



















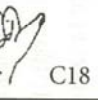
**Selected highlights of unclaimed papers
presented by Kie, 10 March 2020**

(Karnopp 2002): Case study of one child acquiring Brazilian Sign Language, LIBRAS (< Lingua Brasileira de Sinais)

keywords: acquisition, L1, handshape, contrasts, Brazilian Sign Language, LIBRAS, Karnopp 2002

- Parents, two sisters all Deaf and signing
- Nice table of when each handshape was acquired, and what featural contrast that represents
 - see paper for assumptions about feature system

Table 4. Description of the features acquisition of HS_ini

Phase	Years; months	Handshape type	What is acquired?*
1	0;11	 C1  F2	[SF: One/(All)]
2	1;1	 B1  B2  F8	[Adduction: adducted] [Thumb: selected]
3	1;5	 A1  A2  A3	[Aperture: closed] in [All]
4	1;7	 J1  I1  K1  G1  H1  G4  I4	[Aperture: open] in [All] [Aperture: closed] in [All]
5	2;0	 H4  B5  F5  C18	[Flexion: flex; base] in [One] [Flexion: flex; base] in [All] [SF: I ^{ul}] (side: ulnar)

* The criteria to analyse *What is acquired?* in Table 4 were accuracy of production, order of position and production frequency.

(Hendriks & Dufoe 2014): Where do fingerspelling and initialized signs fit in to the lexicon of Mexican Sign Language?

keywords: fingerspelling, initialized signs, lexicon, lexical strata, nativization, contact, loan phonology, Mexican Sign Language, LSM, Hendriks & Dufoe 2014

1. Background

- Mexican Sign Language, LSM (Lengua de Señas Mexicana) has origins in French Sign Language
→ manual alphabet will be mostly familiar to us from ASL

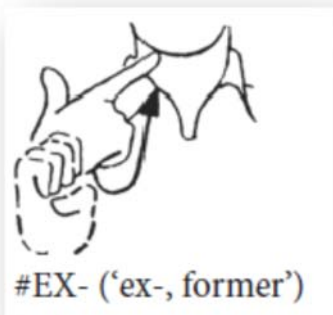
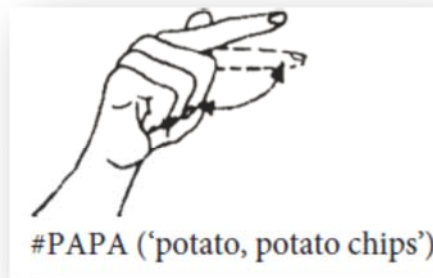
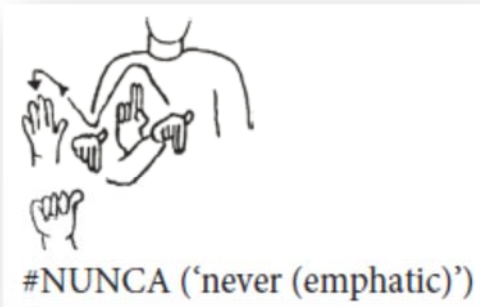
2. As in ASL, fingerspelled words (after getting lexicalized) can still be in the foreign/non-native lexicon

- By the way, meaning can be different from Spanish source word (evidence of lexicalization)
 - #PAPA (“#” indicates fingerspelling) = ‘potato’ or ‘potato chips’
 - but Spanish *papa* = ‘potato’ only
 - #IBA = ‘was going to but didn’t’
 - Spanish *iba* ‘used to go, was going’
- Signs so lexicalized they are in native set now
 - #SI, #NO, #TV (monosyllabic, obey selected fingers constraint)



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- Signs that are somewhat nativized but still have >1 syllable, and/or >1 selected fingers
 - #NUNCA (eliminates C), #PAPA, #PAZ (one variant): more nativized



X changes from bent finger to straight, because of neck contact

A eliminated, combines P handshape with Z movement; note also weak hand added

- #IBA: less nativized



(pp. 53-55)

3. Unlike in ASL, initialized signs belong to core lexicon

- Initialization very common in LSM
 - 37% of signs, vs. 12% in ASL
- All but one initialized handshape (M) is also found in core lexicon
 - Does that mean there are letters that don't get used in initialization, or does it mean that all but one of the letters happens to be a handshape that is also found in the core lexicon?

4. Fun fact

- According to Hendriks & Dufoe, Akamatsu 1982 found that preschool ASL signers could fingerspell some words they couldn't yet read
- shows that at least some fingerspelled words have their own status in the signed-language mental lexicon, not just a contact phenomenon

(Cormier, Schembri & Tyrone 2008): Nativization of fingerspelling in one-handed and two-handed systems

keywords: loan phonology, fingerspelling, nativization, initialization, American Sign Language, ASL, British Sign Language, BSL, Australian Sign Language, ASL, BANZSL, Cormier Schembri & Tyrone 2008

Paper contains lots of examples of nativizations in ASL and BSL/Auslan/BANZL, but I've just picked a couple of highlights

5. Fingerspelling in BANZL (British, Australia, New Zealand Sign Language)

- Unlike in almost the whole rest of the world, fingerspelling uses *two* hands
- All letters have not just a handshape but also an orientation and movement

				
Aa	Bb	Cc	Dd	Ee
				
Ff	Gg	Hh	Ii	Jj
				
Kk	Ll	Mm	Nn	Oo
				
Pp	Qq	Rr	Ss	Tt
				
Uu	Vv	Ww	Xx	Yy
				
Zz				

Figure 1b. BANZSL fingerspelling system (Reprinted with permission from Johnston, Trevor & Adam Schembri. 2007. *Australian Sign Language: An Introduction to Sign Language Linguistics*. Cambridge: Cambridge University Press.)

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6. So how does initialization work?

- You can't just take an existing sign and change the handshape to a letter's, as in other languages
- Initialization in BANZL seems to be less common
- Instead, you tend to find signs that are a single letter, but with a distinctive number of movements and often mouthing
 - DAY has just one "inward movement" and DAUGHTER has repeated movement
 - MOTHER and MINUTE have different mouthings

7. Some two-letter signs are (or are optionally) partly or fully nativized



GLASGOW,
unnativized

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GLASGOW, partly
nativized: weak hand
has only one shape

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Figure 16. BSL GLASGOW₁

Figure 17. BSL GLASGOW₂



Figure 23a. Auslan N-O



Figure 23b. Auslan #NO₁

partial nativization: keep
dominant hand's shape same



Figure 23c. Auslan #NO₂

further nativization: drop
requirement for ring-finger
contact

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(Goldin-Meadow & Brentari 2015): Sign vs. gesture

keywords: gesture, iconicity, Goldin-Meadow & Brentari 2015

8. Everyone gestures

- Speech is ordinarily accompanied by manual gestures
- So is sign!
- But because sign and gesture are in the same modality, it's harder to distinguish them
 - When we want to compare modalities, we should be comparing what signers do with their hands to speech+gesture, not to speech alone

9. Crosslinguistic similarities that could reflect gesture

- While sign languages differ a lot in, e.g., what handshapes they use to describe events, they tend to be similar in the motion and location used (Schembri, Jones & Burnham 2005)
 - and even non-signing hearing people used similar motion and location (but not handshape) when asked to silently describe same events
- As we've seen, it is very widespread in sign languages to use iconic movement with classifiers

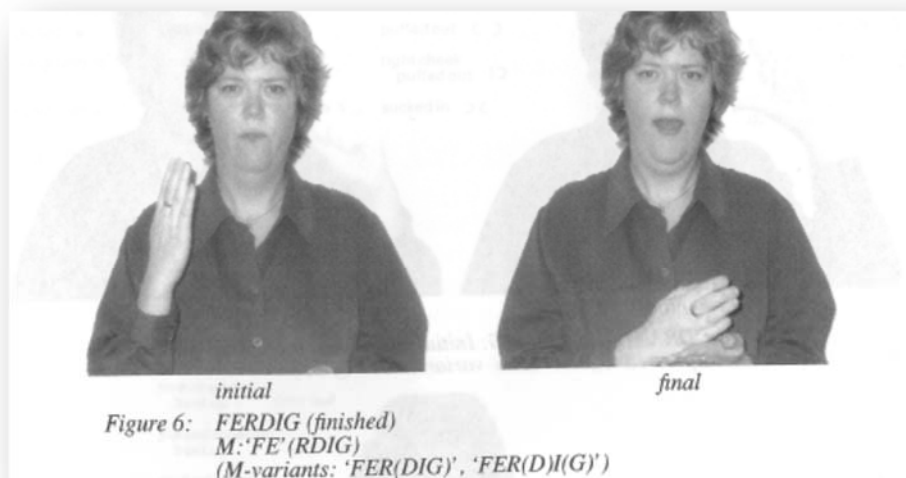
There's a lot in this paper and I think it's worth reading the whole thing if you're at all interested in questions about how vocal and manual modalities may differ, as well as if you're interested in gesture. But there's not so much good material for teaching, since it's very short on pictures!!

(Boyes-Braem & Sutton-Spence 2001): volume about role of mouth in various sign languages. There's way more in each of this papers, and these aren't even all the papers!

keywords: mouthing, mouth gesture, contact, clitic, spreading, minimal pair, phoneme, contrast, phonestheme, phonaestheme, syllable, sonority, echo phonology, Norwegian Sign Language, NSL, Finnish Sign Language, FinnSL, Swedish Sign Language, British Sign Language, BSL, Boyes-Braem & Sutton-Spence 2001, Vogt-Svendsen 2001, Rainò 2001, Bergman & Wallin 2001, Woll 2001

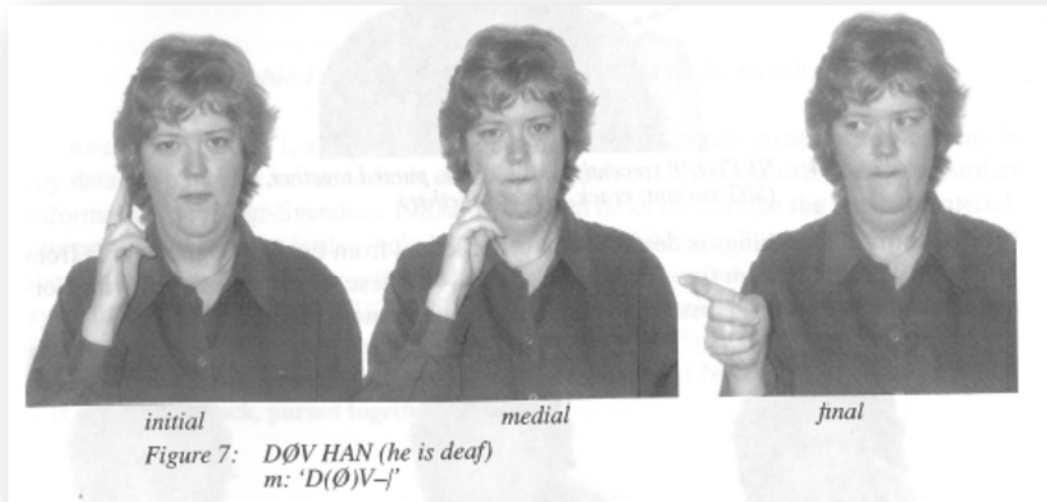
10. Vogt-Svendsen 2001: Norwegian Sign Language (NSL)

- Sometimes only part of the Norwegian word is mouthed



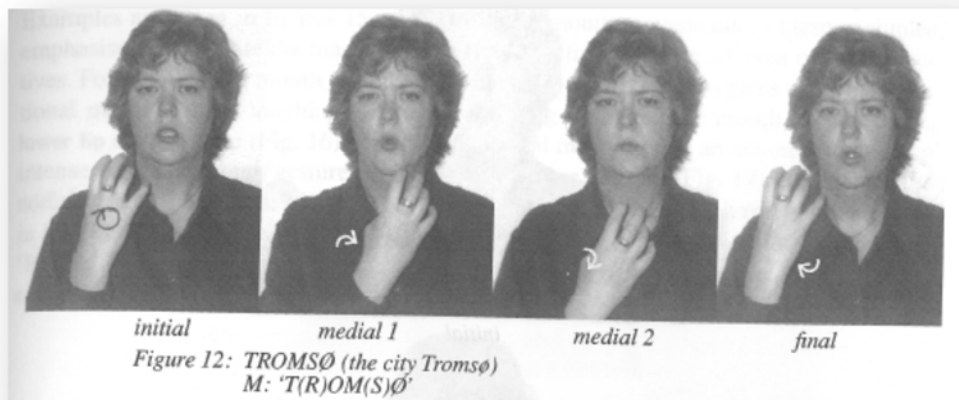
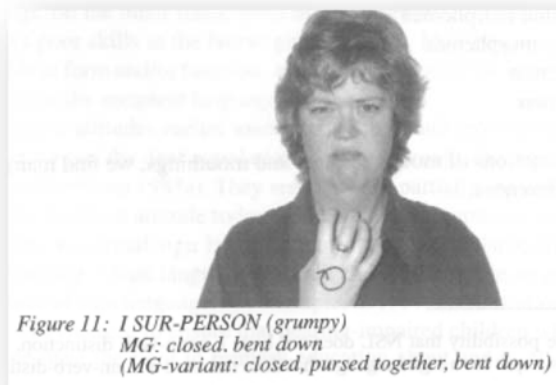
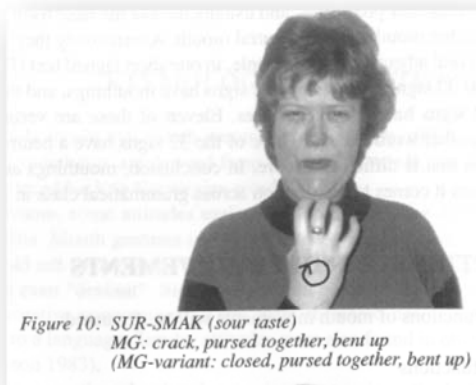
(p. 14)

- Mouthing can be extended over a clitic pronoun



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- A minimal triplet differentiated only by mouth! (pp. 18-19)



11. (Rainò 2001): Finnish Sign Language (FinSL)

- Some mouth gestures act as phonaesthemes: not morphemic, but still have a semantic association
- E.g. “jj” gesture:

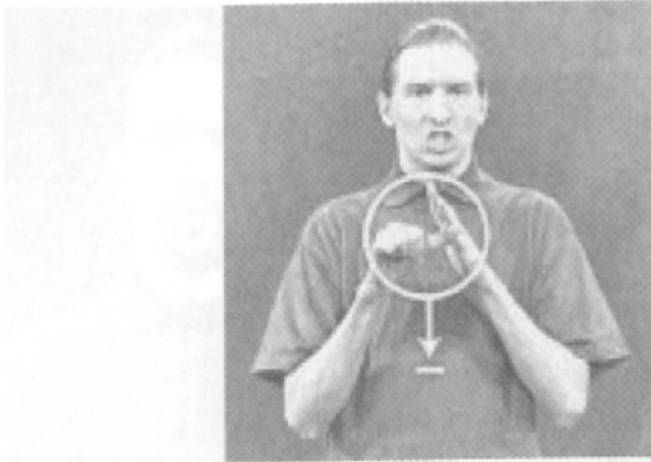


Figure 7: 'to oppress; segregation'

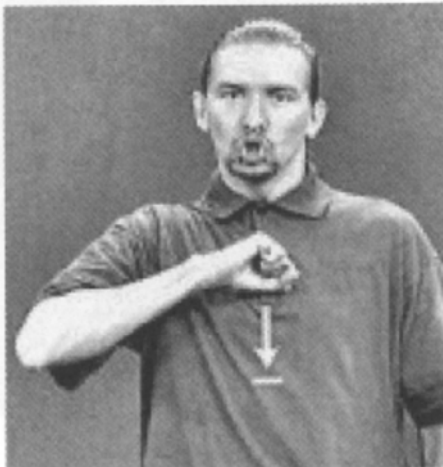


Figure 8: 'to force oneself'

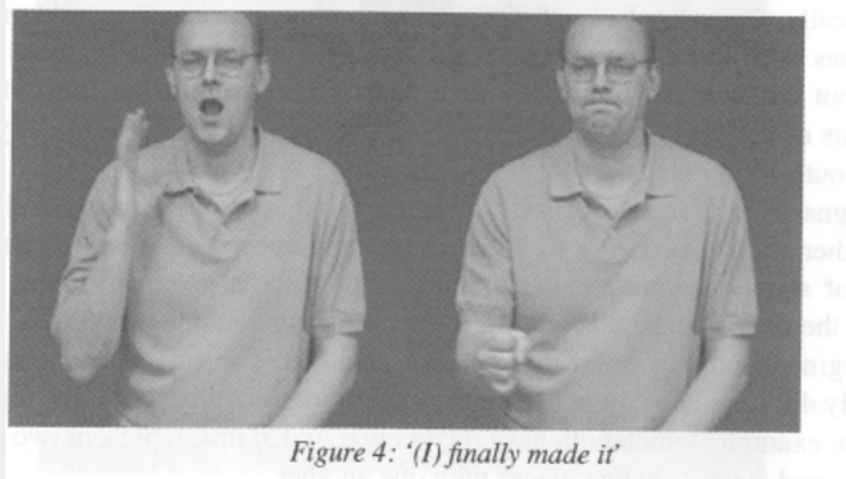
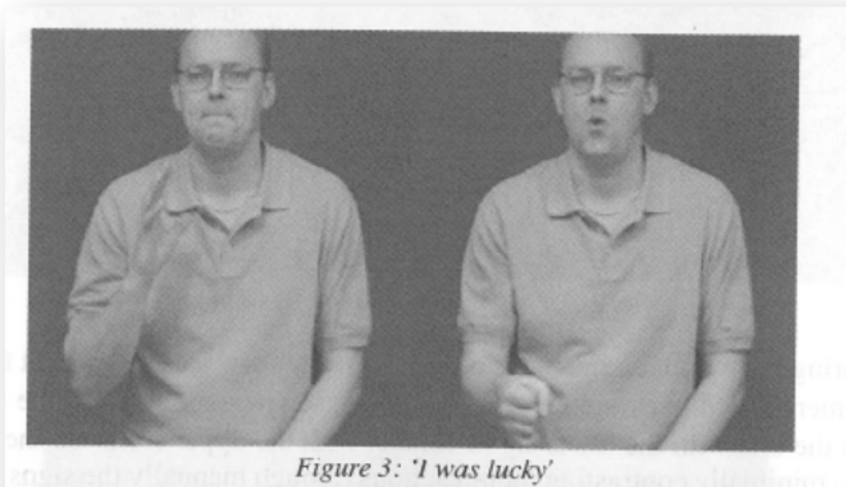
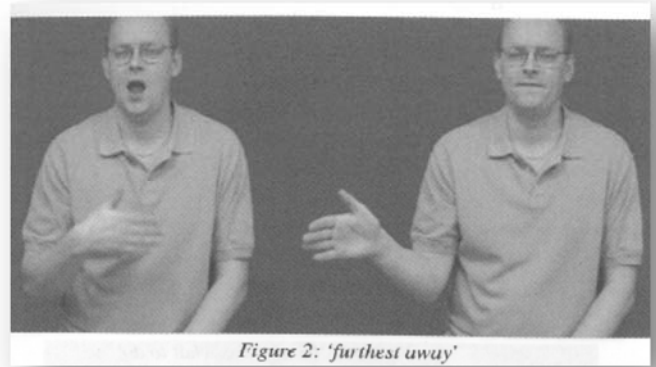
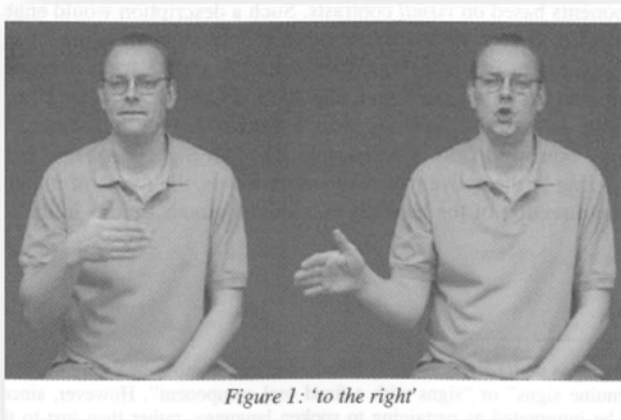


Figure 9: 'majority; predominant'











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12. Bergman & Wallin 2001: Swedish Sign Language

- Some minimal pairs for opening vs. closing the mouth (pp. 52-53)



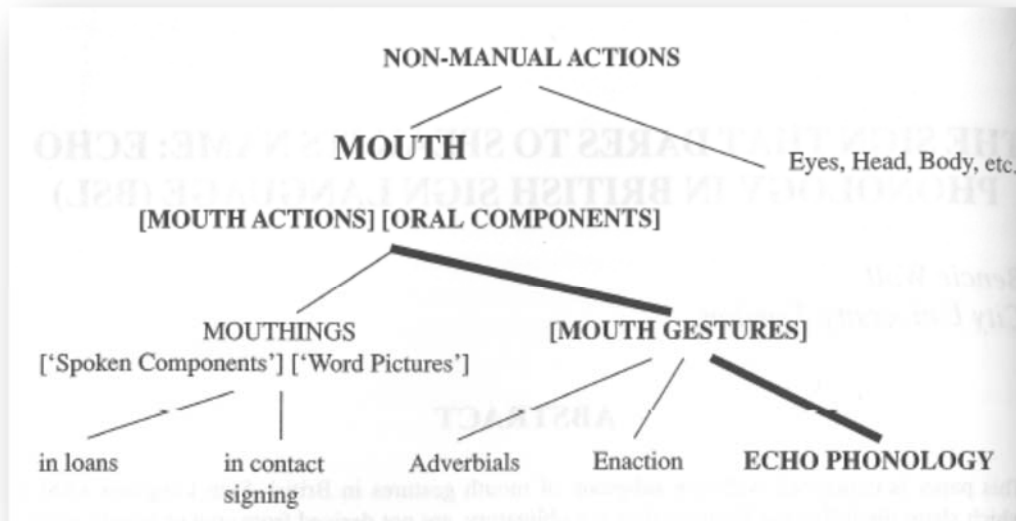
- Proposes 10 contrastive mouth shapes for Swedish Sign Language

		open	in	air	corner	forward	round	jaw	tongue
I		-	-	-					
II		-	-	+					
III		-	+	-					
IV		+			+	-	-	-	
V		+			-	+	-	-	
VI		+			-	+	+	-	
VII		+			-	-	-	-	
VIII		+			+			+	
IX		+		+					
X		+							+

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13. Woll 2001: “Echo phonology” in British Sign Language

- Study of a particular subset of mouth gestures in BSL
 - just those that are lexically required, and have mouth *movement* that echoes what the hands are doing



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- In many of these, mouth opens or closes as hand does:



7a. SUCCEED



7b. WON



7c. WIN



7d.*SUCCEED



7e.*WIN

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- Specific mouthed syllables tend to associate with specific manual syllable types:

1. pa> (SUCCEED) CV structure

This syllable accompanies signs with either one or two active hands. The movement characteristically consists of the hands separating and twisting, in a single sharp action.

2. fi> (NOT-HAVE) CV structure

This syllable accompanies movements where the hand strikes and bounces off the body.

3. ^p< (THANK-GOD) VC structure

The hand(s) close from an open shape (e.g. Ô); the movement is abrupt and may involve twisting.

4. am< or ^m< (TRUE) VC structure

In this syllable, the active hand closes and strikes the passive hand with a sharp movement.

5. θp< (DISAPPEAR) VC structure

This syllable accompanies a closing movement of one or both hand(s); the movement is short and sharp with an abrupt stop.

6. |> (EXIST) V structure

This syllable occurs only in one-handed signs. It accompanies wiggling of the fingers or repeated shaking or twisting of the wrist; there is no path movement.

^ = ^

> = exhaled

< = inhaled

- CV goes with exhalation, hand opening, and movement away from body, hand separation
- VC goes with inhalation, hand closing, movement towards body, hand contact
- Visual oral sonority (jaw open) seems to go long with manual sonority (movement from proximal joint)

7. hw> or hy> (WIN) (C)V structure

This syllable accompanies wiggling of the fingers or repeated shaking or twisting of the wrist(s); there is no path movement.



(pp. 93-94)

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