
Theoretical Phonetics

Lecture 2

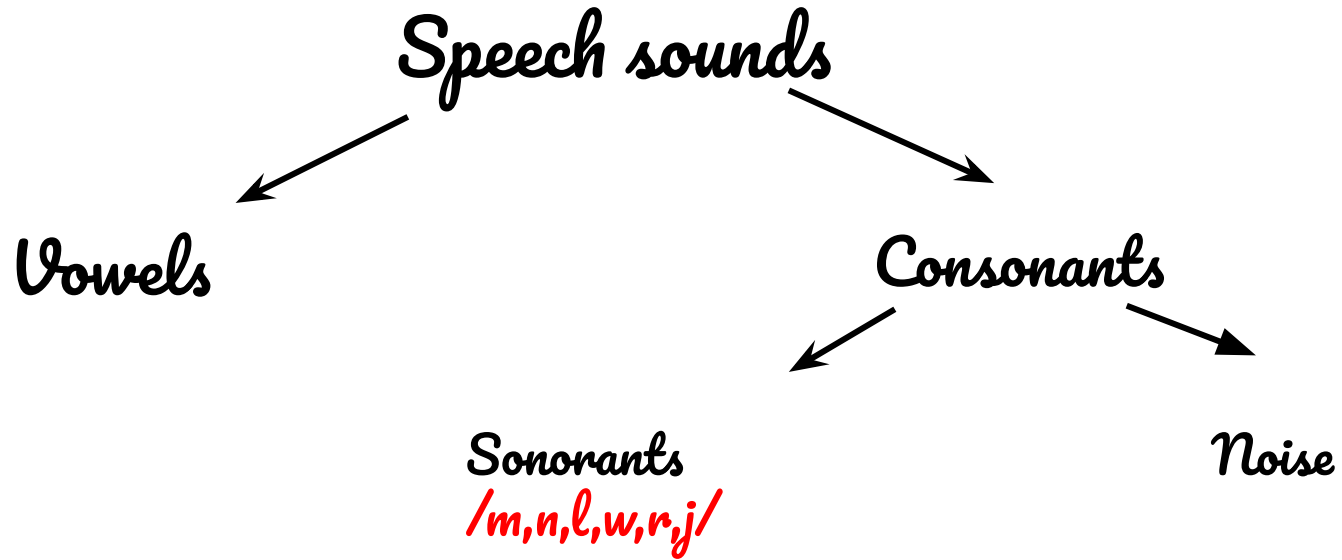
Part 3

Consonants

Articulatory and functional aspects of speech sounds

1. Articulatory aspect of Speech sounds
 2. Principles of Classification of Consonants
-

Principles of Classification of Speech sounds



Classification of English Consonants



Consonant?

is a speech sound
that is articulated with
complete or partial
closure of the vocal tract



Arguments

English phoneticians

◆ Prof. D. Jones

“ first principle of consonant classification is according to the *“place of articulation”*”



Russian phoneticians

◆ Prof. Vassilyev’s view, primary importance should be given to the *type of obstruction and the manner of production of noise*

◆ Russian phonetician M. A. Sokolova points out, that on the articulatory level each consonant may be identified by stating two general facts about it:

- 1) what sort of *articulatory posture* it is formed by;
- 2) *whereabout in the mouth* (or pharynx) it is produced [Sokolova 1991:50].

THE ARTICULATORY CLASSIFICATION OF THE ENGLISH CONSONANTS

English phoneticians

1. *place of articulation*
2. *manner of articulation*
3. *voicing*



Russian phoneticians

1. *work of the vocal folds/cords and force of exhalation*
2. *active organ(s) of speech and the place of obstruction*
3. *type or kind of articulatory obstruction and manner of noise production*
4. *position of the soft palate.*

Active organ, place of obstruction		Labial		Lingual					Pha- ryn- gal	
				Forelingual			Medio- lingual	Back lin- gual		
		bi- labial	la- bio- den- tal	inter- den- tal	alve- olar	post- alve- olar	palato- alve- olar	palatal		velar
Occlu- sives	plos- ives	p,b			t,d				k,g	
	nasal son- ants	m			n				ŋ	
Con- stric- tives	fric- atives		f,v	θ,ð	s,z		ʃ,ʒ			h
	son- ants	w			l	r		j		
Affri- cates							tʃ, dʒ			

On the articulatory level consonants change

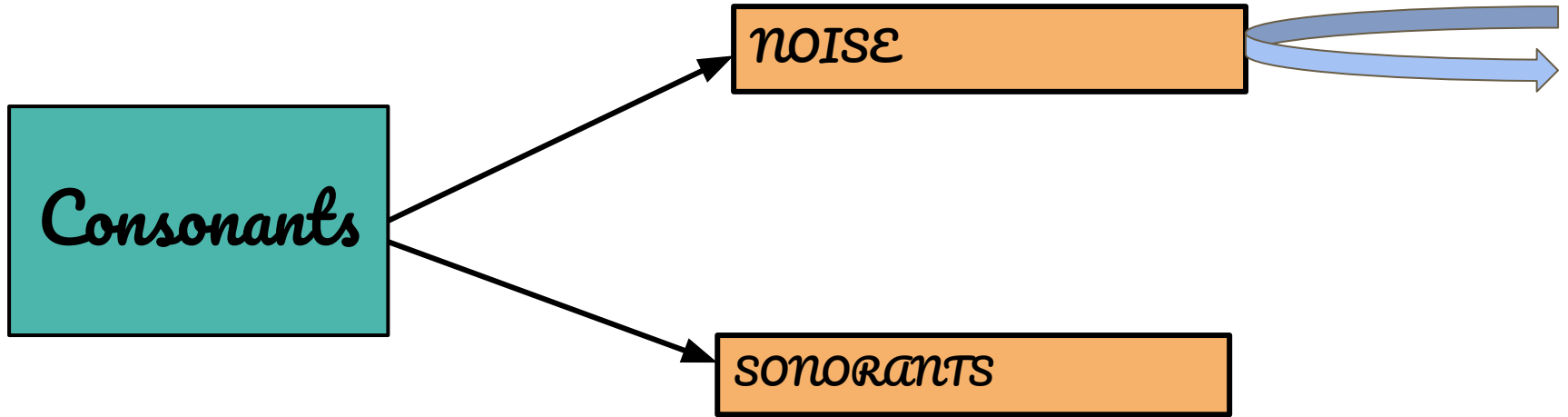


in the degree of noise

in the manner of articulation

in the place of articulation

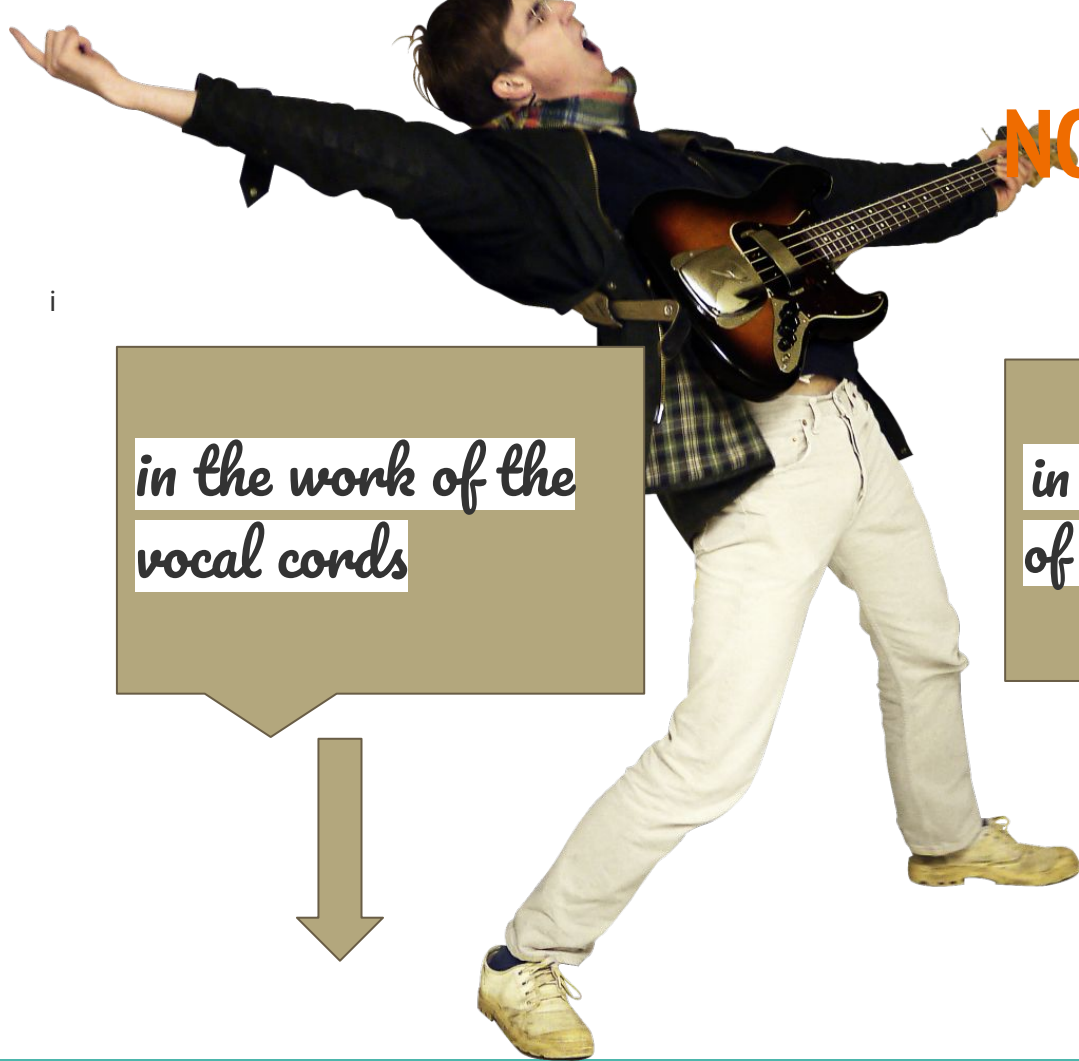
According to the degree of NOISE



NOISE consonants vary

*in the work of the
vocal cords*

*in the degree or force
of articulation*



i

According to the work of vocal cords

Noise
Consonants

- Voiced
- Voiceless

[b, d, g, v, ð, z, ʒ, dʒ, n, ŋ,
l, r, j, w,]

[p, t, k, s, f, θ, h, ʃ, tʃ]

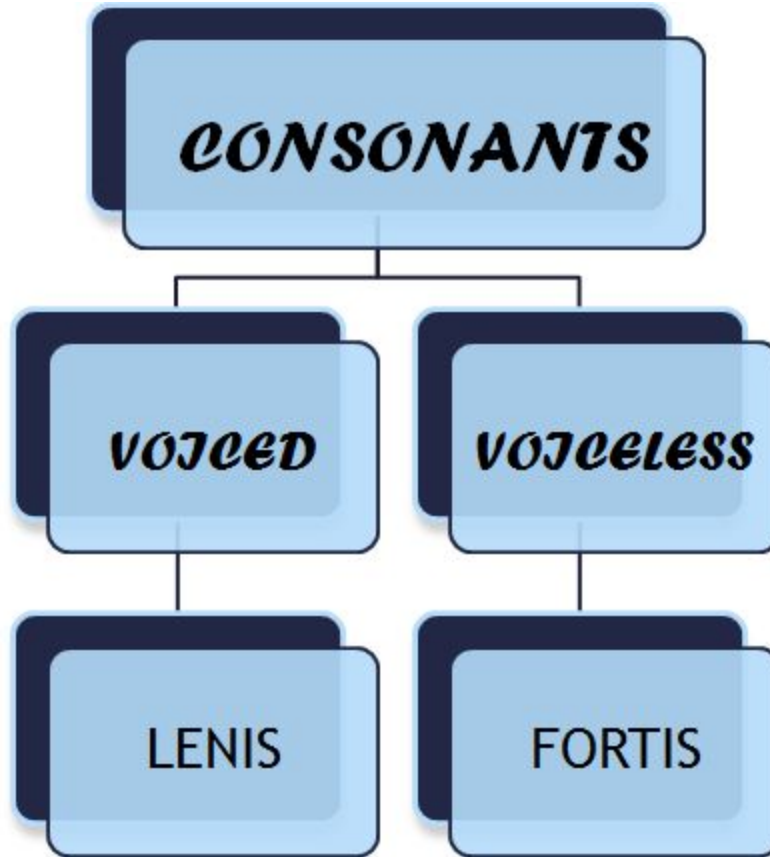
The degree of noise may vary because of the force of articulation:



Strong (or
fortis)

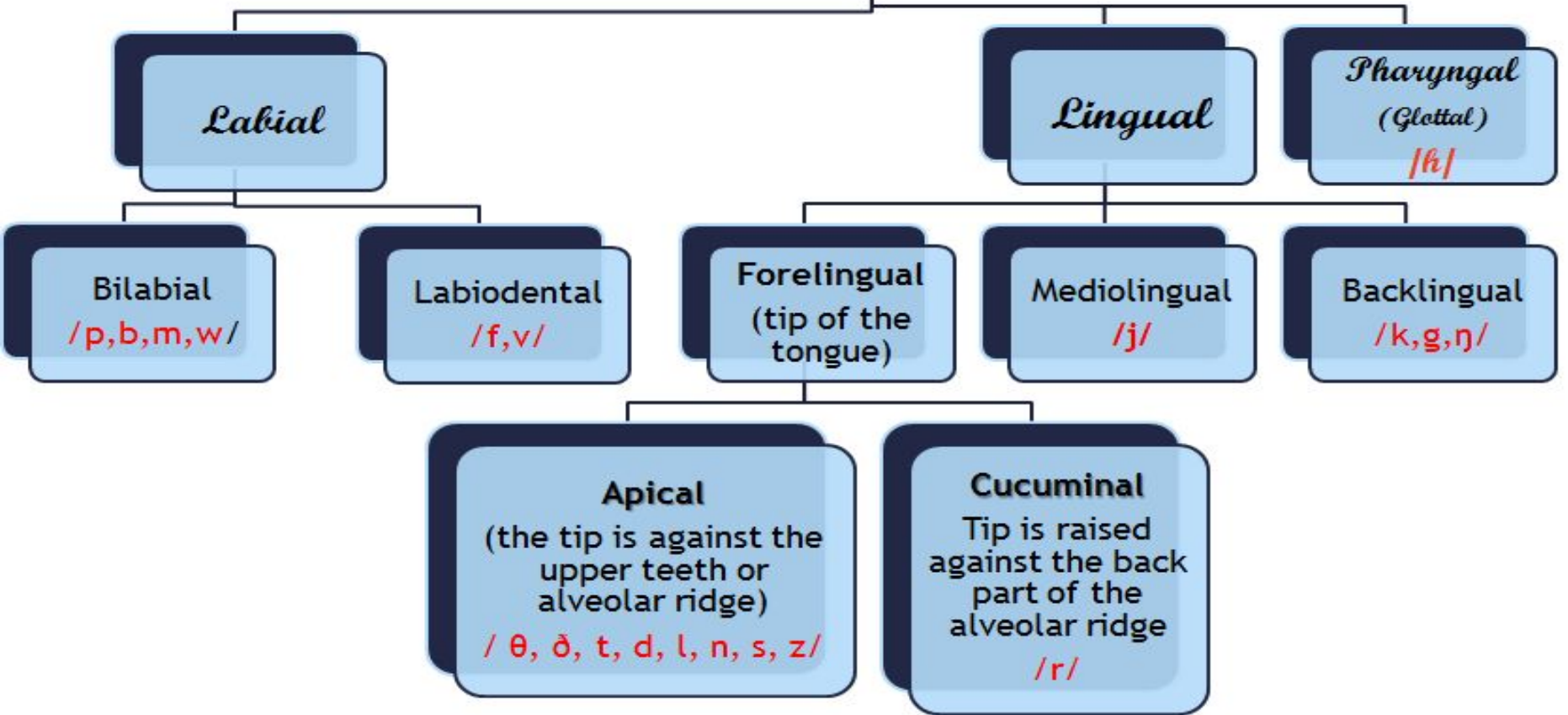
Weak (or
lenis)

/h/
/m/
/n/
/l/
/r/
/w/
/j/
/ŋ/



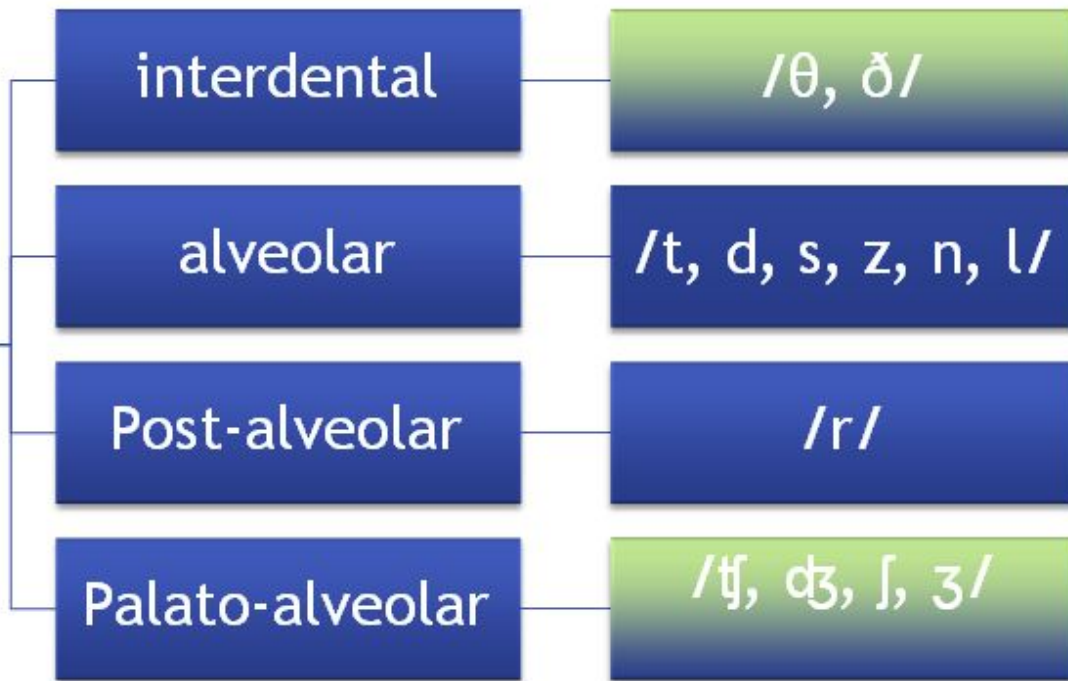
According to ACTIVE

Consonants organs of speech



According to the Place of Obstruction

Forelingual



retroflex /ɻ/

The MAnner of Noise Production and Type of Obstruction

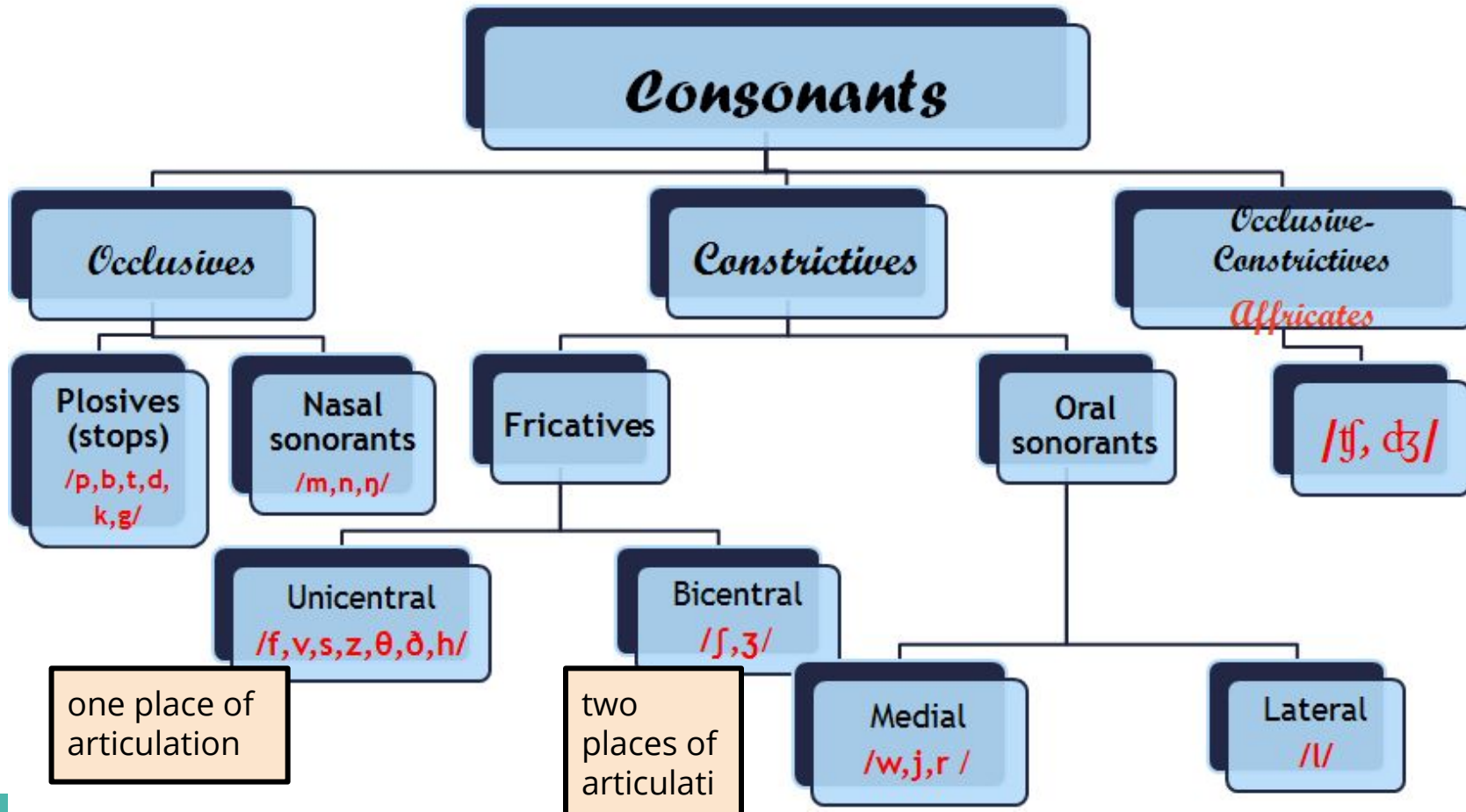
- complete closure (**occlusion**)

- incomplete closure
(**constriction**)

- closure immediately
followed by constriction
(**occlusion-constriction**)



Acc to Manner of production of NOISE





Occlusive

Noise Consonants

1. Pretty Polly Perkins has a pair of pretty plaits.
2. Barbara is a beautiful blonde with bright blue eyes.
3. A trip by train took a tiresome twenty-two hours.
4. Dennie's daughter Diana doesn't dislike darning.
5. Cut your coat according to your cloth.
6. Trifles make perfection, and perfection is no trifle.



Constrictive Fricative Consonants

Fine fellows met at five on the first of February. "Philip," said Ferdinand, "I fear we must fight." Then Philip and Ferdinand fought fairly for fifty-five minutes, after which they fell down in a faint, for the fight had been fearfully furious. When Philip came out of the faint, Ferdinand offered his hand. "Fair's fair," said Philip, "and I think this affair shows neither of us fears to fight."

Constrictive Fricative Consonants



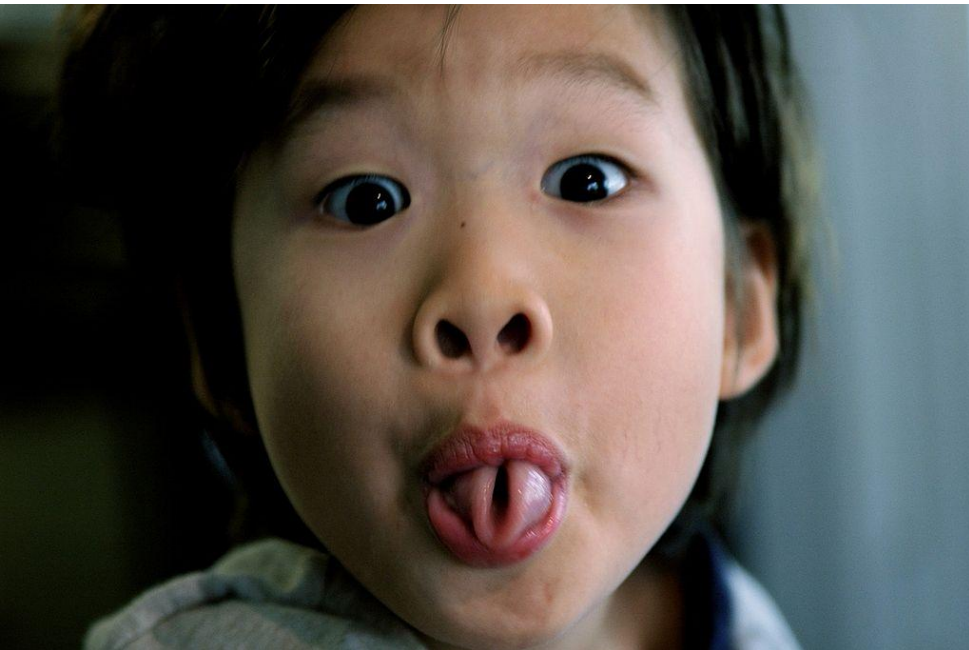
Arthur Smith, a thick-set, healthy athlete sees three thieves throw a thong round Thea's throat and threaten to throttle her. He throws one thug to earth with a thud that shakes his teeth. Both the other thieves run off with filthy oaths. Thea thanks Arthur for thrashing the three thugs.



Occlusive-Constrictive Consonants (Affricates)

1. Charles is a cheerful chicken-farmer. A poacher is watching Charles' chickens, choosing which to snatch. He chuckles at the chance of a choice-chicken to chew for his lunch. But the chuckle reaches Charles who chases the poacher and catches him.
2. The aged judge urges the jury to be just but generous.

The murmur of the bees in the elms brings back memories of many memorable summers.



Sonorous Consonants

1. The real reason is really rather curious.
2. Robert Rowly rolled a round roll round.
3. Let Lucy light a candle and we'll all look for the ball.

1. Sokolova M.A., English Phonetics. A theoretical course the Phoneme. – p.39-59
2. Ladefoged P., Johnson K., A course in phonetics Phonology and Phonetic transcription – p. 33-48
3. Roach P., English Phonetics and Phonology. The Phoneme – p.38-47

Literature