

BBN-ANG-243 Phonological analysis

2. The vowel inventory of English

Zoltán Kiss, Péter Szigetvári, Attila Starčević, Miklós Törkenczy

Dept of English Linguistics, Eötvös Loránd University

the stressed vowels of British English

	Gimson	Lindsey	— C	— #	— V
KIT	ɪ	ɪ	✓	✗	✗
DRESS	e	ɛ	✓	✗	✗
TRAP	æ	a	✓	✗	✗
STRUT	ʌ	ə	✓	✗	✗
LOT/CLOTH	ɒ	ɔ	✓	✗	✗
FOOT	ʊ	ʉ	✓	✗	✗
NEAR	ɪə	ɪ:	✓	✓	✗
SQUARE	eə	ɛ:	✓	✓	✗
START/BATH/PALM	a:	a:	✓	✓	✗
NURSE	ɜ:	ə:	✓	✓	✗
FORCE/NORTH/THOUGHT	ɔ:	o:	✓	✓	✗
CURE	ʊə	ʉ:	✓	✓	✗
FLEECE	i:	ɪj	✓	✓	✓
FACE	eɪ	ɛj	✓	✓	✓
PRICE	aɪ	aj	✓	✓	✓
CHOICE	ɔɪ	oj	✓	✓	✓
MOUTH	aʊ	aw	✓	✓	✓
GOAT	əʊ	əw	✓	✓	✓
GOOSE	u:	ʉw	✓	✓	✓

the stressed vowels of British English

	Gimson	Lindsey	— C	— #	— V	}
KIT	I	I	✓	X	X	
DRESS	e	ɛ	✓	X	X	
TRAP	æ	a	✓	X	X	
STRUT	ʌ	ə	✓	X	X	
LOT/CLOTH	ɒ	ɔ	✓	X	X	
FOOT	ʊ	ʌ	✓	X	X	
NEAR	ɪə	ɪ:	✓	✓	X	
SQUARE	eə	ɛ:	✓	✓	X	
START/BATH/PALM	a:	a:	✓	✓	X	
NURSE	ɜ:	ə:	✓	✓	X	
FORCE/NORTH/THOUGHT	ɔ:	o:	✓	✓	X	
CURE	ʊə	ʉ:	✓	✓	X	
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STRUT	ʌ	ə	✓	x	x	
LOT/CLOTH	ɒ	ɔ	✓	x	x	
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NEAR	ɪə	ɪ:	✓	✓	x	
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START/BATH/PALM	a:	a:	✓	✓	x	
NURSE	ɜ:	ə:	✓	✓	x	
FORCE/NORTH/THOUGHT	ɔ:	o:	✓	✓	x	
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PRICE	aɪ	aj	✓	✓	✓	
CHOICE	ɔɪ	oj	✓	✓	✓	
MOUTH	aʊ	aw	✓	✓	✓	
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GOOSE	u:	ʌw	✓	✓	✓	

checked

R vowels

the stressed vowels of British English

	Gimson	Lindsey	— C	— #	— V	
KIT	I	I	✓	X	X	
DRESS	e	ɛ	✓	X	X	
TRAP	æ	a	✓	X	X	
STRUT	ʌ	ə	✓	X	X	
LOT/CLOTH	ɒ	ɔ	✓	X	X	
FOOT	ʊ	ʌ	✓	X	X	
NEAR	ɪə	ɪ:	✓	✓	X	
SQUARE	eə	ɛ:	✓	✓	X	
START/BATH/PALM	a:	a:	✓	✓	X	R vowels
NURSE	ɜ:	ə:	✓	✓	X	
FORCE/NORTH/THOUGHT	ɔ:	o:	✓	✓	X	
CURE	ʊə	ʌ:	✓	✓	X	
FLEECE	i:	ɪj	✓	✓	✓	
FACE	eɪ	ɛj	✓	✓	✓	
PRICE	aɪ	aj	✓	✓	✓	
CHOICE	ɔɪ	oj	✓	✓	✓	free
MOUTH	aʊ	aw	✓	✓	✓	
GOAT	əʊ	əw	✓	✓	✓	
GOOSE	u:	ʌw	✓	✓	✓	

our enterprise is to simplify the vowel system

Lindsey's symbols

I	ɛ	a	ə	ɔ	ʊ
ɪ	ɛ:	a:	ə:	ɔ:	ʊ:
ɪj	ɛj	aw	aj	əw	ɔw

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Lindsey's symbols

I	ɛ	a	ə	ɔ	ʉ
ɪ:	ɛ:	a:	ə:	ɔ:	ʉ:
ɪj	ɛj	aw	aj	əw	ɔj



- a and ɔ, o and ʉ are in complementary distribution

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ɪ:	ɛ:	a:	ə:	ɔ:	ʉ:
ɪj	ɛj	aw	aj	əw	ɔw



- ▶ a and ə, o and ɔ are in complementary distribution
- ▶ a/o before j and :

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ɪ:	ɛ:	a:	ə:	ɔ:	ʉ:
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- ▶ a/o before j and :
- ▶ a/ɔ elsewhere

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ɪ	ɛ:	a:	ə:	ɔ:	ʉ:
ɪj	ɛj	aw	aj	əw	ɔw



- a and ə, o and ɔ are in complementary distribution
- a/o before j and :
- a/ɔ elsewhere

simplified system

I	ɛ	a	ə	o	ʉ
ɪ	ɛ:	a:	ə:	ɔ:	ʉ:
ɪj	ɛj	aw	aj	əw	ɔw

symmetry

SHORT/CHECKED LONG/R

i kit	ɪ near		
ɛ dress	ɛː square		
a trap	aː start		
o lot	oː force		
ʌ foot	ʌː cure		
ə strut	əː nurse		

symmetry

SHORT/CHECKED LONG/R

i kit	ɪ near		
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SHORT/CHECKED LONG/R

i kit	ɪ near		
ɛ dress	ɛː square		
a trap	aː start		
o lot	oː force		
ʌ foot	(ʌː cure)		
ə strut	əː nurse		

symmetry

SHORT/CHECKED	LONG/R	DIPHTHONG/FREE	
i kit	ɪ near	ij fleece	
ɛ dress	ɛː square	ɛj face	
a trap	aː start	aj price	aw mouth
o lot	oː force	oj choice	
ʌ foot	(ʌː cure)		əw goose
ə strut	əː nurse		əw goat

symmetry

SHORT/CHECKED	LONG/R	DIPHTHONG/FREE	
i kit	ɪ near	ij fleece	ɪw bill
ɛ dress	ɛː square	ɛj face	ɛw bell
a trap	aː start	aj price	aw mouth
o lot	oː force	oj choice	ow ball
ʌ foot	(ʌː cure)		ʌw goose
ə strut	əː nurse		əw goat

l-vocalization

symmetry

SHORT/CHECKED	LONG/R	DIPHTHONG/FREE	
i kit	ɪ near	ɪj fleece	ɪw bill
ɛ dress	ɛː square	ɛj face	ɛw bell
a trap	aː start	aj price	aw mouth
o lot	oː force	oj choice	ow ball
ʌ foot	(ʌː cure)	ʌj goose	
ə strut	əː nurse	əj goat	

glide fronting

symmetry

SHORT/CHECKED	LONG/R	DIPHTHONG/FREE	
i kit	ɪ near	ij fleece	ɪw bill
ɛ dress	ɛː square	ɛj face	ɛw bell
a trap	aː start	aj price	aw mouth
o lot	oː force	oj choice	ow ball
ʌ foot	(ʌː cure)	ʌj goose	(uw bull)
ə strut	əː nurse	əj goat	əw dull

I-vocalization

symmetry

SHORT/CHECKED	LONG/R	DIPHTHONG/FREE	
i kit	ɪ near	ij fleece	ɪw bill
ɛ dress	ɛː square	ɛj face	ɛw bell
a trap	aː start	aj price	aw mouth
o lot	oː force	oj choice	ow ball
ʌ foot	(ʌː cure)	ʌj goose	(uw bull) ↑
ə strut	əː nurse	əj goat	əw dull

symmetry

SHORT/CHECKED	LONG/R	DIPHTHONG/FREE	
i kit	ɪ near	ij fleece	
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ʌ foot	(ʌː cure)		əw goose
ə strut	əː nurse		əw goat

phonotactics

the similarity of CC and “diphthong” phonotactics

pj	*	kj
*	tw	kw

≈

ɛj	*	aj
*	əw	aw

phonotactics

the similarity of CC and “diphthong” phonotactics

pj	*	kj
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glides in cluster and alone

pure pyo: rape re;jp quad kwod couch kawtʃ

poor po: rep re;p cod kod catch katʃ

your jo: ray re;j wad wod cow kaw

click klik milk milk trap trap hunt hənt

kick kik Mick mik tap tap hut hət

lick lik mill mil wrap rap Hun hən

the distribution of glides

no glide after short stressed vowel

	l	r	j	w	h
# — V	lay <i>lɛj</i>	ray <i>rɛj</i>	yea <i>jɛj</i>	way <i>wɛj</i>	hay <i>hɛj</i>
C — V	clay <i>klaɪj</i>	grey <i>grɛj</i>	cue <i>kjuːw</i>	dwell <i>dwel</i>	*
V — V	allay <i>əlɛj</i>	array <i>ərɛj</i>	beyond <i>bəjónd</i>	away <i>əwɛj</i>	ahead <i>əhéd</i>
Á — V	ally <i>álaɪj</i>	arrow <i>árəw</i>	*	*	*

the distribution of glides

no glide after short stressed vowel

	l	r	j	w	h
# — V	lay <i>lɛj</i>	ray <i>rɛj</i>	yea <i>jɛj</i>	way <i>wɛj</i>	hay <i>hɛj</i>
C — V	clay <i>klaɪj</i>	grey <i>grɛj</i>	cue <i>kjuːw</i>	dwell <i>dwel</i>	pay <i>phej?</i>
V — V	allay <i>əlɛj</i>	array <i>ərɛj</i>	beyond <i>bəjónd</i>	away <i>əwɛj</i>	ahead <i>əhéd</i>
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C — V	clay <i>klaɪ̯j</i>	grey <i>grɛj</i>	cue <i>kju̯w</i>	dwell <i>dwel</i>	
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́ — V	ally <i>álj</i>	arrow <i>árəw</i>	*	*	*

only after R vowels (long vowels and unstressed ə)

Darwin *dá:wɪn*, Malawi *məlá:wij*, narwhal *ná:wəl*, Ottawa *ótəwə*, yahoo *já:həw*, Monahan *mónəhən*, sawyer *só:jə*

the distribution of glides

no glide after short stressed vowel

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# — V	lay <i>lɛj</i>	ray <i>rɛj</i>	yea <i>jɛj</i>	way <i>wɛj</i>	hay <i>hɛj</i>
C — V	clay <i>klaɪ̯j</i>	grey <i>grɛj</i>	cue <i>kju̯w</i>	dwell <i>dwel</i>	
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possible explanation: “diphthong” = short vowel + glide

neon *níjən*, crayon *kréjən*, lion *lájən*, royal *rójəl*, vowel *váwəl*, Noah *náwə*, fuel *fjʉ:wəl*

epenthesis

consonant clusters may be split by epenthesis

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- F **mɛtr** > E **mijtə(r)**, OF **simpl** > E **simpəl**, F **prizm** > E **prizəm**

epenthesis

consonant clusters may be split by epenthesis

- ▶ F **mɛtr** > E **mijtə(r)**, OF **simpl** > E **simpəl**, F **prizm** > E **prizəm**
- ▶ matches **matʃ+z** > **matʃəz**, fitted **fit+d** > **fitəd**

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- ▶ IrE elm **ɛl(ə)m**, farm **fɑr(ə)m**, earn **ərn(ə)n**, girl **gə:rl(ə)l**

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“breaking” is epenthesis!

sire **sájr** > **sájə(r)**, fear **fíjr** > **fíjə(r)**, sour **sáwr** > **sáwə(r)**

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no epenthesis if the cluster is not word final

metric **métrik**, simplest **símpləst**, Miley Cyrus **májlɪj sájrəs**

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so why does everybody talk about diphthongs?

history, spelling, tradition

the Middle English long vowels are the Modern English diphthongs

price **pri:s** mouth **mu:θ**

fleece **fle:s** goose **go:s**

meat **mɛ:t** goat **gɔ:t**

face **fa:s**

price **praɪs** mouth **mawθ**

fleece **flij̩s** goose **gʊws**

meat **mij̩t** goat **gəwt**

face **fɛjs**

history, spelling, tradition

the Middle English long vowels are the Modern English diphthongs

price pri:s	mouth mu:θ
fleece fle:s	goose go:s
meat mɛ:t	goat gɔ:t
face fa:s	

price praj:s	mouth mawθ
fleece flij:s	goose g <u>u</u> ws
meat mij:t	goat gəwt
face fejs	

ME long–short alternations are ModE diphthong–short alternations

keep kijp—kept kept, grave grejv—gravity gravetij, mime majm—mimic mimik, south sawθ—southern seðən, holy həwlij—holiday holidej, fool fuwl—folly folij

history, spelling, tradition

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tradition

ɛj is called long A, a is called short A, etc

stress

do diphthongs behave like VC?

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- ▶ agree *əgrɪj* vs punish *pénɪʃ*

stress

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- ▶ agree *əgrɪj* vs punish *pénɪʃ*
- ▶ arcade *a:kéjd* vs stipend *stájpɛnd*

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but...

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but...

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- ▶ decade *dékεjd*, defense *dəfén̩s*

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but...

- ▶ carry *kárij*, omit *əmít*
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- ▶ Cyclopean *sajkléwpijən*, persimmon *pəsímən*

stress

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so...

stress does not provide conclusive evidence for the diphthong analysis

flapping

t is pronounced as r between vowels

problem: if diphthongs are VC, we do not expect flapping after them

flapping

t is pronounced as r between vowels

problem: if diphthongs are VC, we do not expect flapping after them

flapping also occurs after some consonants

	GeneralAm	NZ basilect	NZ acrolect
fatter	fatə	✓	✓
farter	fa:tə	✓	✓
fighter	fajtə	✓	✓
Fanta	fantə	✓	✗
faster	fastə	✗	✗
factor	faktə	✗	✗

geminates

English has no morpheme-internal geminates

geminates only occur across a morpheme boundary: *un#nerved* énná:vд, *homemade* héwmmɛjd, *black#currant* blákkérənt, *dis#satisfied* díssátisfajd

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is there jj or ww?

dasyure dásijjo:, diuresis dájjéríjsəs, maieutic mɛjjéwtik, pyuria pajjó:rɪjə, Shijiazhuang ʃíjjə:dʒwáŋ, sukiyaki súwkijjá:kij, Taiyuan tájjéwán, triune trájjéwn, Beowulf bέjəwwélf, Hluhluwe ʃléʃléwwej, powwow páwwaw

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dasyure dásijjo:, diuresis dájjéríjsəs, maieutic mɛjjéwtik, pyuria pajjó:rɪjə, Shijiazhuang ʃíjja:dʒwáŋ, sukiyaki súwkijjá:kij, Taiyuan tájjéwán, triune trájjéwn, Beowulf bέjəwwélf, Hluhluwe ʃléʃléwwej, powwow páwwaw

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wj alleluia áləlwwjə, bouillon bélwjon, cocoyam kéwkəwjam, Gruyere gréwjɛ:, Kikuyu kíkélwjəw, thuya θjéwjə, yoyo jéwjəw

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simplest analysis

FLEECE, GOOSE, GOAT are KIT, FOOT, STRUT followed by a glide

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the observation

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perhaps

:=h or r, but we then have “geminates”: *Tahiti* ta:híjtij, *Sahara* səhá:rə

the vowel system of British English

-Ø

-ɪ

-j

-w

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- ▶ there's no hiatus in English, “free vowels” are VC