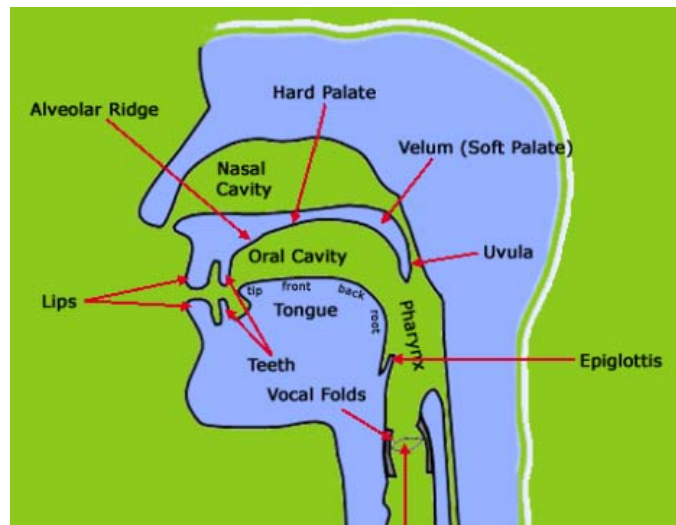


An Animated and Narrated Glossary of
Terms used in Linguistics
presents

Manner of Articulation

Articulators



Slide 2



Manner of Articulation

- The **manner of articulation** refers to the way airflow is controlled in the production of a phone (i.e. a linguistic sound).

Slide 3



Manner of Articulation on the IPA Chart

CONSONANTS (PULMONIC)												© 2005 IPA	
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal		
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ		
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ				
Trill		ʙ		ʀ					ʀ				
Tap or Flap		ⱱ		ɾ		ɽ							
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ		
Lateral fricative				ɬ ɮ									
Approximant		ʋ		ɹ		ɻ	j	ɰ					
Lateral approximant				l		ɭ	ʎ	ʟ					

Where symbols appear in pairs the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

Manner of articulation

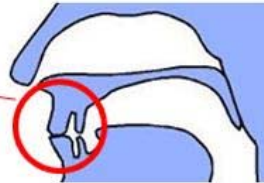
Slide 4

Plosive

	Bilabial	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Glottal
Plosive	p b		t d		ʈ ɖ	c ɟ	k ɡ	q ɢ	ʔ

Plosives require **total obstruction** of airflow.

Lips closed



Slide 5

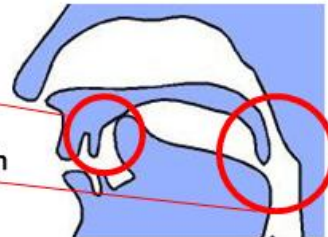
Nasal

	Bilabial	Labiodental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ

Nasals require air to flow out of the nose.

Coronal touching
alveolar ridge

Lowered velum
Air flows out through
nose



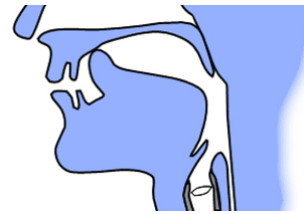
Slide 6



Trill

	Bilabial	Dental	Alveolar	Post alveolar	Uvular
Trill	B		r		R

Trills are made by **rapid succession of contact** between articulators that obstruct airflow.



Slide 7



Tap or Flap

	Bilabial	Labiodental	Dental	Alveolar	Post alveolar	Retroflex
Tap or Flap		V		ɾ		ɽ

A tap or flap is like trill, except that there is only **one rapid contact** between the articulators.

There is some difference between tap and flap, but we shall not pursue that here.



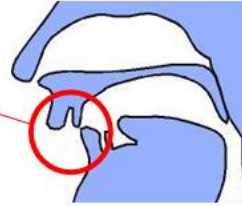
Slide 8

Fricative

	Bilabial	Labiodental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ

A fricative is formed when the **stricture is very narrow** (but without total closure) so that when air flows out, a hissing noise is made.

Lips and teeth come very close



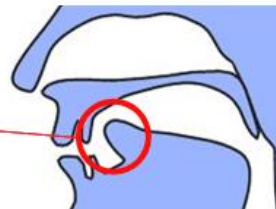
Slide 9

Approximant

	Bilabial	Labiodental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar
Approximant		ʋ		ɹ		ɻ	ɹ̥	ɰ

An approximant is a phone made when the obstruction of airflow **does not produce any audible friction**.

Tip of tongue curl towards alveolar ridge



Slide 10

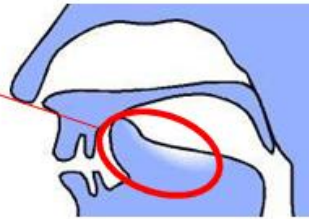


Lateral

	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar
Lateral approximant		l		ɭ	ʎ	ʟ

A lateral is made when air flows out of the sides of the mouth.

Coronal touching alveolar ridge
Sides are lowered to allow airflow



Slide 11



Note

- In this presentation, we have concentrated on the pulmonic consonants, but manners of articulation may be used to describe vowels and other linguistic sounds as well.

Slide 12



Further reading

- Ashby, Michael and John Maidment (2005) *Introducing Phonetic Science*. Cambridge University Press.
- Clark, John and Colin Yallop (1995) *An Introduction to Phonetics and Phonology*, 2nd edition, pp. 42-44. Blackwell Publishers.
- Crystal, David (1997) *A Dictionary of Linguistics and Phonetics*, 4th edition, pp. 232. Blackwell Publishers.
- Davenport, Mike and S. J. Hannahs (2005) *Introducing Phonetics and Phonology*, 2nd edition. New York: Hodder Arnold Publication.
- Ladefoged, Peter (2001) *A Course in Phonetics*, 4th edition. Fort Worth: Harcourt College Publishers.
- Odden, David (2005) *Introducing Phonology*. Cambridge University Press.
- Roach, Peter (2000) *English Phonetics and Phonology: A Practical Course*, 3rd edition. Cambridge University Press.
- Wee, Lian-Hee, Frederick Chew, Alfred Low and Lin Lin Ma (2005) *Tickle Your Tongue: An Introductory Reference to Learning Phonetics* [software]. CDTL, National University of Singapore.

Slide 13



The End

Wee, Lian-Hee and Winnie H.Y. Cheung (2009)
An animated and narrated glossary of terms used in Linguistics.
Hong Kong Baptist University.