

# Identifying and Treating Child Language Disorders **WITHIN** a Child's Dialect in Dialectally Diverse Communities

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PaTTAN, February 18, 2021  
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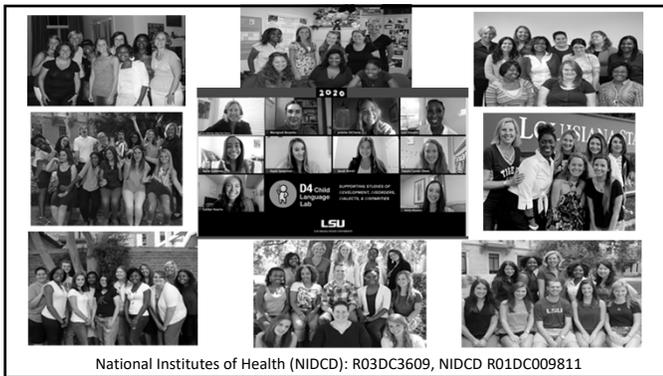
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National Institutes of Health (NIDCD): R03DC3609, NIDCD R01DC009811

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## Terminology

### Dialects by Category

- Mainstream
- Nonmainstream

### Dialects by Name

- General American English (GAE)
- African American English (AAE)
- Southern White English – rural (SWE)
- Cajun/Creole English (CE)
- Spanish-Influenced English (SE)
- AAE with Gullah/Geechee Influence (AAE-Gullah/Geechee)



### Dialects by Place

- Baton Rouge, New Orleans, Pierre Part, River Parishes
- Philadelphia, Pittsburgh (Pittsburghese), Rural Pennsylvania (Pennsylvucky)

Oetting, 2020; <https://leader.pubs.asha.org/doi/10.1044/leader.FMP.25112020.12/full/>

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## Terminology

Schools: Speech and Language Impaired

Research:

- Specific Language Impairment
- Developmental Language Disorder
- Primary Language Impairment

Today's Talk:

- Language Impaired (LI)
- Typically Developing (TD)




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## ASHA (1983)

No dialectal variety of English is a disorder or a pathological form of speech or language

Assessment: Distinguish dialect from disorder

Treatment: Treat only "true errors" not dialect differences



2-Box Model



<https://www.asha.org/policy/ps1983-00115/>

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## Dialect vs. Disorder

Child's Productions	Dialect	Disorder
Zero copula be	He happy	X
Zero third person	He walk	X
Zero plural s	Two shoe	X
Multiple negation	I don't want none	X
Pronoun appositve	My sister, she ....	X
Zero articles	I see shoe	X
Zero infinitive to	I want go shopping	X
Zero preposition to	I took Pam the store	X
Dialect specific past tense	drunk/drank	X
Dialect specific words	fixin, sposta, hafta	X



Test and treat productions that cannot be tied to a child's dialect

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### Other Quotes

Test results are invalid if the test taker comes from a background other than that of the test's normative sample (ASHA, 1983).

Methods used for collecting language data and the ways in which we approach their scoring and analysis should not be rooted in the majority culture (Craig, 1996).

Scoring systems that do not provide equal treatment to alternative language expressions lack validity (Vaughn-Cooke, 1983; Nelson, 1991).

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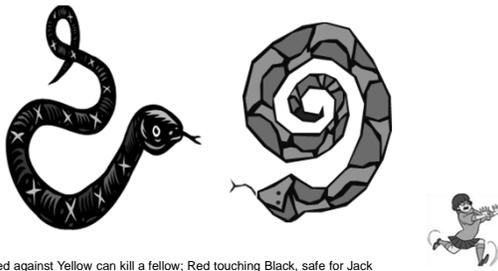
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### Snake Metaphor



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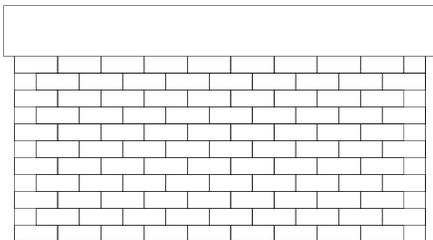
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### Wall Metaphor



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### New Framework: Diagnostic Conundrum

Nonmainstream dialects can appear identical to symptoms of childhood language impairments.

	Dialect Terms	SLP Deficit Terms
Tavis $\emptyset$ a boy.	zero copula be	Omission
Tavis $\emptyset$ walking.	Zero auxiliary be	Omission
Tavis drink $\emptyset$ milk everyday.	Zero third regular	Omission
Tavis finish $\emptyset$ fishing.	Zero past tense	Omission
Tavis, $\emptyset$ you want ice cream?	Zero do	Omission

Seymour et al., 1998; <https://pubs.asha.org/doi/abs/10.1044/0161-1461.2902.96>

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### Solution: Think about forms as one of two types

#### Contrastive

Forms that vary across Dialects  
Conundrum

- Past Tense
- Verbal -S
- Copular BE
- Auxiliary BE
- Auxiliary DO

#### Noncontrastive

Forms that DO NOT vary across Dialects  
No Conundrum

- Articles
- Conjunctions
- Demonstratives
- Locatives
- Negatives
- Prepositions
- Present progressive
- Pronouns

<https://pubs.asha.org/doi/abs/10.1044/0161-1461.2902.96>

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### Solution: Test and treat forms that avoid the conundrum

#### Contrastive

Forms that vary across Dialects  
Conundrum

- Past Tense
- Verbal -S
- Copular BE
- Auxiliary BE
- Auxiliary DO

#### Noncontrastive

Forms that DO NOT vary across Dialects  
No Conundrum

- Articles
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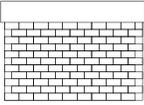
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### DELV Screener & Norm-Referenced Test

**Contrastive**  
Forms that vary across Dialects



**Noncontrastive**  
Forms that DO NOT vary across Dialects

- Articles
- Conjunctions
- Demonstratives
- Locatives
- Negatives
- Prepositions
- Present progressive
- Pronouns



<https://www.ventrislearning.com/delv/>

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Today this boy is at school. But yesterday he could not get out of bed, and his mother gave him some medicine. Why?

- |                        |                   |                          |                  |
|------------------------|-------------------|--------------------------|------------------|
| <b>Correct</b>         | <b>Incorrect</b>  | <b>Incorrect</b>         | <b>Incorrect</b> |
| Was                    | Omits was/uses is | something else           | NR               |
| He was sick.           | He sick.          | To make him feel better. | NR               |
| He wasn't feeling good | He's sick.        |                          |                  |

<https://www.ventrislearning.com/delv/>

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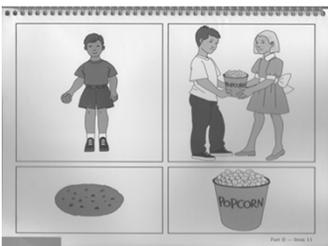
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He has a cookie. They have popcorn. The cookie is his. The popcorn is

- |                |                      |
|----------------|----------------------|
| <b>Correct</b> | <b>Incorrect</b>     |
| Theirs         | them/s/hes/hims/both |
| Hers/his       |                      |
| His and hers   |                      |

<https://www.ventrislearning.com/delv/>

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### DELV Screener & Norm-Referenced Test

**Contrastive**  
Structures that vary across Dialects

- Past Tense
- Verbal -S
- Copular BE
- Auxiliary BE
- Auxiliary DO



**Noncontrastive**  
Structures that DO NOT vary across Dialects

- Articles
- Conjunctions
- Demonstratives
- Locatives
- Negatives
- Prepositions
- Present progressive
- Pronouns



<https://www.ventrislearning.com/delv/>

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### Professional Outcome



Snake metaphor

Avoid nonmainstream dialects.



Wall metaphor

Work around nonmainstream dialects.

Both frameworks do not allow you to test or treat the child's entire language system!

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We no longer use the 2-box model of our field.

Dialect  
Contrastive

vs.

Disorder  
Noncontrastive

Oetting, Gregory, & Rivière, 2016; Oetting, 2018; Oetting et al., 2019; 2020

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We no longer use the 2-box model of our field.

Dialect  
Contrastive

vs.

Disorder  
Noncontrastive



What? Seriously?  
Not sure about this.  
I'm a member of ASHA  
Feeling uncomfortable!

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Single Box Model  
Disorder **WITHIN** Dialect

Dialect

Disorder

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Cross-Linguistic Framework

GAE	AAE	SWE	Bilingual	Trilingual	
⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴	⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴	⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴	⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴	⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴ ⤴	<div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div>Typically Developing</div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div>Language Impaired</div> </div>
					~10%

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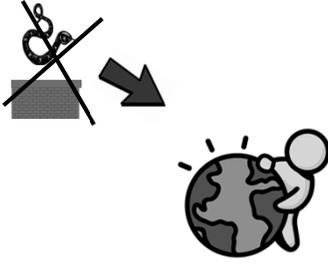
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### Disorders Within Dialects

This framework allows you to test and treat the child's entire language system.

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### All Dialects are Instruments of Expression



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Dialect vs. Disorder Diagnostic Conundrum	➔	Disorder within Dialects
How does dialect variation differ from LI?	➔	How does LI manifest in various nonmainstream dialects of English?
		How do some dialect-speaking children with and without LI differ from each other?

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### Over-Identification

73 African American children, aged 4-5 years, Head Start/Public PreK

*Diagnostic Evaluation of Language Variation: Screening Test:* Fail = 52%

*Fluharty Preschool Speech and Language Screening Test-2:* Fail = 56 – 75%

Washington and Craig Experimental Screener: Fail = 48%

Wynn & Oetting, under review; see also work by Cathy Qi

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### Under-Identification / Limited Access

Birth to 5 years; 9,600 children. Rate of SLP services per parent report at 24, 48, 60 mo. African American 45 – 60% less likely to receive services. Hispanic also less likely but other language accounted for differences.

K – 8<sup>th</sup> grade; 20,100 children. SLP services in schools. African American 57% less likely to receive services. Hispanic 33% less likely.

These studies control for SES and many other variables; Morgan et al. (2015; 2016)

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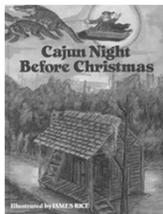
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### How do we learn about our children’s dialects?



Cute, fun to read

Great for celebrating dialects

Not accurate for clinical practice

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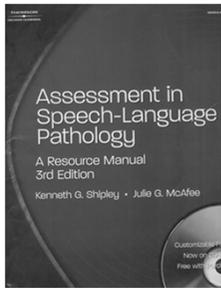
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Clinical Resources with Dialect Lists (circa 2000)




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African American English

AAE Feature/Characteristic	Mainstream American English	Sample AAE Utterance
Omission of noun possessive	That's the woman's car. It's John's pencil.	That the woman car. It John pencil.
Omission of noun plural	He has 2 boxes of apples. She gives me 5 cents.	He got 2 box of apple. She give me 5 cent.
Omission of third person singular present tense marker	She walks to school. The man works in his yard.	She walk to school. The man work in his yard.
Omission of "to be" forms such as "is, are"	She is a nice lady. They are going to a movie.	She a nice lady. They going to a movie.
Present tense "is" may be used regardless of person/number	They are having fun. You are a smart man.	They is having fun. You is a smart man.
Utterances with "to be" may not show person number agreement with past and present forms.	You are playing ball. They are having a picnic.	You is playing ball. They is having a picnic.
Present tense forms of auxiliary "have" are omitted.	I have been here for 2 hours. He has done it again.	I been here for 2 hours. He done it again.
Past tense endings may be omitted.	He lived in California. She cracked the nut.	He live in California. She crack the nut.
Past "was" may be used regardless of number and person.	They were shopping. You were helping me.	They was shopping. You was helping me.

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Spanish-Influenced English

Language Characteristics	Sample English Utterances
1. Adjective comes after noun.	The house green.
2. 's is often omitted in plurals and possessives.	The girl book is . . . Juan hat is red.
3. Past tense -ed is often omitted.	We walk yesterday.
4. Double negatives are required.	I don't have no more.
5. Superiority is demonstrated by using <i>mas</i> .	This cake is more big.
6. The adverb often follows the verb.	He drives very fast his motorcycle.

Source: From Multicultural Students with Special Language Needs 2nd ed. (p. 84), by C. Roseberry-McKibbin, 2002, Oceanside, CA: Academic Communication Associates. Reprinted with permission.

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## English Influenced by Another Language

Table 2-15 Synthetic and Morphologic Differences Commonly Observed Among Adult Speakers	
Language Characteristics	Sample English Utterances
Omission of plurals	Here are 2 piece of meat. I got 5 finger on each hand.
Omission of copula	He going home now. They eating.
Omission of possessive	I have Phoning pencil. Mom food is cold.
Omission of past tense morpheme	We cook dinner yesterday. Last night she walk home.
Past tense double marking	He didn't went by himself.
Double negative	They don't have no books.
Subject-verb-object relationship differences/revisions	I missed up it. He like.
Misordering of interrogatives	You are going now? She is in home.
Missing or omission of prepositions	He goes to school 8:00. She husband is coming.
Misuse of pronouns	She said her wife is here. Boy is sick.
Omission and/or overgeneralization of articles	He went the home. This book is gooder than that book.
Incorrect use of comparatives	You _____ I going to the beach.
Omission of conjunctions	She _____ out side it. He do not have enough.
Omission, lack of inflection on auxiliary "do"	She have no money. We _____ been the store.
Omission, lack of inflection on forms of "have"	

Source: From Multicultural Students with Special Language Needs 2nd ed. (p. 105). In C. Rhotony (Ed.), 2002. Orlando, FL: Academic Communication Associates. Reprinted with permission.

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## Limitations of Dialect Lists



They only describe a few salient, high stigmatized forms. The dialects listed are far more complicated than described.

They lack contextual information.

They lack frequency information.

They lack information about how children with and without LI differ on the forms within the dialect list.

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Collect Data!



Illustration of American English Dialect Map (Robert Delany, 2000) <http://robertspage.com/dialects.html>

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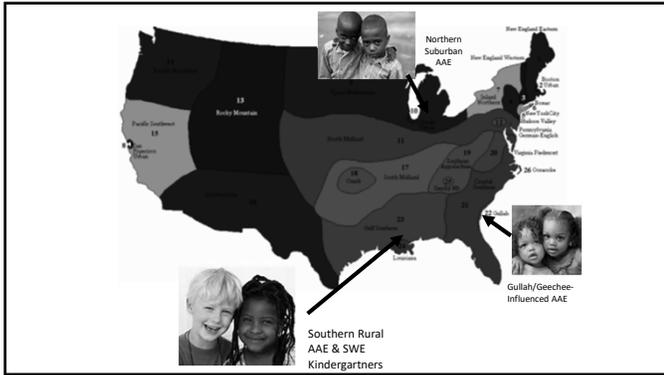
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### Louisiana and the Acadiana Triangle



1700s: 3,500 French-speaking Acadians from Nova Scotia  
 1800s: Influx of French, Spanish, Irish, Scottish, German, Free People of Color, African, Native American.  
 1900s: Major civil/racial changes with shifts in identity (white vs. Black)

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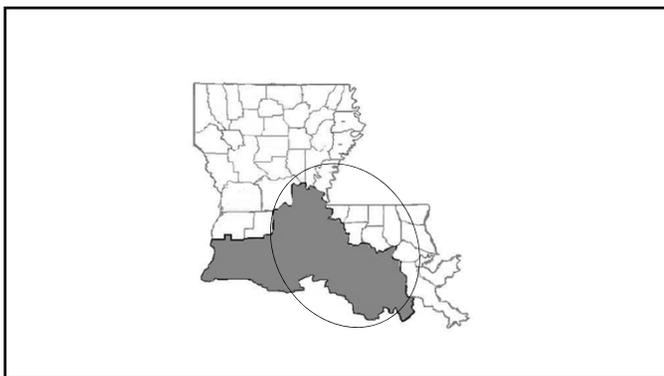
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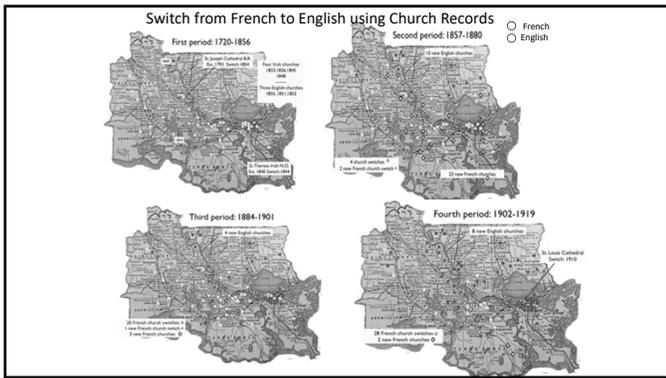
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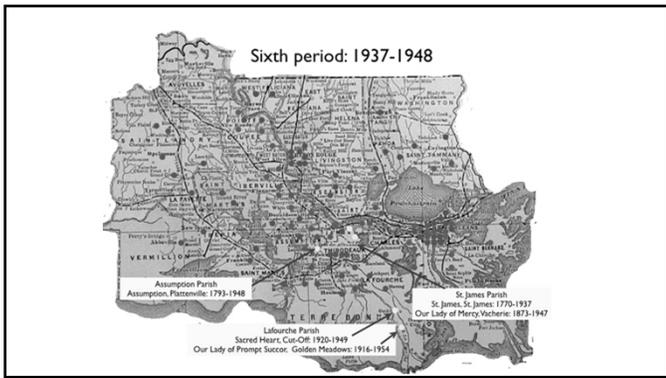
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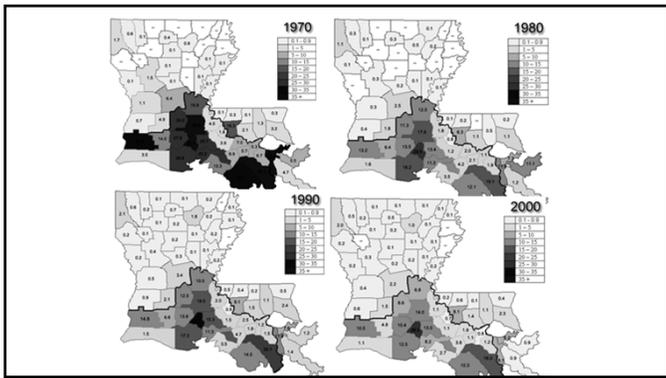
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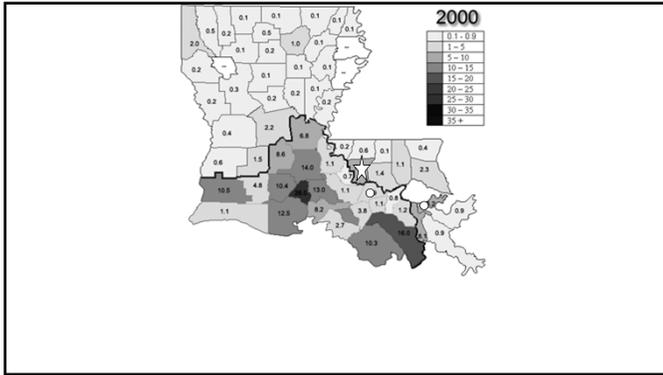
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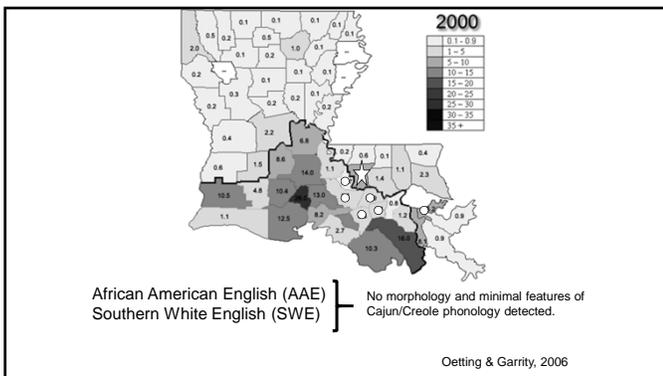
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**Nonmainstream Forms: AAE and SWE**  
(N = 93; N = 252)

zero BE	over-regularization	been and BIN
be <sub>2</sub>	participle as past	done+verb
i'ma for i'm going to	ain't	fixing+verb
SV agreement with BE	multiple negation	undifferentiated pronoun
zero auxiliary DO	indefinite article	reflexive
zero auxiliary have	zero present progressive	demonstrative
zero regular verbal -s	zero plural	dative
zero irregular verbal -s	zero possessive	y'all varieties
SV agreement with don't	zero infinitive to	apositive
zero regular past	for to/to	existential it and they
zero irregular past	zero of	Wh- noninversion
preterite had	what or zero relative	

Oetting & McDonald, 2001; Oetting & Pruitt, 2005; Oetting et al., 2016, 2019, 2021

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Results: Nonmainstream Dialects Share Many of the Same Forms

zero BE	over-regularization	been and BIN
be <sub>2</sub>	participle as past	<b>done+verb</b>
<b>i'ma for i'm going to</b>	ain't	fixing+verb
SV agreement with BE	multiple negation	undifferentiated pronoun
zero auxiliary DO	indefinite article	reflexive
zero auxiliary have	zero present progressive	demonstrative
zero regular verbal -s	zero plural	dative
zero irregular verbal -s	zero possessive	y'all varieties
SV agreement with don't	zero infinitive to	appositive
zero regular past	for to/to	<b>existential it and they</b>
zero irregular past	zero of	Wh- noninversion
<b>preterite had</b>	what or zero relative	

- AAE
- SWE

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AAE	SWE
<b>Zero be (100%)</b>	<b>Zero be (89%)</b>
<b>Zero regular third (100%)</b>	<b>Multiple negation (72%)</b>
Zero regular past (90%)	<b>Zero regular third (70%)</b>
<b>S-V agree with be (85%)</b>	<b>Zero do (66%)</b>
<b>Multiple negation (82%)</b>	S-V agree with don't (60%)
<b>S-V agree with don't (78%)</b>	S-V agree with be (58%)
<b>Zero irregular past (75%)</b>	Appositive (57%)
<b>Zero do (70%)</b>	Overregularization of past (55%)
Zero irregular third (70%)	<b>Zero irregular past (51%)</b>
Zero possessive (68%)	Alternative pronoun (51%)

10 most frequently produced forms: percent of children in parentheses

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Other AAE Studies

2- & 3-year-olds Horton-Ikard WI	3- & 4-year-olds Jackson & Roberts NC	4- & 5-year-olds Washington & Craig MI
Zero be	Zero be	Zero be
S-V agree be, don't	S-V agree be, don't	S-V agree be, don't
Zero regular past	Zero regular past	Zero regular past
Zero irregular past	Zero irregular past	Zero irregular past
Zero regular third	Zero regular third	Zero regular third
Zero irregular third	Zero irregular third	Zero irregular third
Alternative pronoun	Alternative pronoun	Alternative pronoun
	Multiple negation	Multiple negation

Same forms are frequently produced in other nonmainstream dialects of AAE

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Although nonmainstream dialects share many of the same forms, they differ in three ways:

1. Rate of use
2. Constraints on use
3. Function of use

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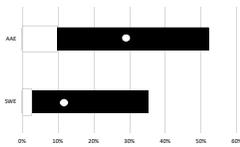
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### 1. Dialects Differ in Rate of Nonmainstream Forms

Percent of Utterances with a Nonmainstream Form

	AAE	SWE
Mean	29%	12%
Range	10 - 52%	3 - 35%



97% accuracy in classifying AAE and SWE speakers by just using percent at which each of the 35 forms were produced by the children.

Detting & McDonald, 2001

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### 2. Dialects Differ in their Constraints on Form Use

An Example with Forms of BE

Person, Number, & Tense: *am, is, are, was, were*

Contractibility: Contractible (*Jan's two*) vs. Uncontractible (*Chris is two*)

Grammatical Function: Copula (*Jaya is tall*) vs. Auxiliary (*Jaya is running*)

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Constraints Encourage / Discourage Overt Forms

Person Number Tense	first person > third person > second past > present I'm happy > He's happy > You're happy She was happy > She is happy
Contractibility	uncontractible > contractible Jess is happy > Tom's happy
Grammatical Function	copula > auxiliary She is happy > She is walking

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A study of 62 Children, aged 4-6 years: Percent of Overt Forms

	SWE	AAE
Person/Number/Tense		
Am	96	94
Is	95	59
Are	77	27
Was/Were	99	96
Contractibility		
Contractible	93	57
Uncontractible	94	77
Grammatical Function		
Copula	96	70
Auxiliary	87	53

RED indicates that the constraint was significant for the dialect.  
AAE = 3 constraints  
SWE = 2 constraints

Roy, Gettng, & Moland, 2013

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Another study of 38 children, aged 4-6 years

	SWE	AAE	AAE with Gullah/Geechee
Person/Number/Tense			
Am	96	94	69
Is	95	59	76
Are	77	27	48
Was/were	99	96	88
Contractibility			
Contractible	93	57	68
Uncontractible	94	77	88
Grammatical Function			
Copula	96	70	82
Auxiliary	87	53	73

AAE with Gullah/Geechee influence is affected by the same constraints as AAE but not in the same way

Berry & Gettng, 2017

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### 3. Dialects Differ in the Functions Served by a Form

Example: Preterite Had (camouflaged form)

My mama said she was about to go to Bible study, and on the way back, her car **had stopped**. Then she **had called** the house because somebody let her use the phone. Then she **had called** the house and I said, "Hello. Who's this?" Then my mama said, "It's your mama. Let me talk to your daddy." Then she **had told** my daddy to come with us and bring a big rope so they could pull the car home. So, we got a new car.

Past Perfect(relative tense)  
I had bought some jambalaya by the time the crawfish came.

Preterite (simple-absolute tense)  
I bought some jambalaya

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### Rickford & Rafal (1996)

9 AAE-speakers (11-13 years) narratives

52 cases Preterite Had

96% simple, absolute past rather than relative

100% were produced in a personal narrative

94% were in the complicating action clause

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### A Study of 93 Children: Use of Preterite Had

	SWE	AAE	AAE #52
Had + verb+ed Had walked	0%	9%	28%
Verb+ed Walked	83%	73%	57%
Verb unmarked Walk	1%	6%	3%

Ross, Oetting, & Stapleton, 2004

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When do AAE-speaking children produce preterite Had?

90%  
occurred  
in a  
narrative

Abstract	4%
Orientation	2%
Complicating action	84%
Result	2%
Evaluation	4%
Coda	4%

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Use tied to Narrative Development

1	Descriptive sequence Heaps; clauses in any order.
2	Action sequence Clauses in chronological order, but not causative in nature.
3	Reactive sequence preschool Clauses ordered chronologically and causatively.
4	Abbreviated episode 6 years Story states character intentions but not a clear plan.
5	Incomplete episode, complete episode, multiple episode 7-8 years Episode = initiating event, explicit character intentions, consequences.

Stein & Glenn's (1979) Story Structure Levels

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AAE-speaking children with stronger narrative skills produced more Preterite Had forms.

	# stories	Utts per story	Level of stories	# of Had+Ved
4-yr-olds	6	4.33	1.33	7
6-yr-olds	13	10.16	2.31	52
#52	7	11.72	4.29	29
#64	2	11.00	4.00	6
#63	2	13.5	4.00	5

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Other Camouflaged Forms Across AAE Dialects

Be

- Be He wants to be a comedian.
- Be<sub>2</sub> He be funny. (all the time, often, but maybe not now)
- Be<sub>3</sub> He be Saturday Night Live. (he is the iconic symbol of the show; found in rap/poetry)

Been

- Been He has been to the store.
- bin He  $\emptyset$  been to the store.
- BIN<sub>comp</sub> He BIN called her. (a long time ago)
- BIN<sub>gate</sub> He BIN running. (a long time)
- BIN<sub>hab</sub> He BIN calling her. (from time to time)
- BEEN I just now BEEN washing it. (functions as was/were; produced in Gullah & AAE with Gullah/Geechee influence)

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Recap:

Dialects share a number of mainstream and nonmainstream forms.

Dialects differ in:

- Rate of use
- Constraints on use
- Function of use




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What about Disorder within Dialects of English?

Language Impairment (LI)

Typically developing, same dialect-speaking controls (TD)

AAE LI	SWE LI
AAE TD	SWE TD

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### 35 Nonmainstream Forms

zero BE	over-regularization	been and BIN
be <sub>2</sub>	participle as past	done+verb
i'ma for i'm going to	ain't	fixing+verb
SV agreement with BE	multiple negation	undifferentiated pronoun
zero auxiliary DO	indefinite article	reflexive
zero auxiliary have	zero present progressive	demonstrative
zero regular verbal -s	zero plural	dative
zero irregular verbal -s	zero possessive	y'all varieties
SV agreement with don't	zero infinitive to	appositive
zero regular past	for to/to	existential it and they
zero irregular past	zero of	Wh- noninversion
preterite had	what or zero relative	

Number of zero BE / Number of utterances produced by child  
 Number of \_\_\_\_ / Number of utterances produced by child  
 Enter all percentages into a discriminant function (formula)

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### LI vs. TD within AAE and SWE (n = 62)

Accuracy of classifying LI and TD children using all 35 structures:

**90%**

Sensitivity (Se): Percentage of LI children classified as LI      Se = .87  
 Specificity (Sp): Percentage of TD children classified as TD      Sp = .94

omission of auxiliary do	3X more in LI
zero irregular past	3X more in LI
zero be	2X more in LI
wh- noninversion	2X more in LI

Gettling & McDonald, 2005

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### LI vs. TD within AAE and SWE

#### AAE

zero irregular past  
 Wh-noninversion  
 zero irregular third

#### SWE

zero irregular past  
 auxiliary do omission  
 zero irregular third  
 omission of infinitive to  
 S-V agreement with don't

Diagnostic Accuracy = 82%

Se = .75  
 Sp = .92

Diagnostic Accuracy = 91%

Se = .87  
 Sp = .95

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What are the Se and Sp of common language tests?

*Clinical Evaluation of Language Fundamentals (CELF)P: 2*

Se = .85  
Sp = .82

Preschool Language Scales (PLS) - 5

Se = .83  
Sp = .80

Test of Language Development (TOLD) Primary - 4

Se = .74  
Sp = .87

Nonmainstream Patterns

AAE/SWE  
Se = .87  
Sp = .94

AAE  
Se = .75  
Sp = .92

SWE  
Se = .87  
Sp = .95

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### 5 Other Studies: Percent of Overt Marking LI vs. TD

Target structure: Past Tense

Number of overt forms / number of overt forms and zero forms

- He walk∅
- He walk∅
- He jump/ed rope
- He play/ed football
- He mow/ed a lawn
- He swallow/ed a pill
- She kick/ed/ed it
- She typed

6 overt / (6 overt + 2 zero = 8) = 75%

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### 5 Other Studies: Rates of Overt Marking LI vs. TD

	LI	TD
AAE Regular Past Tense Sadie play/ed.	50%	91%
AAE BE Auxiliaries - am, is, are Ida <u>is</u> reading.	25%	47%
SWE but not AAE Verbal -S He walk/ <u>s</u>	64%	89%
AAE and SWE Subject Relatives The girl <u>who</u> was typing is named Raven.	59%	86%
AAE, SWE, and SWE with Cajun Influence Infinitive TO The boy wanted <u>to</u> go.	83%	90%

Cleveland & Oetting, 2013; Seymour et al., 1998; Garrity & Oetting, 2010; Oetting & Newkirk, 2008; Rivière et al., 2011

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5 Other Language Sample Studies: Rates of Overt Marking: LI vs. TD

	LI	TD
AAE Regular Past Tense Sadie play/ <u>ed</u> .	50%	91%
AAE BE Auxiliaries - am, is, are Ida <u>is</u> reading.	25%	47%
SWE but not AAE Verbal -S He walk/ <u>s</u>	64%	89%
AAE and SWE Subject Relatives The girl <u>who</u> was typing is named Raven.	59%	86%
AAE, SWE and SWE with Cajun English Infinitive TO The boy wanted <u>to</u> go.	83%	90%

Cleveland & Oetting, 2013; Seymour et al., 1998; Garrity & Oetting, 2010; Oetting & Newkirk, 2008; Riviere et al., 2018

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Summary

A disorder within dialects framework allows you to:



1. Test and treat a child's entire language system.
2. Learn about similarities and differences between nonmainstream dialects.

Nonmainstream dialects share many forms but differ in:  
frequency of use  
contexts of use  
functions of use

3. Discover how children with LI differ from their TD peers in their dialects.

In both AAE and SWE (and GAE and likely other dialects), children with LI struggle to produce overt forms of verb morphology at the same percentages as their TD peers. They are less productive with their grammars.

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