# BBN-ANG-141 Foundations of phonology 4 The vowel phonemes of English

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#### outline

English or Englishes?

CUBE vowel phonemes short vowels long vowels diphthongs

the distribution of vowels

simple vowel symbols

standard lexical sets

sample exam questions

what does "English" mean?

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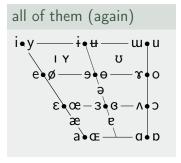
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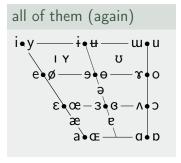
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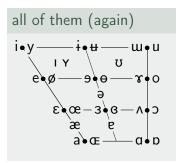
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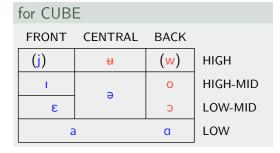
### accents of English

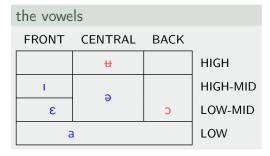
are much more diverse in their vowel than in their consonant inventories

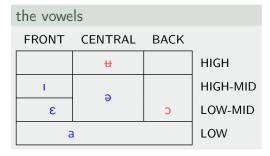


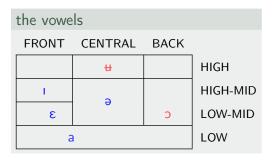




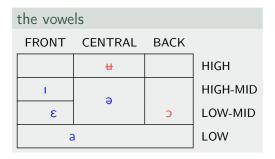








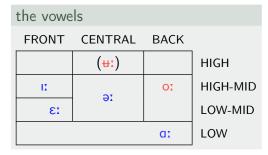


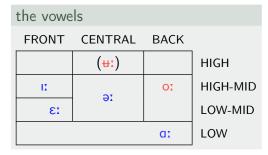


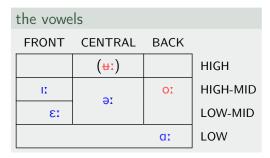


### minimal pairs

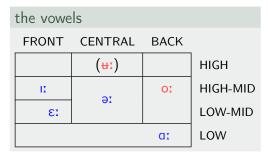
pit /pit/, pet /pst/, pat /pat/, put /put/, putt /pət/, pot /pst/







the standard lexical sets			
FRONT	CENTRAL BACK		
	(CURE)		
NEAR	NURSE	FORCE	
SQUARE	NONSE		
START			



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### minimal pairs

beard /bixd/, bared /bɛxd/, bird /bəxd/, board /boxd/, bard /baxd/

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1. some speakers retain CURE: ie pronounce it /kjuː/

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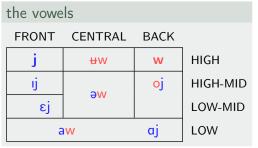
### CURE-POOR split (length is ignored!)

	NURSE	CURE	POOR	FORCE
GA/RP	Ð	7	IJ	0
CUBE1	Ð	ŧ	tt O	
CUBE2	Ð		0	
CUBE3	ə			0

the vow	els		
FRONT	CENTRAL	BACK	
j	uw	w	HIGH
ıj	214	oj	HIGH-MID
εj	<del>-</del> ƏW		LOW-MID
	aw	aj	LOW

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# diphthongs of CUBE



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FRONT CENTRAL BACK						
	GOOSE					
FLEECE	GOAT	CHOICE				
FACE	GOAT					
MOU	PRICE					

# diphthongs of CUBE

#### the vowels

FRONT	CENTRAL	BACK
j	<del>u</del> w	W
ij	ЭW	oj
εj	₩	
a	ıw	aj

HIGH-MID LOW-MID LOW

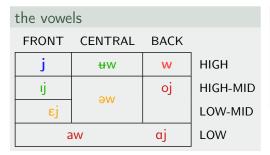
HIGH

the standard lexical sets						
FRONT CENTRAL BACK						
	GOOSE					
FLEECE	GOAT	CHOICE				
FACE						
MOUTH PRICE						

### minimal pairs

feel /fijl/, fail /fɛjl/, foul /fawl/, fool /f $_{\rm Hw}$ l/, foal /f $_{\rm Hw}$ l/, foil /fojl/, file /fajl/

# diphthongs of CUBE



# types of diphthong

- ► marginal: ıj, ʉw
- ▶ narrow: εj, əw
- ▶ wide: aw, αj, oj

	C	#	V
A ıj εj αj oj aw əw ʉw	1	✓	<b>✓</b>
B is es as or <del>u</del> s	1	1	Х
Cıɛaəɔʉ	✓	X	X

	C	#	V
A ıj εj αj oj aw əw uw	1	✓	<b>✓</b>
B iz ez az əz oz <del>u</del> z	1	1	Х
Cıɛaəɔʉ	1	X	X

A diphthongs, occur in all three environments (free vowels)

	C	<u></u> #	V
A ıj εj αj oj aw əw ʉw	1	✓	<b>✓</b>
B is as as or the	1	✓	Х
Сієаээн	1	Х	Х

A diphthongs, occur in all three environments (free vowels)

B long monophthongs, do not occur before a vowel (R vowels)

	C	<u>#</u>	V
A ij εj αj oj aw əw ʉw	1	✓	<
Bir er ar ər or <del>u</del> r	1	1	Х
Сієаээн	1	Х	Х

A diphthongs, occur in all three environments (free vowels)

B long monophthongs, do not occur before a vowel (R vowels)

C short vowels, occur only before consonants (checked vowels)

# simple vowel symbols

CUBE symbols are phonetically precise but perhaps overly so. . . let's use simpler ones

CHECKED	i	е		a	ə	0	u
R	ix	eː		aː	ЭΙ	O.	uː
FREE	ij	ej	aj	aw	ЭW	oj	uw

#### standard lexical sets 1

groups of words represented by a key word (set in SMALL CAPITALS) containing the same vowel phoneme; in a given accent several lexical sets may contain the same vowel, in other accents they may contain different vowels; the system was devised by John Wells; we here give some transcription systems since 1900

lexical set		Jones 1920	Gimson	•	-	•
	1900	1920	1962	1995	2012	2015
1 KIT	i	i	I	ı	I	i
2 DRESS	е	е	е	3	3	е
3 TRAP	æ	æ	æ	а	a	а
4 LOT	0	Э	α	α	Э	0
5 STRUT	е	٨	٨	٨	Λ/ə	ə
6 FOOT	u	u	υ	υ	ŧ	u

## standard lexical sets 2

lexical set	Sweet	Jones	Gimson	Upton	Lindsey	simple
	1900	1920	1962	1995	2012	2015
7 (BATH)	aa	aï	ar	aï	ar	aː
8 (CLOTH)	0	Э	а	р	Э	0
9 NURSE	әә	ξ	31	ЭΙ	ЭΙ	ЭΙ
10 FLEECE	ij	ix	ix	ix	ıj	ij
11 FACE	ei	ei	eı	eı	εj	ej
12 (PALM)	aa	aï	aï	aï	αï	ar
13 (THOUGHT)	Э	ıc	ΣĽ	ıc	OI	OI
14 GOAT	ou	ou	υG	əυ	ЭW	əw
15 GOOSE	uw	uː	uː	uː	<del>u</del> w	uw
16 PRICE	ai	ai	aı	ΛΙ	aj	aj
17 CHOICE	oi	ic	ЭI	ЭI	oj	oj
18 MOUTH	au	au	aυ	aυ	aw	aw

### standard lexical sets 3

lex	cical set	Sweet 1900	Jones 1920	Gimson 1962	Upton 1995	Lindsey 2012	simple 2015
19	NEAR	iə	iə	ΙƏ	ΙƏ	IX	ix
20	SQUARE	еə	63	еə	13	13	eï
21	START	aa	aï	aï	ar	aï	aı
22	(NORTH)	Э	ΣC	ıc	ΣĽ	OI	OI
23	FORCE	ЭƏ	ΣĽ	ıc	ıc	OI	OI
24	CURE	иə	иə	υə	υə	нï	OI
25	HAPPY	ĭ	İ	I	i	ıj	ij
26	LETTER	ə	ə	ə	ə	ə	ə
27	COMMA	ə	ə	ə	ə	ə	ə











# which set contains only wide diphthongs?

- 1. ij ej aj oj
- 2. aj aw oj
- 3. aw əw uw
- 4. ij uww

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#### what is the distribution of long vowels in BE?

- 1. they occur before vowels, but not after vowels
- 2. they occur after consonants, but not before consonants
- 3. they occur word finally, but not word initially
- 4. they occur word finally, but not prevocalically

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