#PronouncingThingsIncorrectly: Initial phonological generalizations of a novel internet word game

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What is #PronouncingThingsIncorrectly?

An internet language game developed and popularized by viner Chaz Smith.

General format:

- Close up of face, "Pronouncing things incorrectly"
- Series of shots of text with mispronunciations





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General format:

Vine is a social video microblogging platform. Users post videos of up to 6 seconds.

Stres or shots or text with
 mispronunciations





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Orthography:	Original transcription:	Mispronunciation:
original	əˈrɪdʒ ə nl	pr idz 'p nəl
skittles	'skɪt ls	skɪt 'tɪt ɪl iz
body	'bod i	'bu ti
wash	law	wɪʃ
mayonnaise	mei ə'neiz	me pn nə nə 'æs i
рор	qaq	pup
secret	'si krɪt	sı krit
diamond	'daɪ mənd	di ə 'mpn di
cologne	kəˈloʊn	kɒl 'ɒg ni



Data used in analysis

- 25 total words
- Three vines:
 - 7th: https://vine.
 first
 co/v/eBMZK0j1nLK
 - 8th: https://vine.co/v/em2wuYT26Vp
 - o 12th: Previous slide
- All take place in grocery store
- Earlier examplesless regularsecond





Phonological Characteristics

- 1. Vowel Harmony
- 2. Resyllabification
- 3. Stress Reassignment



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But what about number of syllables?

To correct for the mispronunciations having more syllables (and thus more chances for vowels to co-occur):

- 1. Only looked at multisyllabic words
- 2. Count how many different vowels there are in a word (types)
- 3. Count how many total vowels there are in a word (tokens)
- 4. Divide value from 2 by value from 3

A long word with complete vowel harmony has a lower score than a shorter word with complete vowel harmony.

Note: Very conservative measure! Only looked at repetition of the *same* vowel.



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Examples

'dar mənd

- Count how many different vowels there are in a word (types)
 - a. ai, ai = 2 types
- 2. Count how many totals vowels there are in a word (tokens)
 - a. ai, $\theta = 2$ tokens
- 3. Divide 1 by 2
 - a. 2/2 = 1
 - b. maximum value, no vowel harmony

di ə 'mpn di

- Count how many different vowels there are in a word (types)
 - a. i, θ , p = 3 types
- Count how many totals vowels there are in a word (tokens)
 - a. $i \times 2$, θ , p = 4 tokens
- 3. Divide 1 by 2
 - a. 3/4 = 0.75
 - b. Some vowel harmony



Examples

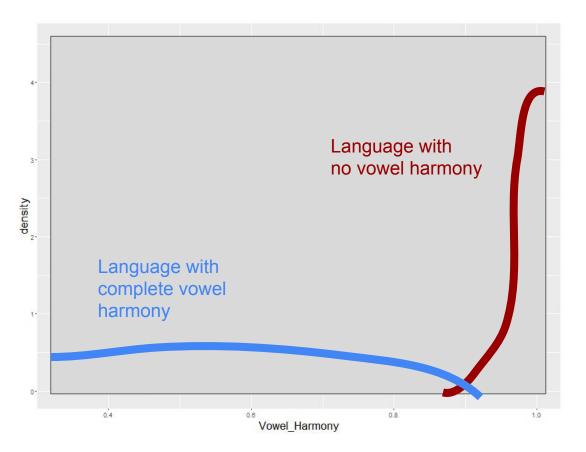
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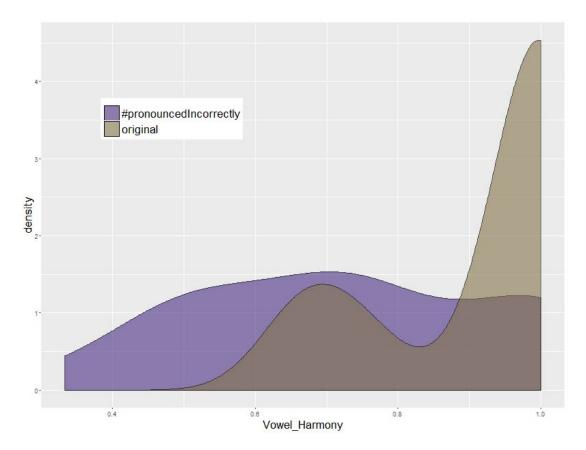
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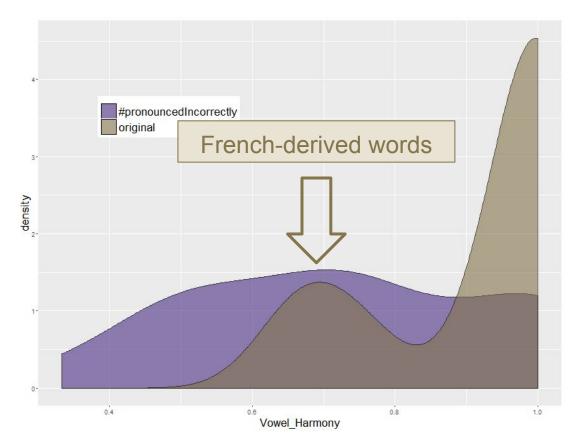
Hypothetical chart





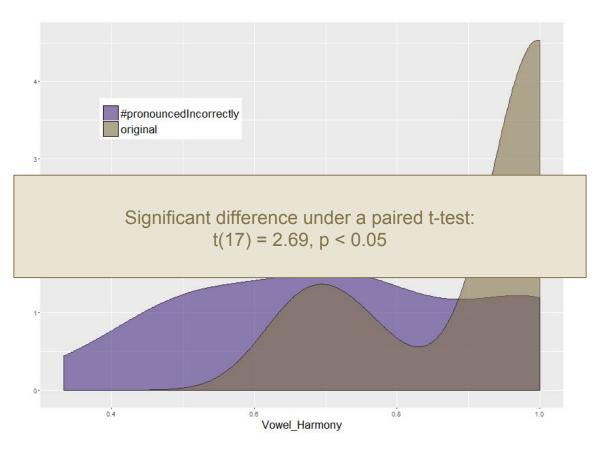
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diamond	'daɪ mənd	ib nam' e ib	+2
cologne	kəˈloʊn	kɒl 'ɒg ni	+1



General Observations

- More syllables in mispronunciations
 - Average of 0.52 more syllables/word
- Shorter/simpler syllables
 - Maximum structure in original: CCVCC
 - Maximum structure in mispronunciations: CCVC
 - Most syllables (36/57 = 63%) in original have codas
 - Most syllables (38/70 = 54%) in mispronunciations *do not* have codas

AND

Relies on orthography



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AND:

Relies on orthography (!)



Orthographic vowels & double consonants

Vowels:

"cologne" written with three vowels, pronounced with three syllables:

kə loun -> kol 'bg ni

Double consonants:

"Skittles" written with double consonant, gets an extra syllable:

'skit ls -> ski 'tit il iz



But is the use of orthography reliable?

Yes!

Linear model that predicted # of syllables using:

- 1. Number of vowels + number of double consonants
- 2. Number of syllables in original pronunciation

Performed significantly better (F(22) = 6.74, p = 0.016) than one that only included syllables in pronunciation

Resyllabification is dependent on orthography!



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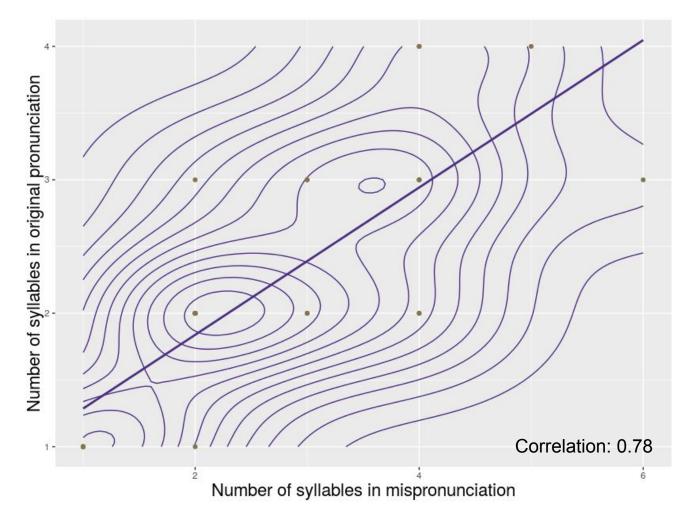
Linear model that used

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- 2. Number of syllables in original word

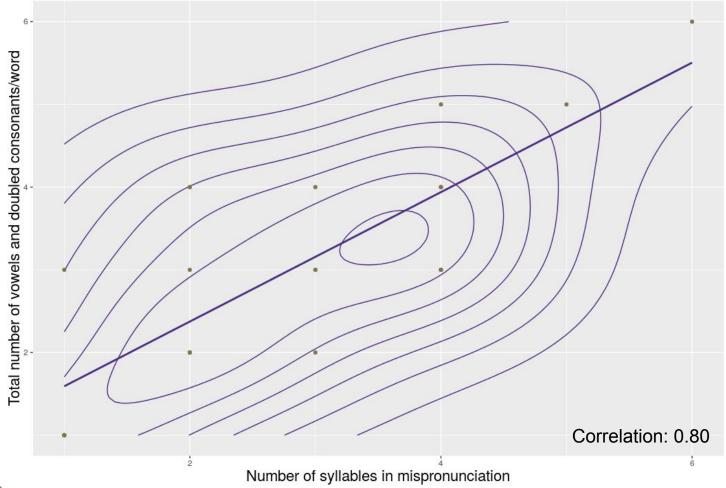
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Stress placement

Really pretty regular!

Stress assignment:

- Trochees
- From right edge
- Rightmost foot gets primary stress

Examples
(pr 1q2) (pn al)
('bu ti)
lyn (' tʃɒb les)
(me pn) (nə nə) (' æs i)
(di ə) ('mɒn di)
kol (' pg ni)
(pi Jpk) ('si di)
(na i') (aw ah)



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(na i ') (aw ad)			



Some "problem cases":

1	"Skittles"	skt '	tit il iz
Ι.	JNILLICS	21/1	LEL II IC

- 2. "jalapenos" dʒə 'lɒ pən oz
- 3. "secret" sı krit
- 4. "Generation" 'gi ni i Jə toɪn



Some "problem cases":

- 1. "Skittles"
- 2. "jalapenos"
- "secret"
- 4. "Generation"

ski 'tit iliz də 'lo pən (z) sı 'krit 'qi ni i yə toin

Plural morphemes could be extrametrical if they have their own syllable



Some "problem cases":

- 1. "Skittles"
- 2. "jalapenos"
- 3. "secret"
- 4. "Generation" 'qi ni i Jə təin

ski 'tit il(z)
dyə 'lo pən (z)
sı 'krit
'di ni i yə tərn

Plural morphemes could be extrametrical if they have their own syllable

Although:

```
"Lunchables" -> lyn ('tfpb les)
```

"Cheerios" -> (**'tʃwb** Jos)



Some "problem cases":

- 3. "secret"
- 4. "Generation" 'gi ni i Jə təɪn

ski **'tit** il iz

sı ˈkrit

Could be for humorous effect: was part of a phrase pronounced "poop secrete"



Some "problem cases":

- 3. "secret" sı krit
- 4. "Generation" 'gi ni i aə torn

ski **'tit** il iz





Most words follow pattern

Really pretty regular!

Stress assignment:

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- From right edge
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Are these completely regular?

Nope.

Often ignored if:

- There's a more humorous alternative
 - "pop secret" pronounced "poop secrete", violating stress assignment process
 - Really good example! https://vine.co/v/ivgtdrmF32e
- Another transformation takes place
 - "Glade" to "Ebola"
- Player is less fluent with game:
 - Many examples (both fluent and less-fluent) on #PronouncingThingsIncorrectly tag on Vine
 - https://vine.co/tags/PronouncingThingsIncorrectly



So what?

- 1. Possible experimental elicitation paradigm!
 - a. Especially for work on stress/syllabification
- 2. Highlights some pressures on English
 - a. Preference for regular stress assignment
- 3. Clear example of impact of orthography
 - a. Follows with experimental evidence (e.g. Welcome & Alton 2015)



What else?

Lots of possibilities!

- More complete analysis of vowel harmony, beyond just segment repetition
- Something going on with lax/tense vowels
- More data collection!
 - Note that Smith is familiar with this analysis, so it's possible that it may influence his future Vines
- Possible L1 effects?
- More formal analysis
- Others?

References

Smith, C. (2015, April) #PronouncingThingsIncorrectly Pt. 7 (IB Quinn And Joe) [Video file]. Retrieved from https://vine.co/v/eBMZK0j1nLK

Smith, C. (2015, May) #PronouncingThingsIncorrectly Pt. 8 at da groshwery stow [Video file]. Retrieved from https://vine.co/v/em2wuYT26Vp

Smith, C. (2015, September) #PronouncingThingsIncorrectly Pt. 12 [Video file]. Retrieved from https://vine.co/v/eQvv79FP2nV

Welcome, S. E., & Alton, A. C. (2015). Individual Differences in the Effect of Orthographic/Phonological Conflict on Rhyme and Spelling Decisions. *PloS one*, *10*(3), e0119734.



Thanks!

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peroxide	pəˈɹɒk saɪd	ib is' yar id	
diamond	'daI mənd	di ə 'mɒn di	
mayonnaise	meI əˈneIz	me ɒn nə rə 'æs i	
jalapenos	ha lə pein youz	фэ 'lɒ pən oz	
skittles	'skIt ls	skIt 'tIt Il iz	
hydrogen	'haī djə dzən	'hi di Jo g ɛ n	
original	əˈrɪdʒ ə nl	pr Idż 'p nəl	
generation	dʒɛn əˈreɪ ∫ən	'gi ni igton	
grape	greIp	darb	
cheese	tʃiz	t∫æz	
nut	n∧t	nut	
wash	wɒſ	wIſ	
рор	q a q	pup	44

	secret	ˈsi krɪt	sıˈkrit	
	success	s ə kˈs ɛ s	's∧k k ə s	
	cheddar	ˈtʃɛd ər	ˈtʃi təɹ	
	honey	ˈh∧n i	'hu ni	
	cheerios	ˈtʃɪəɹ iˌoʊs	sor awft,	
	tide	taId	'ti di	
	body	ˈbɒd i	'bu ti	
	lunchables	'l∧nʧ ə bəlz	lyn ' ʧɒ b les	
	tomatoes	təˈmeɪ toʊz	to 'mo toz	
	seventh	's εν ə nθ	sə 'vʌn ðə	
	cologne	kəˈloʊn	kɒl 'ɒg ni	
,	Hawaiian	həˈwaɪ ən	na i' aw ah	45

Does stress always move?

Nope!

About a third of the time (7/19 = 36%), when both the original and mispronunciation are multisyllabic, stress doesn't move.

(If you count from left edge)

Examples:

```
"Body" 'bɒd i -> 'bu ti
"Honey" 'hʌn i -> 'hu ni
"Cheerios" 'tʃɪəɹ i oʊs -> 'tʃwɒ ɹos
```

