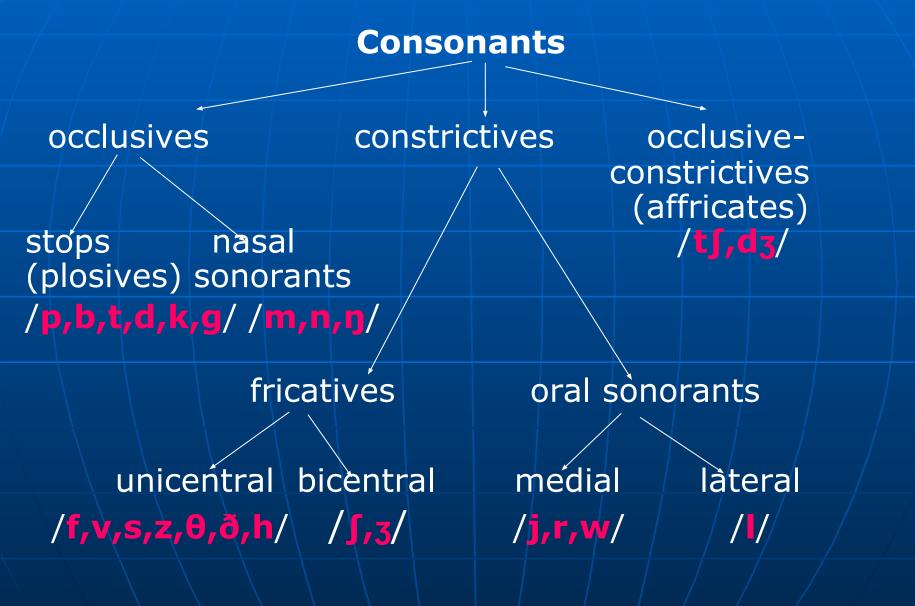
- dental or interdental / 0, 0 / 0
- alveolar /t,d,n,l,s,z/
- post-alveolar /r/
- Palatal /j/
- palatal-alveolar / ʃ,ʒ,tʃ,dʒ/
- Velar / k,g,ŋ/

The articulatory classification of English consonants

Types of obstruction:

- complete closure (occlusion)
- incomplete closure (constriction)
- closure immediately followed by constriction (occlusion-constriction)

The articulatory classification of English consonants (type of obstruction and manner of noise production)

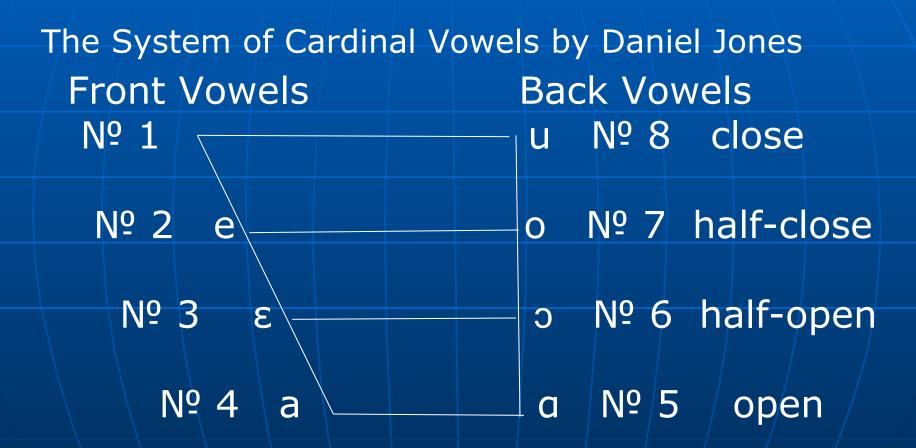


The articulatory classification of English consonants (position of the soft palate)

Consonants

```
oral
/p,b,t,d,k,g,f,ν,∫,3,
s,z,θ,ð,t∫,d3,w,l,r,j/
```

```
nasal
/m,n,n/
```



Principles:

- I. Position of the lips
- п. Position of the tongue
- m. Degree of tenseness and the character of the end of a vowel
- IV. Length
 - v. Stability of articulation

The articulatory classification of English vowels (position of the lips)

Vowels

rounded unrounded /o,o:,u,u:/ /i:,i,e,æ,/\,a:,ə:,ə/

The articulatory classification of English vowels (position of the tongue)

Vowels

(according to the horizontal movements of the tongue)

front

central

back

Vowels

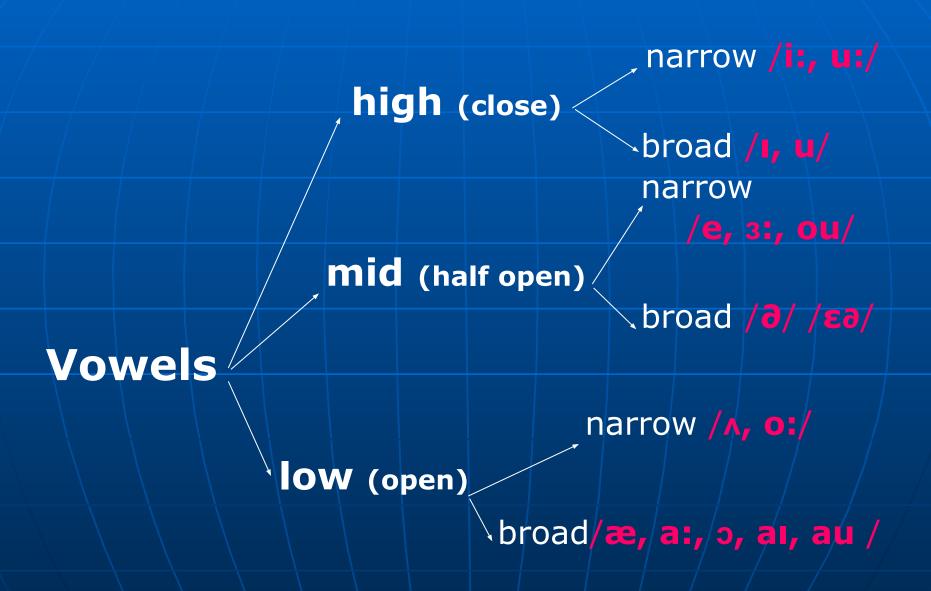
(according to the vertical movements of the tongue)

high

mid

low

```
front
                  front-retracted /1/ /18/
Vowels
                 mixed or central /8, 3:/
                  back-advanced
                    //, u, a:/ /ou, ua/
                  back
                   /o, o:, u:/ /oi/
```



According to the degree of muscular tension

tense

lax

According to the character of the end

free

checked

According to their length

short

long

Factors influencing the vowel length

- 1)The position of a vowel in a word: /si: si:d si:t/
- 2) Word accent: forecast (noun) / fo:ka:st/ forecast (verb) /fo: ka:st/
- 3) The number of syllables in a word: /p:/ in 'verse' and 'university'
- 4) The character of the syllabic structure: open syllable: 'her' /he:/; closed syllable: 'earn' /e:n/
- 5) Sonority: /i:/ is longer than /a:/

According to the stability of articulation

monophthongs

diphthongoids

diphthongs

The physical properties of speech sounds

Frequency – the number of vibrations per second.

Intensity – variations in the loudness of the sound.

Duration – the quantity of time during which the same vibratory motion is produced.