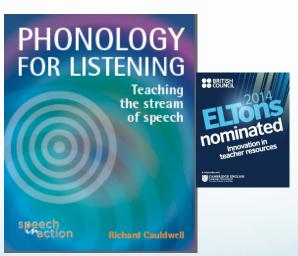
What can Pronunciation Teachers Learn from Spontaneous Speech?

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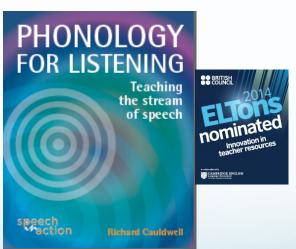






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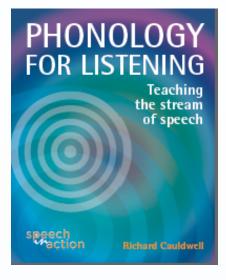
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Richard Cauldwell

Teacher, freelance author, publisher, teacher trainer, spontaneous speech enthusiast

- ELT teacher since 1979
- PhD supervised by David Brazil
- Discourse Intonation
- Not a phonetician
- Expertise in turning recordings of fast spontaneous speech into learning materials

Phonology for Listening





- Part 1 The window on speech
- Part 2 Describing spontaneous speech
- Part 3 Accents, identity and emotion in speech
- Part 4 Teaching Listening

Greenhouse



So then I could not play any more

My parents would not let me have one

Garden



So then I couldn't play any more

My parents wouldn't let me have one

Jungle



So then I couldn't play any more

My parents wouldn't let me have one

Greenhouse & Jungle Garden Acted speech Spontaneous speech Unruly, messy Rule-governed, tidy Unpredictable, but 'true' Useful, but 'wrong' Careful Speech **Spontaneous Speech** Model Model

CSM

The model of speech which dominates ELT is

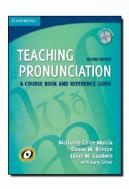
- Careful Speech Model
 - · an emulation model
 - suitable for clear pronunciation
 - dominates the 'speech model space' in ELT
 - CSM guidance is inappropriately turned into rules which are believed to be true of spontaneous speech
 - these 'rules' are hypotheses either waiting to be falsified, or already falsified

Connected speech rules Garden rules

Definitions for connected speech range from non-mechanical speech (Roach, 2009), to 'the fluent continuous speech performance of everyday life' (Nolan & Kerswill, 1990: 295)

- Linking you are 'you wah'
- Assimilation did you 'di jew'
- Deletion East coast counties 'East coast counties'
- Question intonation 'Do you live in London?'
- Stress-timing 'he RAN all the WAY to the STAtion'
- Emotion and attitude 'High fall means surprise'

Genteel handshakes



Linking

- Insertion of /y/glides
 - be able, stay up, try out
 - 'be yay bull', 'stay yup', 'try yout'
- Insertion /w/ glides
 - do it, go away
 - 'doo wit', 'go wah way'

Walk to the jungle







Greenhouse	Garden
be able	be yay bull
stay up	stay yup
try out	try yout
do it	doo wit
go away	go wa way

Walk to the jungle



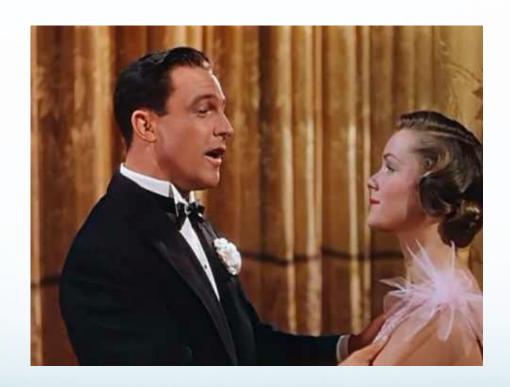




Greenhouse	Garden	Jungle
be able	be yay bull	baybull
stay up	stay yup	stape
try out	try yout	trout
do it	doo wit	doot
go away	go wa way	gway

Singing in the rain

Connected speech rules such as linking are best contemplated in the garden, at leisure ...



You are my lucky star 0.73 syllables per second 36 words per minute

Singing in the rain



Connected speech rules such as linking are best contemplated in the garden, at leisure ...

You are my lucky star

I saw you from afar

Two lovely eyes, at me they were gleamin', beamin'

I was star-struck

You're all my lucky charms

I'm lucky in your arms

You've opened heaven's portal here on earth for this poor mortal

You are my lucky star

You are my lucky star 0.73 syllables per second 36 words per minute

Speed

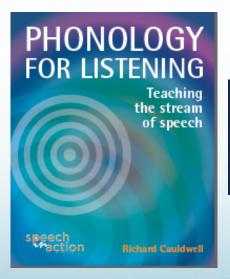
SLOW	AVERAGE	FAST
90 wpm	180 wpm	240 wpm
2.0 sps	4.0 sps	5.3 sps

You are my lucky star - 0.73 syllables per second

SSM

Where is the Spontaneous Speech Model?

- in the evidence of recordings
- in everyday normal speech
- in our key texts (e.g. Gimson/Cruttenden)
- but 'hidden'
- in Part II of 'The Book'





Why bother? Different goals

Listening and Pronunciation

'the goals for mastery are different'

. . .

'... our goal as teachers of listening is to help our learners understand fast, messy, authentic speech ... [which] ... is much more varied and unpredictable than what they need to produce in order to be intelligible' Celce-Murcia et al 2010 we therefore need a model of spontaneous speech

Greenhouse & Garden	Jungle
Acted speech Rule-governed, tidy Useful, but 'wrong'	Spontaneous speech Unruly, messy Unpredictable, but 'true'
Careful Speech Model	Spontaneous Speech Model
Pronunciation/ Intelligibility	Listening

The more tidy the rule, the more wrong it is likely to be

Drafting Phenomena I Jess and Toby

```
01 || AHM ||
02 || AH ||
03 || AHM ||
04 || ERM ||
05 || ER ||
06 || ERM ||
      'The Book' Chapter 6
```

Drafting phenomena II

Speaker roles

```
|| it's NOT like you JUST kind of ||
|/ you KNOW just ||
|/ you know ||
|/ SIT there ||
|/ huh huh huh ||

// i mean LIFE is too SHORT ||
// PROBably to READ ||
```





Drafting phenomena III

```
01 || UM ||
02 || it STARTed ||
03 || when i was the ROSE seller ||
04 || in OLiver ||
```



Drafting phenomena IV



```
01 || MOST people GO there || 240
02 || for THE || 190
03 || for HOLLywood and for THE || 190
04 || LIGHTS || 70
05 || and THE || 120
06 || enterTAINment || 160
```

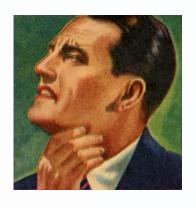
Careful Speech Rule-governed and tidy

Spontaneous Speech Unruly and messy

Function words have a few weak forms and are rarely prominent

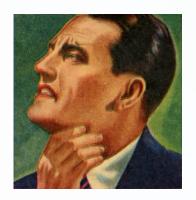
Function words have many weak forms and are often prominent

Dan's ands



```
01 || and I just STARTed ||
02 || and my VOICE just went [creak] ||
03 || and NOTHing came OUT ||
04 || and Everyone just WENT ||
05 || [SIGH] ||
06 || oh POOR YOU ||
07 || and then THAT was THAT ||
08 || and WE ||
08 || didn't get THROUGH ||
and ... and ... and ... and ... and
```

Dan's ands



|| and and and and and || an em im on an um

Sound cloud

1	2	3
an	en	in
	and	
on	un	um

Sound file matching

1	2	3
an	an	em
an	em	an
em	n	on
n	on	n
on	an	um
um	um	an

The six *and's* are all non-prominent. They occur before the first prominence in their respective speech units and sound close to *an*, *em*, *n*, *on*, *an* and *um*. The first *and* has a vowel close to |a|, as does the fifth, but the others approach |e| |b| and |A|.

Careful Speech Rule-governed and tidy

Spontaneous Speech Unruly and messy

Content words have one or two soundshapes

Content words have many soundshapes

Content words



```
A || STUdents ||
B || STUdents who'd WEAR ||
C || i THINK about TEN STUdents ||
D || a COUNcil called the student FAshion council ||
E || WHAT the students at their SCHOOL were WEARing ||
```

Careful Speech Rule-governed and tidy

Spontaneous Speech Unruly and messy

People speak in clauses and phrases

People speak in rhythmic bursts

Rhythmic bursts



```
01 || UM || 1.9

02 || FOR || 1.7

03 || aBOUT || 2.6

04 || two YEARS || 2.9

05 || mmHMM || 7.2

06 || and then they FInally bought a BIG house ||7.5

07 || a BIgger house for US || 6.5

08 || to be Able to LIVE in || 8.8

09 || so we MOVED || 4.6

10 || for THAT REASON || 7.6
```

'Stress timing'



|| a a CERtain proPORtion of THAT ||

Irrhythmicality



```
01 | it's PRObably ||
02 || i MEAN ||
[creak]
03 | MILEagewise | |
04 ||...square mile ... || (it's where my)
05 ||...i mean ... ||
06 | it's PRObaBLY ||
07 | the COUNty is like maybe | |
08 | FIFty SEventy five MILES wide | |
09 | AND | |
10 || the CIty is ONly ||
[pause]
11 | a a CERtain proPORtion of THAT | |
```

Speed

SLOW	AVERAGE	FAST
90 wpm	180 wpm	240 wpm
2.0 sps	4.0 sps	5.3 sps

'The Book' Chapter 7

You are my lucky star - 0.73 syllables per second

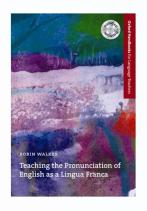


5	4	3	2	1	speed
this is	ONE	i'm going to be looking at in slightly more		tail in fact	9.3 - 400



5	4	3	2	1	speed
and then they	FI	nally bought a	BIG	house	7.5-340

and then they 14.3 sps



5	4	3	2	1	
and then we were	AL	SO	TALK	ing about	8.0 - 330
		the	AC	ent	4.1 - 160

Hungarian L1

and then we were 9.5

were also 98.0



3	2	1	
we don't have	AN	y technology teachers	7.1

The first three syllables 'we don't have' go at 10.5 spa

'The App' Emily

Speed

Roach (2009:111)

In rapid, casual speech the t will become p before a bilabial consonant, as in: 'that person' ..

```
|| that person || 4.0 sps
|| ten girls || 2.1 sps
```

Careful Speech Rule-governed and tidy

Spontaneous Speech Unruly and messy

Genteel contact words shake hands Linking rules

Violent contact
Consonants and
syllables are murdered

Consonant death

[wei ə mı:ı ∫iz gɛɪŋ ı fɔr yu]

James Kirchner

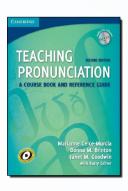
Consonant death

[wei ə mı:ı ∫iz gɛɪŋ ı fɔr yu]

(wait a minute, she's getting it for you).

James Kirchner

Genteel handshakes



Linking

- Insertion of /y/glides
 - be able, stay up, try out
 - 'be yay bull', 'stay yup', 'try yout'
- Insertion /w/ glides
 - do it, go away
 - 'doo wit', 'go wah way'

Walk to the jungle







Greenhouse	Garden
be able	be yay bull
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go away	go wa way

Walk to the jungle



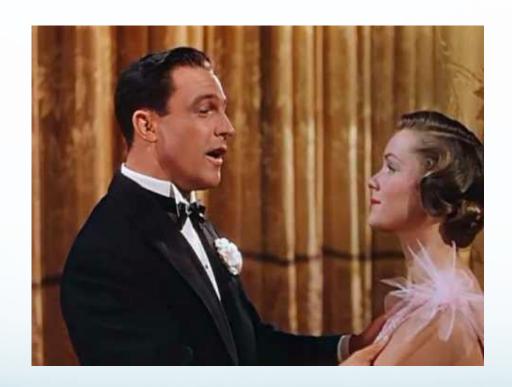




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be able	be yay bull	baybull
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go away	go wa way	gway

Linking: Singing in the rain

Connected speech rules can only be heard in special circumstances because...



You are my lucky star 0.73 syllables per second 36 words per minute

Linking: singing in the rai



Connected speech rules can only be heard in special circumstances because...

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I saw you from afar

Two lovely eyes, at me they were gleamin', beamin'

I was star-struck

You're all my lucky charms

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SLOW	AVERAGE	FAST
90 wpm	180 wpm	240 wpm
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You are my lucky star - 0.73 syllables per second

Linking

these are /r/ enormous sums of money for people to /w/ actually /j/ invest in cough cold remedies

```
01 || these are eNORMous || 6.9
02 || SUMS of MONey || 7.7
03 || for PEOPle to actually inVEST in || 5.8
04 || in COUGH cold Remedies || 3.7
```

Linking

these are /r/ enormous sums of money for people to /w/ actually /j/ invest in cough cold remedies

```
|| ... are eNORMous SUMS ... ||
|| ... to actually ...||
|| to ACTually inVEST ||
```

Oakey & Treece (n.d.)

Where is the SSM?

Cruttenden (2014: 333)

uncommon reduced forms which are heard only in rapid speech and these should not be imitated by foreign learners. The use of |jə| or |mə| in such phrases as your mother, my father will sound slangy and, if employed inappropriately by a learner, could appear comically incongruous.

SSM - translation needed

Cruttenden 2014 13.3.3

uncommon reduced forms which are heard only in rapid speech and these should not be imitated by foreign learners. The use of |jə| or |mə| in such phrases as your mother, my father will sound slangy and , if employed inappropriately by a learner, could appear comically incongruous.

uncommon = very likely to happen
only in rapid speech = very commonly in normal speech
these should not be imitated = these need to be learned for listening
by foreign learners = by learners

SSM - translation needed

'It must be pointed out ... that the evidence for the existence of truly stress-timed rhythm is not strong' Roach (2009 p.110)

translation:

All the evidence points to the fact that stress-timing does not exist.

SSM - translation needed

'It must be pointed out ... that the evidence for the existence of truly stress-timed rhythm is not strong' Roach (2009 p.110)

translation:

WTF???!!!???

Cruttenden (2014: 322)

The foreign learner is recommended to aim at a *relatively* careful pronunciation of English in his own speech but to be aware of the features which characterise more casual pronunciation, particularly by native speakers.

```
I can try and book some seats round the corner (1) at ken 'trat en 'bok sem sitts/ 'raond de 'koine (2) a(t) kn 'trat m 'bok sm sitts/ raon de 'koine
```

'relatively' is not in the 2nd Edition





- It is important for teachers to achieve a greater understanding of the nature of the speech signal (Field, 2008: 140-141)
- The purpose is ... To equip teachers of listening with sufficient information for them to be able to identify the areas which are most likely to give rise to decoding problems (Field, 2008: 141)





- The same words in a wide range of context and voices (Field, 2008: 166)
- Words take their shapes from the intonation group as a whole and may not be identifiable until the whole group has been heard (Field, 2008: 196)

Experts mention

- Experts do mention the truth, but
 - (a) they present cookie rules first
 - (b) it takes careful reading to find the truth (footnotes, last paragraph of section)
 - (c) their comments have to be translated
 - (d) you have to resist the temptation of the cookies

CSM - a reason to chastise

- The CSM is used (perhaps sometimes, perhaps a lot) to chastise and castigate those people who do not conform to the standards and rules of the CSM
- By these standards, most native and expert speakers would fail to match the standards of the CSM
- All hail the SSM for all will be forgiven.

ELT a cookie monster



ELT a cookie monster



- We like cookie rules which are
 - teachable
 - learnable
 - examinable

and which can be explained in writing and inspected at leisure

Offer

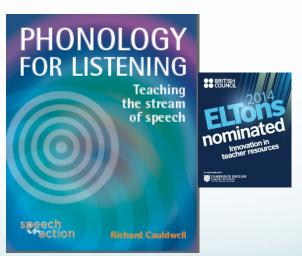
Thank you
If you enjoyed this presentation, and/or found
it useful
Please invite me to speak!
(There's so much more to say)

If you did not enjoy this presentation, and/or found it useless
Please recommend me to colleagues in rival institutions



Thank you www.speechinaction.com





ELF Examples



Turkish L1

```
01 || YEAH || 3.3
02 || that's WHAT i'm TALKing about || 5.4
03 || that's THE || 2.9
04 || eh ACTually YOU'RE || 5.5
05 || YOU have a LOT of friends || 4.0 hawa
[pause 0.435] ||
06 || MORE than (dan) || 2.9
07 || ... that ... || 2.5
08 || ... you could ... || 3.3
09 || HAVE withOUT THE || 3.6
10 || INTernet || 5.0
```

In 05 the syllables 'you have a lot of' go at 6.7 sps

ELF Examples



Turkish L1

```
01 || ... it's it's ... || 2.0
02 || it's EASier || 5.7
03 || YEAH || 2.5
04 || i KNOW || 5.0
05 || BUT UH || 2.9
06 || [breath 0.272] ||
07 || we are TOO dePENdant on THAT || 4.2
08 || ... uh WE ... || 4.0
09 || [pause 0.320] ||
10 || we HAVE FRIENDS || 4.3
11 || on the INTernet || 5.0 onny
```

The learner has not learned 'what it sounds like when said quickly, in an unemphasized position in a sentence and juxtaposed with other words ...'
(Ur, 1984: 17)

"...the failure to to move beyond the basic elementary pronunciation of spoken English must be regarded as disastrous for any student who wants to be able to cope with a native English situation."

(Brown 1990: 162)

Soundshapes

```
... kind of ... (Toby and Jess)
```

```
... probably ... (Toby and Sylvia)
```

- ... and they were like ... and they were all...
- ... and they go ... (Toby, Dan, Walker).

Soundshapes

```
... kind of ... kind of ... (Toby and Jess)

... probably ... probably ... (Toby and Sylvia)

... and they were like ... and they were all...

... and they go ... (Toby, Dan, Walker).
```

Soundshapes

```
... kind of ... kind of ... (Toby and Jess)

... probably ... probably ... (Toby and Sylvia)

... and they were like ... and they were all...

... and they go ... (Toby, Dan, Walker).
```

ELF

```
01 II and they GO to celeBRATE II
02 II outSIDE the II
03 II BIG CITies II (Walker)
04 II i WON'T say it's a it's PRESent II
(Dorah)
05 II they HIRED a CAR FOR II
06 II a FEW II
07 II DAYS II
08 II probably a WEEK II (Sylvia)
```

ELF

```
01 II and they GO to celeBRATE II
02 II outSIDE the II
03 II BIG CITies II (Walker)
04 II i WON'T say it's a it's PRESent II
(Dorah)
05 II they HIRED a CAR FOR II
06 II a FEW II
07 II DAYS II
08 II probably a WEEK II (Sylvia)
```

ELF

```
01 II and they GO to celeBRATE II
02 II outSIDE the II
03 II BIG CITies II (Walker)
04 II i WON'T say it's a it's PRESent II
(Dorah)
05 II they HIRED a CAR FOR II
06 II a FEW II
07 II DAYS II
08 II probably a WEEK II (Sylvia)
```

Sound file matching

1	2	3
ebbler	able to	awol
evil	abler	abler
able to	awol	ebbler
awol	ebbler	able to
abler	evil	evil

Read down each column savouring each 'word' slowly and carefully, and then speed up saying them as fast and 'non-prominently' as possible Listen to the soundfile: which column best represents the order of the 'word's?

Sound file matching

1	2	3
ebbler	able to	awol
evil	abler	abler
able to	awol	ebbler
awol	ebbler	able to
abler	evil	evil

```
|| to be ABle to LIVE in || | |
|| we were ABle to do LOTS of FUN things ||
|| i had the SKILLS || to be able to TEACH ||
|| our COACH is ABle TO || GIVE us JOBS ||
|| ABle TO ||
```

Jungle Listening -Soundshapes of *little*

- littoo (the final |l| sounds close to 'oo' 'too')
- liddle(the |t| sounds close to |d| as in the word 'middle')
- lirrel(the |t| sounds close to |r| as in the word 'mirror')
- li?oo (the |t| is replaced by a glottal stop)
- **lil** (the |t| is missing entirely)
- likkul (the |t| is like a |k|)

Jungle Listening - little

		little	liddle	littoo	lirrul	li?oo	likkul	lil
1	there was ONly a little bit of FOOD		X					
2	there was ONly a little bit of THIS							
3	there was ONly a little bit of THAT							
4	there was ONly a little bit of THIS							
5	there was ONly a little bit of THIS							
6	there was ONly a little bit of THIS							
7	there was ONly a little bit of THIS							

Jungle Listening - little

		little	liddle	littoo	lirrul	li?oo	likkul	lil
1	there was ONly a little bit of FOOD		X					
2	there was ONly a little bit of THIS				Χ			
3	there was ONly a little bit of THAT	Χ						
4	there was ONly a little bit of THIS							X
5	there was ONly a little bit of THIS						Χ	
6	there was ONly a little bit of THIS				Χ			
7	there was ONly a little bit of THIS					X		

Word clusters

a couple of

a lot of

and it was a

and that was the

and so they were

and they are

and it is

and so it

and at the

and like this

and i was

5	4	3	2	1
this is	ONE	i'm going to be looking at in slightly more	DE	tail in fact
and	I	just	START	ed
	I	realised that i'd left my purse at	HOME	

Guideline	Make 'past tense' t and d inaudible in front of both consonants and vowels
Non-prominent soundshapes	realis ed she > real ise she realis ed it was > reali se it was
Example speech units	HE realise she was GONE I realise it was HER

5	4	3	2	1
this is	ONE	i'm going to be looking at in slightly more	DE	tail in fact
and	I	just	START	ed
	I	realised that i'd left my purse at	HOME	

Remove final |t| and |d| before Guideline consonants and vowels left bank > leff bank Non-prominent left open > leff open soundshapes against it > again sit kind of > kyne uv || it's ON the leff bank NOW || **Example** || it WAS leff open aGAIN || speech units || HE'S again sit NOW || HE'S kyne of NICE ||

5	4	3	2	1
this is	ONE	i'm going to be looking at in slightly more	DE	tail in fact
and	I	just	START	ed
	I	realised that i'd left my purse at	HOME	

```
Make the final |t| of that and at
Guidelines
                    into glottal stops before
                       consonants and vowels
                        that must > |ðæ?| muss
Non-
                           at our > |æ?| our
prominent
soundshapes
                         at about > |æ?| about
                   || i'm SURE tha'muss HURT ||
Example
                    || SHE'S a'our house NOW ||
speech units
                 || i'll be THERE a'about TEN ||
```

5	4	3	2	1
this is	ONE	i'm going to be looking at in slightly more	DE	tail in fact
and	I	just	START	ed
	I	realised that i'd left my purse at	HOME	

Remove the initial consonant | 0| **Guidelines** of that, this, the after both consonants and vowels realise that > realizat Nonand then > annen prominent in the > inner soundshapes for this > for iss see that > see ut || I realizat i'd LEFT it || || he CAME annen WENT || **Example** || i SAW them inner GARden speech units || i've PLANS foriss EVEning || || can YOU see ut it's GOOD ||

5	4	3	2	1
this is	ONE	i'm going to be looking at in slightly more	DE	tail in fact
and	I	just	START	ed
	I	realised that i'd left my purse at	HOME	

```
Make every diphthong a
                     monophthong based on its first
Guidelines
                     element
                                realise > rill eyes
                                my time > ma tam
Non-prominent
                                boy's a > bore's a
soundshapes
                                  able > ebble
                                  out of > atta
                                  south>saath
                        || I rill eyes it's LOST ||
                      | he SAID ma tam's FINished | |
Example speech
                        she SAID the bore's a FOOL | |
units
                      | | he's NOT ebble to DO that | |
                            || HE'S atta LUCK ||
```

5	4	3	2	1
this is	ONE	i'm going to be looking at in slightly more	DE	tail in fact
and	I	just	START	ed
	I	realised that i'd left my purse at	HOME	

```
Avoid full closure for the
Guidelines
                         stop consonants |p,t,b,d|
                               purse > furss
                             cut it > currit |kurit|
Non-
                              a lot of> a lorruv
prominent
                             produce > pro-use
soundshapes
                            middle> mill able> ale
                               total> toll
                     || i LEFT my furss at HOME ||
                   | it's BETter to currit OPen ||
Example
                     | he SPOKE a lorruv SENSE ||
speech units
                      in ORder to pro-use COFFee ||
                      NEAR the mill of the PAGE ||
```