

### IIT Madras BSc Degree

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### Learning Language

Rajesh Kumar

### Early and late learning

Learning language early
(before 10 years of age!)
Automatic and effortless

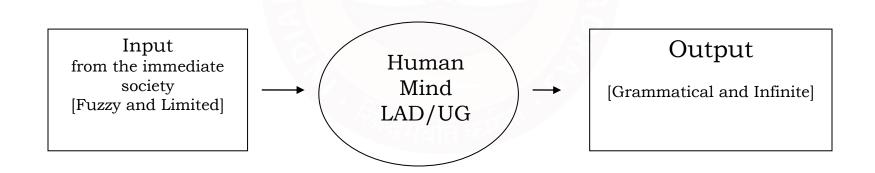
Learning language late
(after 15 years of age!)
Requires efforts

### Early

Movement of articulators in vocal tract
Input
Output

#### 'Learning Language is child's play'

• A normal human child is hardwired to acquire language from the immediate environment with the help of Language Acquisition Device (LAD) and Universal Grammar (UG).



### Late

- Another language exists
- Conscious efforts
- Specific and directed motivations help
- Easy to work on structures
- Not possible to change conditioning of vocal tract

### Learning as subconscious process

- Listening
- Speaking
- Writing
- Reading



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# Sounds and Writing Symbols in English

Rajesh Kumar

English Letter – UPPER CASE and Lower Case

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

a b c d e f g h l j k l m n o p q r s t u w x y z

### English Rhyme

Α		<b>A</b> pple	DETECHN	S	
В	_	Ball	K	Т	
C	_	Cat	5/ L/M	U	
D	_	Dog	M	<b>S</b> V	
Ε	_	Elephant	N	W	
F		Fan	0	X	
G	_	Girl	P	Υ	
Н	_	House	Q	Z	
I		Ink	R	26	Letters

### **UPPER CASE and Lower Case Letters**

			TE	ST IMAG	ES			
			UPPER	CASE LE	TTERS			
A	В	C	D	E	F	G	Н	
J	K	L	M	N	0	P	Q	R
S	T	U	V	W	X	Y	Z	
			Lower	CASE LI	ETTERS			
а	b	C	d	е	f	g	h	i
j	k	I	m	n	0	р	q	r
S	t	u	v	w	х	У	z	

### English Letters

A a	Вb	Сс	D d	E e	F f	G g	Ηh	Ιi
а	bee	cee	dee	е	ef	gee	(h)aitch	i
[e1]	[bi:]	[si:]	[di:]	[i:]	[εf]	[dʒi:]	[(h)ett]]	[a1]
Jј	K k	L 1	M m	Nn	Оо	Pр	Qq	Rr
jay	kay	el	em	en	O	pee	cue	ar
[dʒeɪ]	[kei]	[εl]	[ɛm]	[ɛn]	[00]	[pi:]	[kju:]	[a:/ar]
Ss	T t	U u	Vv	Ww	Хx	Υy	Ζz	
ess	tee	u	vee	double-u	ex	wy(e)	zed/zee	
[ɛs]	[ti:]	[juː]	[vi:]	[ˈdʌbəljuː]	[ɛks]	[wai]	[zɛd/zi:]	

### Vowels Sounds in English

	Voi	wels	
1	pjt	<b>)</b> :	b <u>o</u> rn
e	p <u>e</u> t	u:	b <u>oo</u> n
æ	p <u>a</u> t	aı	bite
D	pot	er	b <u>ai</u> t
Λ	b <u>u</u> t	21	boy
U	b <u>oo</u> k	əu	t <u>oe</u>
Э	moth <u>e</u> r	au	h <u>ou</u> se
i:	b <u>ea</u> n	ပခ	poor
3:	b <u>u</u> rn	ıə	<u>ea</u> r
a:	b <u>a</u> rn	eə	<u>ai</u> r

### Consonant Sounds in words

<ol> <li>/p/-</li> </ol>	pit	13. /h/-	hot
2. /b/-	bit	14. /1/ -	lad
3. /t/-	tab	15. /r/-	red
4. /d/-	dab	16. /w/-	wed
5. /k/-	cab	17. /0/-	thought
6. /g/-	gab	18. /ð/-	them
7. /f/-	fan	19. /5/-	shy
8. /v/-	van	20. /3/-	treasure
9. /s/-	sad	21. /ʧ/ -	chime
10. /z/-	ZOO	22. /ʤ/-	jam
11. /m/-	man	23. /j/-	<b>y</b> um
12. /n/-	not	24. /ŋ/-	sing

### Consonant Sounds in English

p	b	t	d	f	v	θ	ð
/pin/	/bæd/	/tun/	/dog/	/faiv/	/væn/	/⊖ເn/	/8æt/
pin	bad	tin	dog	five	van	thin	that
m	n	η	h	<b>f</b>	dz	k	g
/mæn/	/nəuz/	/Oun/	/ha:f/	/ʧə:ʧ/	/ʤæm/	/kaind/	/gʌn/
man	nose	thing	half	church	jam	kind	gun
S	Z	ſ	3	1	r	w	j
/sev/	/zu:/	/ʃip/	/meʒə/	/leg/	/rʌn/	/wə:k/	/jes/
say	zoo	ship	measure	leg	run	work	yes

### Consonant Sounds

#### DICTIONARY PHONETIC SYMBOLS

B) CONSONANT SOUNDS

/b/	book	/buk/
/d/	day	/dei/
/g/	give	/grv/
/v/	vast	/va:st/
/ŏ/	this	/ðis/
/z/	Z00	/zu:/
/3/	vision	/ˈvɪʒən/
/dʒ/	jump	/dʒʌmp/
/V	look	/lok/
/r/	run	/rʌn/
/j/	yard	/ja:d/

/w/	we	/wi:/
/m/	moon	/mu:n/
/n/	name	/neɪm/
/ŋ/	sing	/srŋ/
/p/	path	/pa:θ/
/t/	town	/taun/
/k/	cat	/kæt/
/f/	fish	/f1ʃ/
/0/	think	/θɪŋk/
/s/	say	/seɪ/
/ʃ/	she	/fi:/
/tʃ/	cheese	/tʃi:z/

### Words with vowels

aa

i

İİ

U

uu

0

au



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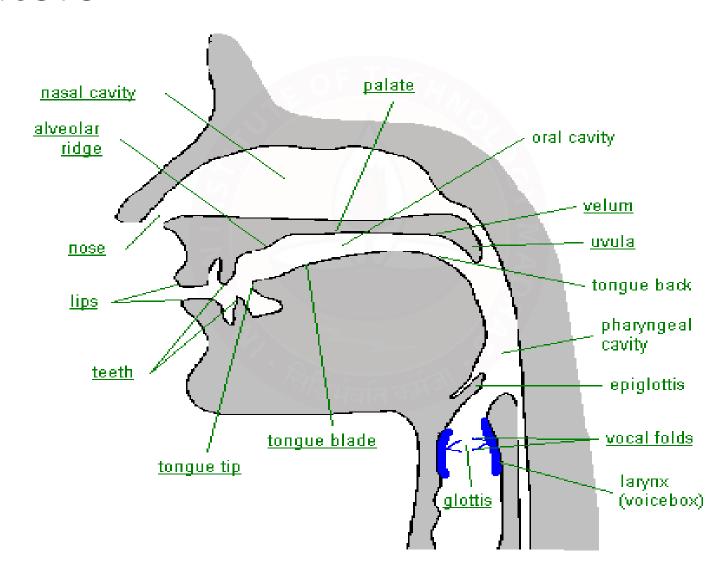
### Speech Sounds in English

Rajesh Kumar

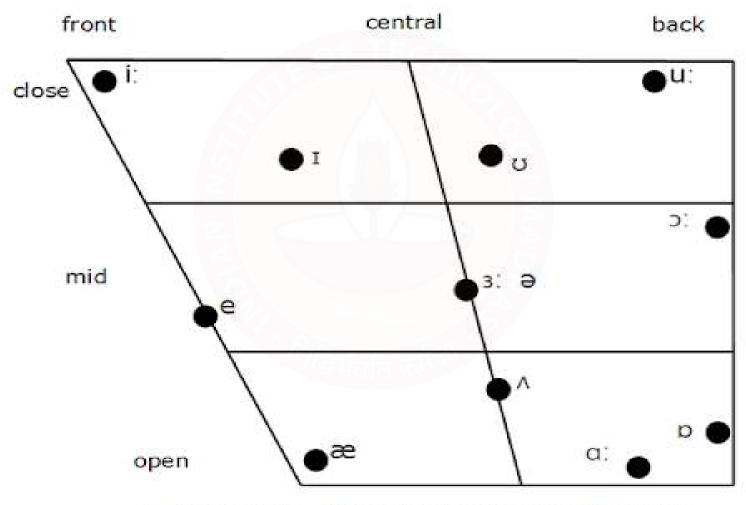
### Articulation of Vowel Sounds

a	up,	cup		
aa	father,	sound,	round	
i	in,	ink,	sink,	drink
li	clean,	seat,	beat,	feet
u	book,	cook,	look,	
uu	Z00,	boot,	room	

### Articulators



### Understanding vowel sounds



English vowels. The figure represents the mouth

### Articulation of Consonant Sounds

**Oral Sounds** 

	-asp -voice	+asp -voice	-asp +voice	+asp +voice	
Velar	k	kh	g	gh	ng
Palatal	С	ch	j	jh	ny
Retroflex	Т	Th	D	Dh	N
Dental	t	th	d	dh	n
Labial	р	ph	b	bh	m

Nasal Sounds

ſ	bilal	oial		ntal	dei	ntal	alve	olar		st- eolar	palatal	ve	lar	glottal
stop	p	b					t	d				k	g	3
nasal		m						n	140				ŋ	
flap					SAL			r		OA IM				
fricative			f	v	θ	ð	S	Z	ſ	3				h
approximant							N. G. Y.	J	FST.		j			
lateral approximant								1						



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## Articulation of Vowel and Consonant Sounds in English

Rajesh Kumar

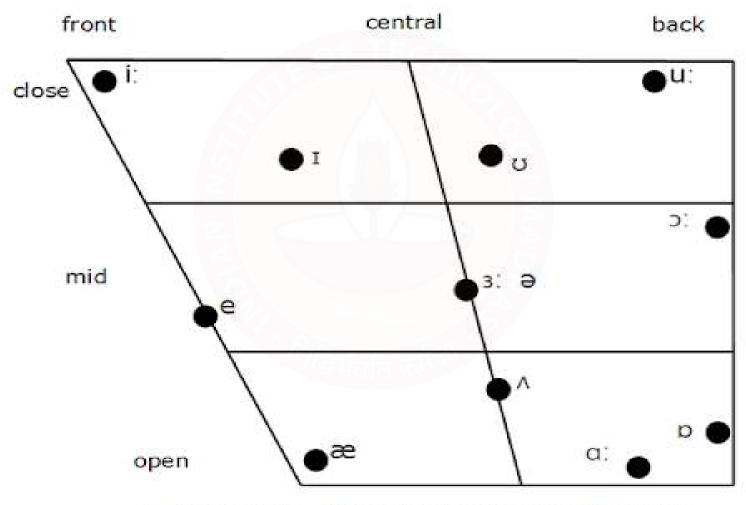
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e	p <u>e</u> t	u:	b <u>oo</u> n
æ	p <u>a</u> t	aı	bite
D	pot	er	b <u>ai</u> t
Λ	b <u>u</u> t	21	boy
U	b <u>oo</u> k	əu	t <u>oe</u>
Э	moth <u>e</u> r	au	h <u>ou</u> se
i:	b <u>ea</u> n	ပခ	poor
3:	b <u>u</u> rn	ıə	<u>ea</u> r
a:	b <u>a</u> rn	eə	<u>ai</u> r

### Understanding vowel sounds



English vowels. The figure represents the mouth

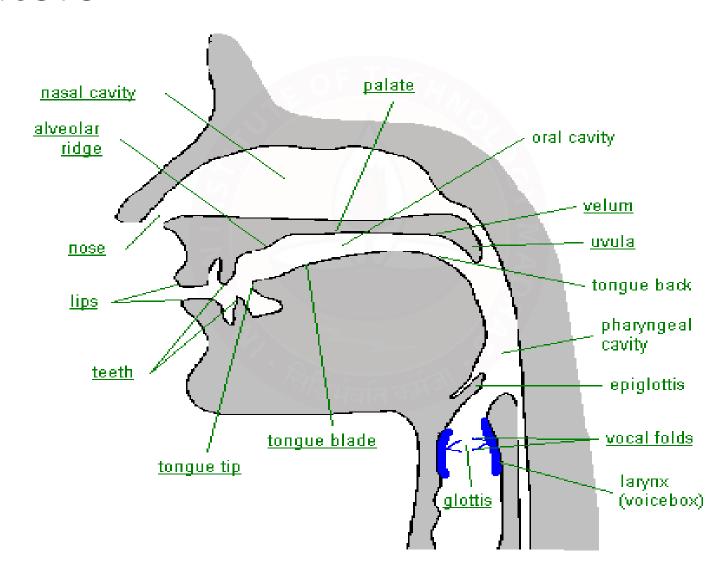
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Retroflex	Т	Th	D	Dh	N
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Labial	р	ph	b	bh	m

Nasal Sounds

### Articulators



ſ	bilal	oial		ntal	dei	ntal	alve	olar		st- eolar	palatal	ve	lar	glottal
stop	p	b					t	d				k	g	?
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5. /k/-	cab	17. /⊖/-	thought
6. /g/-	gab	18. /ð/-	them
7. /f/-	fan	19. /5/-	shy
8. /v/-	van	20. /3/-	treasure
9. /s/-	sad	21. /ʧ/-	chime
10. /z/-	ZOO	22. /ഷ/ -	jam
11. /m/-	man	23. /j/-	<b>y</b> um
12. /n/-	not	24. /ŋ/-	sing

### Some specific features of English Sounds

- 5
- sh
- Z
- •
- f
- ph



### Diphthongs and Semi-vowels

# Consonants and Vowels UIT Madras BSc Degree

II I SIT			<u>οο</u> κ	UI TOO		O IRE	ei DAY	John & Sarah Free Materials 1996
e men			3ľ ord	Constitution of		O UR	OI BOY	ე <u>დ</u>
æ	<b>Л</b>	(V) (2)	Q! ART	D NOT		ar EAR	QI MY	ор н <u>ом</u>
p	PBED	t TIME	$d_{\underline{p}0}$	tf chur	сн	JUDGE JUDGE	k	g
f	V VERY	HINK	ð THE	S		Z 200	∫ SHORT	3 CASUAL
m MILK	n No	ŋ si <u>ng</u>	h	1		T READ	WINDOW	j Yes



## Diphthongs

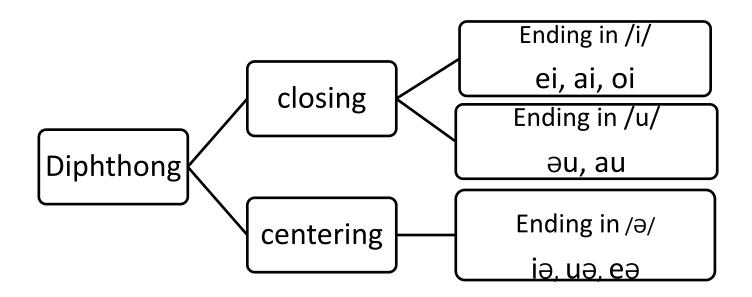
#### DIPHTHONGS

```
/er/ as in 'take'
/ar/ as in 'buy'
/or/ as in 'boy'
/10/ as in 'fear'
/eə/ as in 'care'
/əʊ/ as in 'go'
/ʊə/ as in 'poor'
/au/ as in 'cow'
```

- Diphthongs are sounds which consist of a movement or a glide from one vowel to the other.
- In other words, diphthongs are produced by combining two vowels.
  - Eg. /ei/ is a diphthong that combines the two vowels /e/ and /i/.
- The first sound in the combination is articulated longer and stronger than the second one.
- In terms of length, they are like the long vowels.



# There are eight diphthongs and they can be understood through the diagram given below.







## Examples

ei	ai	oi	əu	au	iə	uə	еә
t <u>a</u> ke	h <u>i</u> gh	b <u>oy</u>	sl <u>ow</u>	b <u>ow</u> l	p <u>eer</u> s	<u>ju</u> ry	pair
<u>ai</u> m	<u>i</u> ce	<u>oi</u> l	<u>ow</u> e	<u>ow</u> l	<u>ea</u> r		air
pr <u>ey</u>	fl <u>y</u>	all <u>oy</u>	<u>go</u>	C <u>OW</u>	cl <u>ea</u> r	c <u>ure</u>	care
br <u>ea</u> k	t <u>y</u> pe	v <u>oi</u> ce	fl <u>oa</u> t	br <u>ow</u>	f <u>ea</u> r	p <u>oor</u>	bear
l <u>a</u> te	r <u>ig</u> ht	t <u>oy</u>	l <u>o</u> ne	all <u>ow</u>	r <u>ea</u> l	f <u>ue</u> l	their

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## Semi-vowels

- The sounds w and y in English are called semivowels.
- There is no blockage of air in the articulation of w and y, thus giving it a vowel-like quality.
- However, w and y are non-syllabic in nature.
   This means that unlike vowels they do not form syllables.
- Owing to the above reason, they are referred to as consonants.



## Examples

W	y			
<u>w</u> ell	<u>y</u> esterday			
<u>w</u> orld	intr <u>u</u> sion			
t <u>w</u> in	b <u>eau</u> ty			
s <u>u</u> ite	st <u>ew</u> ard			
acq <u>u</u> ire	f <u>ew</u>			

## Semi-vowels



- y and w
- These sounds do not occur at word final positions.
  - Window
  - Cow
  - Happy
  - Monday
- y and w sounds are not in the final positions.

#### **Functions of Semi-vowels**

- Go away
- I am late.
- Say it.
- Buy it.
- Put your shoe on
- Blue is my favorite color.
- Three years





# Consonant Clusters in English Words

Rajesh Kumar



## Simple words

Most of the words are a sequence of consonants and vowel sounds.

CVCV papa, daddy /daedii/, mommy /momii/

• CVC dad, mom,

• VC am, is, are, it, in, on, at

• CVV the /dii/, sea /sii/

Words only with vowels sounds

• Eye /aai/

#### Words



• Words are sequence of consonants and vowel sounds.

• CVCVCV papa, daddy, mom

• CVC dad, mom,

VCVC

CVV

CCVC glassCVCC sink

Sounds from same places of articulation do not come next to each other.
 pb bp td

- Words only with vowels sounds
  - Eye /aai/



#### Consonants

 Sounds produced by modification of the flow of exhaling air in the vocal tract

• They have an inbuilt vowel sound 'a' with all of them.



#### Consonant Clusters

- Two consonant sounds together without the inbuilt sound 'a' from the first one
- Reduction of the inbuilt vowel sounds from the first one
  - Cluster /klastar/

- Cluster of sounds occur at any place in the word, however, NOT in random order
  - No two sounds from the same place of articulation (other than nasals) will become part of the cluster.
  - \*pb (not good), but mb or mm are good.



#### Consonant Clusters

- Two consonant sounds together
- Reduction of the inbuilt vowel sounds from the first one
- Not in random order

```
Cluster - /kləstər/ CCVCCVC
```

- Bliss /blis/ CCVC
- School /skuul/ CCVC
- Scooter /skutar/ CCVCVC
- Blast /blaast/ CCVCC



#### Clusters of three consonants

```
• Spring /spring/ s p r cccvc
```

- Stress /stres/ s t r cccvc
- Screw /skrue/ s k r cccvv

```
    Splash /splash/ s p l cccvc
```

- String /string/ s t r cccvc
- Scrub /skrub/ s k r cccvc