

12 *Huh? What?* – a first survey in twenty-one languages

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12.1 Introduction

A comparison of conversation in twenty-one languages from around the world reveals commonalities and differences in the way that people do open-class other-initiation of repair (Schegloff, Jefferson, and Sacks, 1977; Drew, 1997). We find that speakers of all of the spoken languages in the sample make use of a primary interjection strategy (in English it is *Huh?*), where the phonetic form of the interjection is strikingly similar across the languages: a monosyllable featuring an open non-back vowel [a, æ, ə, ʌ], often nasalized, usually with rising intonation and sometimes an [h-] onset. We also find that most of the languages have another strategy for open-class other-initiation of repair, namely the use of a question word (usually “what”). Here we find significantly more variation across the languages. The phonetic form of the question word involved is completely different from language to language: e.g., English [wat] versus Cha’palaa [ti] versus Duna [aki]. Furthermore, the grammatical structure in which the repair-initiating question word can or must be expressed varies within and across languages. In this chapter we present data on these two strategies – primary interjections like *Huh?* and question words like *What?* – with discussion of possible reasons for the similarities and differences across the languages. We explore some implications for the notion of repair as a system, in the context of research on the typology of language use.

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The general outline of this chapter is as follows. We first discuss repair as a system across languages and then introduce the focus of the chapter: open-class other-initiation of repair. A discussion of the main findings follows, where we identify two alternative strategies in the data: an interjection strategy (*Huh?*) and a question word strategy (*What?*). Formal features and possible motivations are discussed for the interjection strategy and the question word strategy in order. A final section discusses bodily behavior including posture, eyebrow movements and eye gaze, both in spoken languages and in a sign language.

12.2 Repair across languages

It is hard to imagine how people in a language-using social group could get by without a system for online repair of problems in speaking, hearing, and understanding. “If the organization of talk in interaction supplies the basic infrastructure through which the institutions and social organization of quotidian life are implemented, it had better be pretty reliable, and have ways of getting righted if beset by trouble.” (Schegloff, 2006: 77; cf. Schegloff, 1992). Supposing that we do find a system of repair in all languages, many questions arise. In what sense can these be called systems? Are they conventionally linguistic in nature? Do they have emergent properties? Are there differences across human groups? If so, what sorts of factors can account for the differences – cognitive, cultural, communicative? How to determine whether repair is found in all cultural settings, and if it is found in the same form?

One way to approach these questions, following the tradition of systematic comparison of grammatical structure known as linguistic typology, is to build a case from systematic comparison of structures of talk in interaction across a maximally diverse sample. A problem is that, for the kind of data needed, there are no available secondary sources comparable to reference grammars of spoken languages. Grammarians do not describe structures of repair, partly because there is no tradition of such description in linguistics, and partly because linguists have tended not to work with the one kind of data in which these structures can be found: i.e., spontaneous talk in conversational interaction.¹ The only option is to collect primary data and start afresh. Here we present first findings from a comparative project based on video-recorded everyday conversation in twenty-one languages from around the world.² The broad aim is to make a contribution – in empirical, methodological, and theoretical terms – to the typology of systems of language use for human interaction.

12.2.1 Defining other-initiated repair

Here we focus on a type of other-initiation of repair,³ defined as follows. A hearer of a turn at talk has the opportunity to initiate repair of what the prior speaker has just said, through a turn that, firstly, draws attention to a problem of speaking,

hearing or understanding in the prior turn, and secondly, normatively requires the speaker of that problem-turn to fix the problem. This may be done for example by saying the turn again (for instance if it seemed that there had been a problem of hearing), or by rephrasing it (for instance if it seemed that there had been a problem not of hearing but of understanding). In examples 1a and 1b, the target line, highlighted by an arrow, points to a problem (in these cases, of person reference) in the other speaker's prior turn. The problem is addressed by the original speaker in the turn that follows the highlighted turn.

(1a) NBII:1:R:6 (English)

	01	Lot:	U[h:.
<i>Trouble source</i>	02	Emm:	[But <u>PER</u> cy goes with (.) Nixon I'd
	03		sure like tha:t.
<i>Repair initiation</i>	04	Lot: →	<u>Who</u> :?
<i>Repair</i>	05	Emm:	<u>Per</u> cy.
	06		(0.2)
	07	Emm:	That <u>y</u> oung fella thet uh (.) .hh his
	08		daughter wz m: <u>ur</u> dered?
	09		(0.5)
	10	Lot:	.hhh [OH::: YE::AH:. YE:A[H. y-]
	11	Emm:	[They- [They:] said
	12		<u>sup</u> 'n abou:t <u>hi</u> :s

(1b) Field XI:1:1:1 (English)

<i>Trouble source</i>	01	Les:	<u>Ma</u> :y is: ill tog:. She's had eIther a
	02		<u>heart</u> attack or a, <u>sl</u> ight stro:k <u>e</u> ,
<i>Repair initiation</i>	03	Mum: →	<u>Ma</u> :ry?
	04		(.)
<i>Repair</i>	05	Les:	<u>Ma</u> :y.

We can schematize this kind of sequence as shown in Figure 12.1.

The critical turn in this three-part structure is “T0,” the turn in which it first becomes publicly apparent that there is a problem. Speaker B's turn at T0 (e.g., “Huh?,” “What?,” “Who?”) points back to a problem in Speaker A's prior turn (T–1), and points forward to a next turn in which Speaker A can repair the problem (T+1).

12.2.2 Questions

We are interested in two interlocking questions for research on other-initiated repair, the first being concerned with the relation between T0 and T–1, and the second being concerned with the relation between T–1 and T+1.

First: what are the ways in which a person can, at T0, initiate repair by the other speaker of the problem-turn at T–1? The defining turn at T0 can be

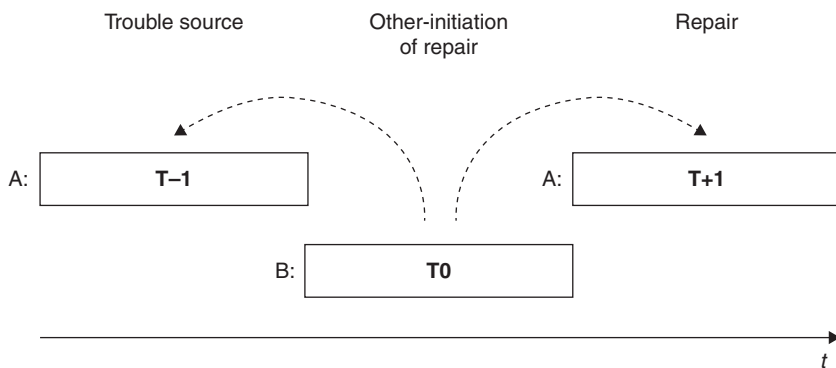


Figure 12.1: The anatomy of other-initiation of repair. Turn 0 points back to a problem in Turn -1 and points forward to a next turn Turn $+1$, where the problem can be repaired.

regarded as a structural slot in which a set of non-equivalent strategies can appear. These alternative strategies thus form a system paradigm, from a linguistic point of view; that is, something essentially akin to a paradigm of inflectional morphemes or words of a common form class. Examples 1a and 1b show different options for repair-initiation at T0 on a person-referring form in the prior turn: either by using a question word (“Who?” in (1a)), or by repeating one’s understanding of what was said, for confirmation (“Mary?” in (1b)). One goal of research here is to describe the formal and functional resources for other-initiation of repair at T0 across languages and cultural settings; another is to look for constraints on that variation.

Second: what are the ways in which a speaker of a problem-turn at T -1 fixes the putative problem at T $+1$? One hypothesis is that the way in which speakers will redo T -1 (e.g., exact repeat versus rewording) is a function of the choice of repair initiator used at T0. Sidnell (2007), working on the Creole language of Bequia, pursues this idea with a focus on person reference, analyzing a set of alternatives for initiating repair (at T0) on a person reference (made in T -1). He argues that for three main types of trouble that can occur in person reference – problem of hearing, non-uniqueness of a name, and not knowing the person referred to – there are three distinct formats for repair-initiation at T0: “who,” “who [NAME],” and “who is named so” (Sidnell, 2007: 307). The issue of how the problem is fixed goes beyond the scope of this chapter (see Section 2.4 below).

Note that there is a third critical question, connected to these two, which we do not systematically address in this chapter: What are the possible kinds of problem that can occur at T -1 ? The space of possibilities is usually defined as “problems of speaking, hearing and understanding” (Schegloff, Jefferson, and Sacks, 1977; Sidnell, 2010). Another way is to appeal to the logic of

Austin's nested layering of action in language use (Austin, 1962: 94–103); (Clark, 1996: 146). A speech act can be described on different levels simultaneously, and at each of these levels something can go wrong: a person produces noises or visual behavior for another to perceive (where problems will be of articulating and hearing); a person produces linguistic items for another to identify (where problems will be of word selection and recognition); a person has a communicative intention for another to infer (where problems will concern implicature and other “amplicative” interpretation); a person instigates an action for another to take up (where problems will concern appropriateness of response). While it is useful in principle to have this kind of breakdown of the nested layering of action components, when we look at data we find that it is often difficult or impossible to tell in a given instance what the problem actually was (or indeed whether there really was a problem of the kind being indicated), and it is not even in all cases possible to say unequivocally what the putative problem was *treated* as.

In examples 1a and 1b, the relevant practice of other-initiation of repair narrows in on just *part* of the prior turn. The speakers of the repair-initiating turns (T0, highlighted) are explicit about which part of the prior turn was the trouble source. In these cases, the problem had to do with a person-referring expression (though we note that in example 1 there are two person-referring expressions in T–1; *Percy* and *Nixon*). However, it is not necessarily clear to us precisely *what* the (claimed) problem was; e.g., whether it was a problem of hearing versus a problem of understanding or recognition. Example 1a illustrates that it is also not always clear to the participants, either. The speaker of the original trouble source repairs the utterance first by simply repeating the name she had used before (“Percy”), thus treating it as a hearing problem, only to find that this was insufficient; after a pause in which no uptake comes after the first attempt at repair, she then produces a recognitional reference (cf. Stivers, 2007) to the same person – “That young fella that uh . . . his daughter was murdered?” – where the new form also features “try-marking” (i.e., rising intonation as if checking for confirmation of recognition; Sacks and Schegloff, 1979: 18). This secures an explicit claim of recognition in the next turn (“Oh yeah”) by the speaker who had initiated repair on the initial use of the referent's name.

12.2.3 *This chapter's focus: open-class other-initiation of repair*

Beyond these kinds of cases, in which a *part* of the trouble-source turn is focused on, there are practices for “open-class” other-initiation of repair (Drew, 1997).⁴ In the open-class type of other-initiation of repair, the form

used at T0 does not focus on any sub-part of the prior turn as being the source of trouble. Consider some examples (with the T0 turns highlighted with an arrow):

(02) NB IV:5:2 (English)

- 01 Gla: =An' now I've got (.) tuh wash my hair en get the
 02 ↑goop out 'v it'n everything? .hh 'n ah have the
 03 ↑paypuh here I thought chu might li:ke tih ↓have
 04 it.↓.hhh[h]
- 05 Emm: [Th[a:nk yo]u.
 06 Gla: [En then] you: could retuhrn it ub (.)
 07 ↑Oh along about noo:n,
 08 (0.2)
- 09 Emm: Yer goin up'n ge[tcher hair]: fixed t[ihda]↓:y.]
 10 Gla: [befo : re]h e gets ho]↓:me.]
 11 (0.4)
- 12 Gla: -> What deah[r]?
 13 Emm: [Yer goin up tihday'n gitcher hai:r
 14 ↓fi[xed.]
 15 Gla: [Oh; n];o. I'm gontuh wash it mah:self ↓heeuh.
 16 Emm: ↑Oh:::
 17 Gla: I'm just goi[na sha]mpoo it,=
 18 Emm: [↓Oh:]
 19 Gla: =en then I have some othuh things t'do arou:nd so I
 20 won't be able to u- .hhh look et the paper=
 21 (E): =[(M)
 22 Gla: =['n ah know you li:ke tuh have it,=
 23 =.hh[hh
 24 Emm: [↑Well [th:a:nk↑ you]=
 25 Gla: [So] u- e h]=
 26 Emm: =dear ah'll be ↑o:↓v*er.
 27 Gla: A↓r*ight dear a:nd uh ↑front er b↓ack.h
 28 (1.0)
- 29 Emm: -> Wu:t?
 30 (.)
 31 Emm: .h[huh]
 32 Gla: [I s][ay f:-] [*u-
 33 Emm: [OH:::]: AH [GUESS th'=
 34 =FRO:nt. b[e be'er?]
 35 Gla: [Alah-].hh]h
 36 I look like a wi:ld Indian [cuz] I'm] .hh
 37 Emm: [Ye] a h]

(03) Holt 1:1:1 (English)

- 01 Les: m-[Jem's
 02 Mum: [Are the family o:ff?
 03 (0.5)
 04 Les: -> SORRY?
 05 Mum: 'Av your family gone o:ff?
 06 (.)
 07 Les: Ye:s,
 08 Mum: Oh ↓goo:d,

(04) NB III.2.R*Rev (English)

- 01 (38.3)
 02 Jim: Hello there.
 03 (0.6)
 04 Fra: Hello.
 05 Jim: Hello: hello.
 06 (0.4)
 07 Fra: W'ts goin o:n
 08 Jim: Not mu:ch. Wuddi[yih know.
 09 Fra: [Mh-
 10 Fra: -> Huh?
 11 Jim: Whuddiyih kno:w.
 12 (0.3)

Examples (2–4) illustrate what we mean by *open-class* other-initiation of repair: namely, a practice for drawing attention to a problem in the other's prior turn, without restricting the scope of focus to any component of that turn as being the source of trouble, thereby initiating repair by the other.

12.2.4 Different strategies

As the English examples, (2–4) show, different kinds of linguistic formats can function as open-class other-initiators of repair. One basic kind of strategy is to use an interjection such as *Huh?*, as shown in example 4. Other possible forms of the interjection for this function in English include *hm?* and *mm?*

Interjections in language are of two types: primary versus secondary (see Bloomfield, 1933: 176). Defined broadly, an interjection is a word unit or equivalent unit that can stand as a complete utterance in itself (e.g., *Huh?*, *Yes*, *Wow!*, *No*, *Yuck*; see further discussion, below). A primary interjection is a form that has *only* this profile. In this way, *Huh?* can be distinguished from *What?*. While *What?* has morphosyntactic combinatoric potential in the language more broadly, *Huh?* does not. So, in identifying *Huh?* as the “interjection” strategy, we will always mean it in the sense of “primary interjection” as just defined.

The second basic strategy for open-class other-initiation of repair is to use a question-word form like *What?*, illustrated in example 2. This question-word form can also be used for other-initiation of repair in more syntactically elaborate structures such as *What's that?* and *What did you say?* By definition, these kinds of structures are distinct from the primary interjection type.

Beyond these two basic strategies – primary interjection and question-word – there are also further ways of doing open-class other-initiation of repair, including *Pardon (me)?*, *Excuse me?*, and *Sorry?* (see example 3). One way to think about the distinctions among these forms is in terms of a contrast of perceived formality or politeness (cf. *Huh?* versus *I beg your pardon?*). Another is that the options may differ in terms of specific action nuances. For example, it has been suggested that *Sorry?* portrays the problem as being the fault of the repair-initiator, not of the speaker of the trouble-source turn (Robinson, 2006).

The strategies in English for carrying the action of open-class other-initiation of repair in this position (immediately following another speaker's turn containing a trouble source) are *non-identical* alternatives. The existence of sets of alternatives that can each appear in a single slot is a hallmark of linguistic and other communicative systems. This is why we can speak of systems of language use in the domain of social interaction. Because *What?* and *Huh?* are alternatives for the same slot, it may be that there is a functional distinction between them. One possibility might be that the two formats indicate different types of problems in T-1. For instance, one form might be used when you didn't hear something and the other for when you didn't understand something (though this particular possibility appears not to be supported by data from English; Drew, 1997). Or maybe one form is just more polite than the other. Further research will provide answers to these questions (Drew, 1997: 73); (Robinson, 2006: 142).⁵

If the various alternatives – *Huh?*, *What?*, etc. – aren't merely interchangeable, then it is possible that one of them is *unmarked* relative to the other, in the sense of being a default choice for open-class other-initiation of repair. This would mean that among the possible forms for initiating repair, certain forms would be used for specific purposes (e.g., *Sorry?* for when you want to do other-initiation of repair *and* claim responsibility for the problem), and if none of those extra, specific purposes applied, then a default form would be used. This default would be semantically unmarked with reference to the alternatives (i.e., it would have fewer semantic specifications), but it would not necessarily be less frequent. If *Huh?* were pragmatically unmarked relative to *What?*, then *Huh?* would be the default way of doing other-initiation of repair. The choice of *What?* would then be less expected, thus signaling, by contrast within a system of alternatives,

that something special were meant by its selection. Its core semantic meaning would contribute to understanding *just what* is specially meant by it. This kind of default/marked relation is seen in a whole range of linguistic pragmatic systems, such as systems for person reference (e.g., in English, “first name only” is unmarked relative to “description”; e.g., *Where’s John?* versus *Where’s His Majesty?*; Enfield and Stivers, 2007) or systems for responding to polar questions (e.g., the English system for answering with “type-conforming” interjections like *yes* versus marked alternatives such as a partial repeat of the question; e.g., A: *Is he going?* B: *He’s going*; see Raymond, 2003).

To figure out the structure and dynamics of any one language’s system for other-initiation of repair would be a major research project in itself, and we do not attempt that here. The aim of this first foray into the comparison of systems for open-class other-initiation of repair is, given that all languages from a broad sample appear to show the same sequential pattern of other-initiation of repair (Figure 12.1, above), to ask whether there is evidence of a basic system-level split between a primary interjection strategy and a question word strategy in the T0 slot. We demonstrate below that a basic *Huh?/What?* distinction will be found in most if not all languages, though it remains an open question as to what the functional distinction is (e.g., whether the use of “Huh?” versus “What?” can be found to correlate with different repair operations on T–1 that are performed at T+1).

12.3 Findings

Each researcher consulted a corpus of recorded interaction, and collected instances of open-class other-initiation of repair, to find out whether the two general types of strategy – primary interjection versus question word – were used.⁶

Since we are working with a large number of languages – twenty-one languages from six continents; see Table 12.1 – our scope is necessarily restricted. We ask: do all languages show a formal contrast between a primary interjection strategy and a question word strategy for other-initiation of repair? The answer to this question is “almost all languages in our broad sample.” Two of the languages examined (Yéli Dnye and Tzeltal) did not yield clear evidence from the available corpora that a question word strategy is used for open-class other-initiation of repair.

A first finding – perhaps trivial but nevertheless deserving of explicit mention here – is that (open-class) other-initiation of repair is observed in all of the languages in our sample, with the sequential organization shown in

Table 12.1: Approximate phonetic forms used for open-class other-initiation of repair in “T0” in twenty-one languages.

Language	Affiliation	Location	Research by	Interjection ⁷	Question word
ǀǀǀKhoe Hailom	Khoisan	Namibia	Hoymann	he	mati
Cha'palaa	Barbacoan	Ecuador	Floyd	a:	ti
Chintang	Kiranti	Nepal	Dirksmeyer	hā	tʰem
Duna	Duna-Bogaia	PNG	San Roque	ẽ:/hm	aki
Dutch	Germanic	Netherlands	Dingemanse	hɜ	wat
English	Germanic	UK	Drew	hā:/hm	wat
French	Romance	France	Torreira	ẽ	k ^b wa
Hungarian	Uralic	Hungary	Magyari	hm (ha)	mi
Icelandic	Germanic	Iceland	Gísladóttir	ha:	k ^b va:θ
Italian	Romance	Italy	Rossi	ε:	k ^b ɔza
Kri	Vietic	Laos	Enfield	ha:	tu'ɟ̄:
Lao	Tai	Laos	Enfield	hā:	i'naŋ
Mandarin Chn.	Sinitic	Taiwan	Kendrick	hā:	ʂəmə
Murrinh-Patha	Southern Daly	Australia	Blythe	a:	ʔangu
Russian	Slavic	Russia	Baranova	ha:	ʃɔ
Siwu	Kwa	Ghana	Dingemanse	hā	be:
Spanish	Romance	Spain	Torreira	e	ke
Tzeltal	Mayan	Mexico	Brown	hai	(binti)
Yélí Dnye	isolate	PNG	Levinson	ẽ	(lukwe)
Yurakaré	isolate	Bolivia	Gipper	æ/a	tæpʃæ
LSA ⁸	Deaf sign language	Argentina	Manrique	NA	NA

Figure 12.1. In each language, we observe sequences in which people use other-initiation of repair to draw attention to problems, thus eliciting repair of an earlier trouble-source turn. Our main interest here is to examine the kinds of resources used across the languages in T0 position. The results are presented in Table 12.1.

12.3.1 Primary interjection strategy

The primary interjection strategy shows remarkable cross-linguistic similarity in phonetic form (see Table 12.1). It is always a monosyllable, typically involving an open front vowel or similar (e.g., [a, æ, ə, ʌ]), sometimes with a voiceless *h*-onset (English *huh?* [hā:] being a prime example), sometimes with nasalization, and typically done with rising, “questioning” pitch. In addition, it is always a primary interjection, in the sense of Bloomfield (Bloomfield, 1933; Goffman, 1978; Ameka, 1992; Kockelman, 2003). Goffman classified

- 04 C: -> hā? [hā:]
 repair
huh?
- 05 (0.3)
- 06 D: ΠÈ isε-ε?
 place S.I-sit-Q
where is it?
- 07 (3.0)
- 08 C: i Mempeasem ngbe!
 loc PSN here
in Mempeasem here!

In an example from Lao (a Tai language of Laos, Thailand, and Cambodia), three women are talking while they prepare to do a recording for the researcher. R wonders (in line 1) how long the recording will need to be. Either because her way of asking this is vague (not specifying that it is “time” she is asking about), or perhaps because it is a topical discontinuity (Drew, 1997), it results in other-initiation of repair by L (line 3), which in turn results in R’s more specific rewording in line 5 of the trouble-source (line 1).

(07) Lao (LNEPVDP15AUG0503_000304)

- 01 R: qaw3 thò1-daj3 naø
 want extent-indef tpc
How much is required?
- 02 (0.6)
- 03 L: -> haa2? [hā:]
Huh?
- 04 (0.2)
- 05 R: cak2 naathii2
 how.many minute
How many minutes?
- 06 (2.0)
- 07 R: kheng1 sua1-moong2 vaa3
 half hour qplr.infer
Half an hour?
- 08 L: han5-dêê4 san4 laaw2 vaa1 kheng1 sua1-moong2
 that’s-right thus 3sg say half hour
That’s right, he said half an hour...
- 09 laaw2 vaa1
 3sg say
 ... *he said.*

In an example from Murrinh-Patha (a Southern Daly language of Australia), two elderly women are reminiscing. Line 2 is vaguely expressed by Mary, with ellipsis of the thing being spoken about (“trees”); Lily’s interjection

aa in line 5 elicits specification of this ellipsed material by Mary in line 6, which in turn elicits Lily's demonstration of understanding at line 7.

(08) Murrinh-Patha (Little Trees, 20091121JBVID03_1043611)

- 01 (0.2)
 02 Mary: manandji dangathangadhawa kununinggi
 ma- nandji dangatha -ngadha -wa kununinggi
 not- residue still/yet -still/yet -Emph little
 [They were] not [big] then, still little...
 03 dangatha na.↓
 dangatha na
 still/yet Tag
 ... weren't they?'
 04 (.)
 05 Lily: -> aaç [a:]
 Huh?
 06 Mary: nandji thay kanyi mambinyerl
 nandji thay kanyi mam -winyerl
 residue tree prox 3sS.8 say/do.nFut -block the way
 These trees all around
 07 Lily: Yu kanyika manandji dangathanga°dha°.
 yu kanyi -ka ma- nandji dangatha-ngadha
 yes prox -Top not- residue yet -yet
 Yeah, these [big trees were]n't here then.

In an example from Yurakaré (a language isolate of Bolivia), M and A are talking about a laptop computer that is being used in field work. M asks A in line 1 whether it does not have enough power at the moment. In line 3, A initiates repair with the interjection *ë*, after which M repeats her utterance in line 4.

(9) Yurakaré (270807_conv)

- 01 M: tishi nij da lacha?
 tishilë nij da lacha
 now NEG give.SP too
 It doesn't have enough energy now either?
 02 (.)
 03 A: -> ë?=æ
 INTJ
 Huh?
 04 M: =nij da layj tishilë
 nij da lacha tishilë
 NEG give.SP too now
 It doesn't have enough energy right now either?

05 (0.7)
 06 A: nijta
 NEG
It doesn't.

In an example from Dutch (a Germanic language spoken in the Netherlands), B initiates repair with the interjection *hɜ?* (line 3). This elicits a near-identical repeat of the trouble source turn in line 4, leaving off only “dispensable” material that tied it to the larger sequence (Schegloff, 2004).

(10) Dutch (Femie-Richard_566791)

01 A: ja hier [voor] het spoor nog hè, hier-?
 yes here before the tracks still TAG here
yeah here before the tracks actually right? Here-

02 B: [oh ja.]
 oh yes
oh yes. ((shifts gaze to A))

03 → he? [hɜ]
 INTJ.OIR
huh?

04 A: hier voor het spoor nog.
 here before the tracks still
here before the tracks.

And finally, in this case from Yéí Dnye (a language isolate spoken on Rossel Island in Papua New Guinea), two men are making arrangements concerning various debts. The interjection in line 2 elicits an exact repeat (in line 3) of the problem turn (line 1).

(11) Yéí Dnye (R03_v19_s2 13:56)

01 I: n:uu ye ngmepe?
 Who 3Pl.DAT repay
Who is repaying them?

02 K: → :êê [ē]
Huh?

03 I: n:uu ye ngmepe
 Who 3Pl.DAT repay
Who is repaying them?

04 K: kî pini dy:eemi knî
 That man.Spec with.brother.inlaw dual
That man with brothers in law

We also observed a non-open-mouth variant of the primary interjection in a number of the languages. In an example from Duna (a Trans New Guinea

language spoken in Papua New Guinea), four women (Julinda, Keti, Weselin, and Weli) and two boys (Kelo and Kelson) are sitting preparing food. Julinda is relating who attended a social event at her house earlier in the week (lines 2–3). Apparently prompted by Kelo’s interjection at line 5, she partially repeats her problem-turn as line 6.

(12) Duna (2010-08-07 DV17.2)

01 (0.5)

02 Jul: Mindipi–ne apoko#o::#> Wili–ne kheno
Mindipi–PR whatsit Wili-PR 3d
Mindipi and what’s-his-name, and Wili...

03 hutia–na<
come.PFV.VIS.P-SPEC
... came (I saw).

04 (0.6)

05 Klo: -> hmm?
hmm?

06 Jul: (Mindipi Wi[li-ne ((inaud.))])?
Mindipe Wili-PR
Mindipi and Wili ((inaudible))

07 Wel: sondopa-ne-[ngi, sondopa-ne-(ngi)]
four–ORD–TIME four–ORD–TIME
On Thursday, on Thursday.

08 Kls: [Asde yupela (wa)ts () a?
(Tok Pisin) yesterday 2p (?watch) ? TAG
Did you guys (watch a movie) yesterday?

09 Klo: ((looks away from Jul, possibly in direction of
M/W’s house))

10 ((returns gaze to Julinda))

11 (1.1)

12 Jul: Mindipi Wili–ne kheno ko–na.
Mindipi Wili-PR 3d be/stand/make.PFV–SPEC
I said Mindipi and Wili!

13 Klo: ((eyebrow flash to Julinda))

14 Jul: ((?nods))

15 Wel: sondopa-ne-ngi ra–ngi=pe.
four–ORD–TIME SHRD–TIME=Q
On Thursday, was it then?

16 Jul: ((turns head away from Kelo, to her front))

17 (1.5)

In an example from Hungarian, two university students are having a conversation by means of a telephone-like setup with headphones when one of them (Beáta) hears a knock through her headphones. She reacts with surprise (in line 8), wondering aloud what it was. Andrea initiates repair in line 10.

(13) Hungarian (ANDREA–BEÁTA 364.63S)

- 01 And: tehát érdekes volt legalább valakinek
 thus interesting was “at least” someone–Dat
 thus it was interesting at least someone ...
- 02 tetszett=
 like–Past
 ... *liked it*=
- 03 Beá: =ja igen=
 yeah yes
 yeah yes
- 04 And: = [(laugh)] .h ja
 yeah
 ((laugh)) .h *yeah*
- 05 Beá: [((laugh))]
- 06 ((knocks))
- 07 (0.46)
- 08 Beá: jaj mi ez
 oh what this
 oh what is this
- 09 (1.3)
- 10 And: -> hmm?=
 PART
 huh?=
- 11 Beá: =ja, csak hallottam valami kopogást
 yeah, just hear–Past1s something knock–Acc
 oh, I just heard some knocks

12.3.2 Possible motivations for form of interjection

Why are the interjection forms listed in Table 12.1 so close to each other in form despite the unrelatedness of these languages?¹⁰ Why do we not see an interjection for open-class other-initiation of repair that features high vowels like [i] or [u]? Or with segmental onsets like [b], [t] or [j]? We can only presume that there is some kind of indexical-iconic motivation that makes the sound [ha: + RISING PITCH] appropriate for this function. While human language is unique in many ways, it is not exempt from the forces of ritualization that can shape form-function relations in any form of animal communication.

Darwin (1872) proposed three principles by which expressive behavior in animals can come to have meaning: (1) a principle of function (behavior associated with some function comes to stand for that function); (2) a principle of antithesis (behavior that maximally contrasts in form with a “functional” signal comes to stand for the opposite function); (3) a principle of direct response (behavior that is a direct response of the nervous system to some kind of input) (Darwin, 1872: 166).¹¹ While Darwin was mostly referring

to visible behaviors of the body such as posture and facial expression, his principles are more broadly applicable. We now discuss some ways in which Darwin's principles could go some way to explaining what we find in the case of the other-repair-initiating interjections.

12.3.2.1 Motivation for form of the interjection by a principle of function?

In illustrating his first principle of ritualization of expression, Darwin hypothesized, for example, that feelings of disgust are linked with “serviceable” (i.e., functional) gestures of revulsion, such as blowing air out of the mouth or nostrils, with the tongue protruding. He noted that the wide-open mouth and guttural sounds commonly found in interjections of disgust fit these gestures (Darwin, 1872; Wierzbicka, 1991: 313–316). Could interjections with conversational functions such as the ones considered here be approached using a similar logic? One argument might be that the form of *huh?* [ha:] is connected to a common bodily behavior we observe accompanying other-initiated repair in our sample: an accelerated leaning forward of the torso toward the speaker of the trouble-source turn, as illustrated in Figure 12.2.

One result of this behavior of bringing oneself physically closer to someone is to be better able to hear and see what the person is saying. If this visual signal were to be accompanied by a vocal signal, perhaps a least-effort form would be [hã], as initiation of articulatory airflow is assisted by the leaning forward (which compresses the lungs) and phonation is simply frication at the narrowest place in the vocal tract followed by voicing, all articulators are in neutral position. Nasalization of the interjection, also found in many of the languages, may be connected to the fact that, for reasons of articulatory ease, syllables with initial *h-* are commonly nasalized (Matisoff, 1975; Blevins and Garrett, 1992). While this hypothesis for a natural motivation for the form of *huh?* is not inconceivable, it is hard to imagine how it could be tested.

We can also apply Darwin's principle of function in motivating the common (though not universal) rising of pitch in these repair-initiating interjections. Gussenhoven (2004) describes the “frequency code” (Ohala 1983; 1984), a semiotic principle based on the size of the articulatory apparatus, “and by extension, on the size of the creature that possesses it” (Gussenhoven, 2004: 94). This principle is “widely used for the expression of affective meanings,” where low pitch is associated with a physically larger signer and therefore with “masculinity, dominance/assertiveness, confidence, and protectiveness”; correspondingly, high pitch is associated with “femininity, submissiveness/friendliness, insecurity, and vulnerability.” The connection between high pitch and uncertainty is widely regarded as a motivating factor for the association of rising pitch with “questioning.”

(a)



(b)



Figure 12.2: Mandarin speakers (Taiwan): the speaker on the right utters a problem-source turn at T-1 (left frame); then the speaker on the left initiates repair with *hm?* as she moves her body sharply forward, also tilting her head toward the speaker of T-1 (right frame) (TPE 15).

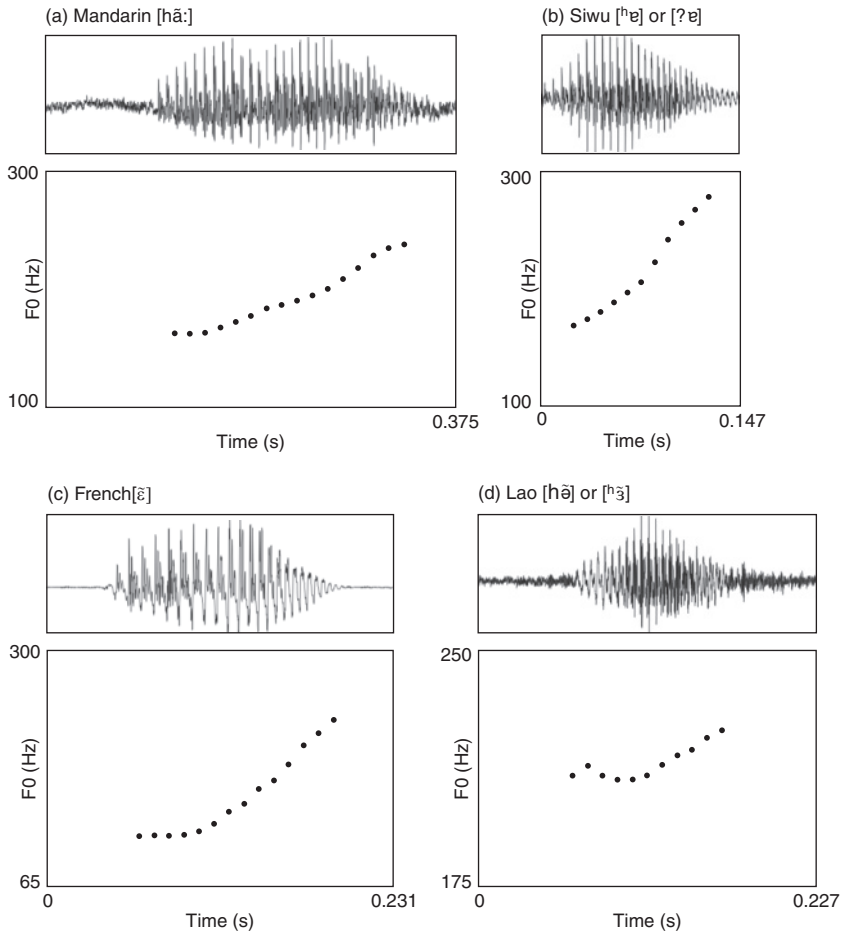


Figure 12.3: Pitch contours for typical tokens of the interjection strategy for other-initiation of repair in four languages: Mandarin, Siwu, French, and Lao.

Accordingly, the *huh*-interjection is generally rising in pitch in the languages in our sample, as illustrated by the examples given in Figure 12.3.

Two languages in our sample are exceptions to the tendency for *huh?* to have rising pitch: Icelandic and Cha'palaa. Let us take the Icelandic case as an example. In Icelandic, the open-class other-initiator of repair *ha* is pronounced with falling tone. A typical example is the OIR sequence in (14).

(14) Icelandic (ÍS-TAL: 04 ... 07 (11:56))

- 01 A: () ræður þá hver því bara hvað hann gerir
decides then each it just what he does
() *then just each decides what to do ...*
- 02 við sinn hluta (0.5)
with his share
... with his share
- 03 H: → ha=[ha:] ((falling intonation; see Figure 12.4))
huh
- 04 A: =ég segi það ræður þá bara hver því
I say there. EXPL decides then just each it
I say then each just decides
- 05 [hvað hann gerir við ()]
what he does with
what to do with ()
- 06 H: [Já akkúrat
yes precisely
yes precisely

A falling intonation on the interjection for other-initiation of repair may sound counter-intuitive to many non-native ears, but it is consistent with the internal organization of the Icelandic system of pitch in questioning. Although there is considerable variation in question intonation in Icelandic, the preferred nuclear question contour in WH-questions and yes/no-questions is a falling bitonal pitch accent followed by a low boundary tone, H*L L% (Dehé, 2009). The low boundary tone is typically used at the end of utterances (both declaratives and questions) to mark finality (Árnason, 1998; Dehé, 2009).¹² It is therefore not surprising that one can request information in Icelandic using the interjection *ha* with falling intonation.

In all of the Icelandic cases we examined, the pitch of *ha* was falling in this way. We observed the same in the data from Cha'palaa, where the pitch of *ha* is also falling (though we have less certainty about the conventional use of pitch in the questioning system more generally). Figure 12.4 shows pitch contours for typical tokens of the interjections in Icelandic and Cha'palaa. Aside from these two languages in our sample, we have found one similar case reported in the literature: in Lahu, a Tibeto-Burman language of mainland Southeast Asia, the *Huh?* word has falling pitch (Matisoff 1994). So, while we see in our sample a common natural motivation for the rising pitch contour, we also find exceptions, illustrating how conventionalization and interaction with other subsystems – such as question prosody – can attenuate the forces of iconic-indexical motivation in a linguistic system. Further work will establish the nature of the connections between prosodic conventions and the other-initiation of repair.

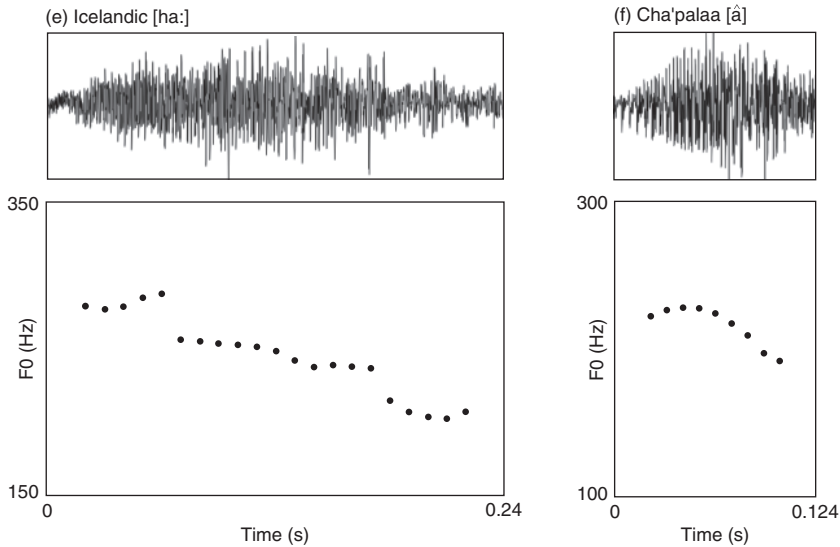


Figure 12.4: Pitch contours for typical tokens of the interjection strategy for other-initiation of repair in two languages: Icelandic and Cha'palaa.

12.3.2.2 Motivation for form of the interjection by a principle of antithesis?

Darwin's second principle by which expressions of emotion and related inner states may become fixed is a principle of antithesis: a bodily behavior can be a natural sign based not on what it *is*, but on what it *contrasts* with. Darwin (1872: 14–15) gives the example of how a dog signals affection. Darwin firstly notes the visible features of a dog in a “hostile frame of mind” – upright, stiff posture, head forward, tail erect and rigid, bristling hairs, ears forward, fixed stare – suggesting that these behaviors are intelligible by his first principle of function, that is, in that they “follow from the dog's intention to attack.” With these behaviors positively associated with the aggressive meaning, he argues, the dog may exploit this to express the opposite of aggression by simply “reversing his whole bearing,” that is, doing the opposite of what one would do when aggressive. Thus, when approaching his master in an “affectionate” attitude, visible behaviors include: body down, “flexuous movements,” head up, lowered wagging tail, smooth hair, ears loosely back, loose hanging lips, eyes relaxed. Darwin wrote:

None of [these] movements so clearly expressive of affection, is of the least direct service to the animal. They are explicable, as far as I can see, solely from being in complete opposition to the attitude and movements which are assumed when a dog intends to fight, and which consequently are expressive of anger. (Darwin 1872: 15–16).

Table 12.2: Some formal and functional contrasts between *Huh?* and *Oh!*

	Huh?	Oh!
vowel	low front	high back
rounding	unrounded	rounded
pitch contour	rising	falling
sequential position	initiating	responsive/closing
epistemic value	not-knowing	now-knowing

What, then, might *Huh?* maximally contrast with in form (and function)? A possibility is another common primary interjection with interactional function: *Oh!* (Heritage 1984; 1998; 2002; Wierzbicka 1991: 325). Supposing that *Oh!* is as cross-linguistically common as *Huh?*, could it be that these two simple conversationally procedural interjections get their meaning through a diagrammatic iconicity by which a maximal formal contrast in phonetic form (vowel quality, lip rounding) stands for a maximal functional contrast in interactional function (sequential position, epistemic value)? Consider Table 12.2.

If an opposition between *Huh?* and *Oh!* were to be motivated by Darwin's principle of antithesis *alone*, then it would explain the maximal distinction in form for these two functions, but it would not explain why the other-initiation of repair function would always map onto a [ha:] -like form rather than an [o:] -like form. But even somewhat weak functional motivations for those forms to have just those functions, in combination with the principle of antithesis, would presumably suffice to result in the form-meaning mappings that we observe.

12.3.2.3 Summary Naturally any ritualization arguments for form-meaning mappings like those just presented must remain tentative. Nevertheless, we submit that factors like effort, articulatory phonetics, bodily gestures, and systemic contrast should play a role in explaining phonetic similarities of interjection forms across languages, as in the striking case of *Huh?* across languages. For linguistic items like the interjections discussed here, these natural factors are overlaid by language-specific conventions. Sapir recognized this when he proposed that interjections, though linked historically to “instinctive cries,” are fully conventional and “differ widely in various languages in accordance with the specific phonetic genius of each of these” (1921: 4).¹³ As this chapter shows, the forms may differ less than widely. But in line with Sapir we would expect to see in interjection systems not *pure* natural meaning, but some attenuation of those forces due to the “specific phonetic genius” of individual language

systems, and in general, the socially mediated nature of conventionalized interjections.

12.3.3 Question word strategy

The question word strategy for open-class other-initiation of repair shows much more variation across the languages not only in the phonetic form of the key lexical item (as is readily seen in the rightmost column of Table 12.1). Variation is also observable in whether the word may be used alone (as in the case of English *What?*), whether it may be phonetically reduced (English *Wha'?*), whether it is necessarily or more usually embedded in a more complex structure (such as in the Chintang form *themkha* “what + EMPHATIC PARTICLE” or the Icelandic form *hvað segirðu/sagðirðu* “What do/did you say?”), which question word is used (e.g., “what” versus “how”), or indeed whether the language does not seem to make this strategy available at all. We now discuss these different patterns of question word use in open-class other-initiated repair.

12.3.3.1 Bare question word “what” In some languages, the question word “what” can be used all by itself as an open-class other-initiator of repair (e.g., *What?* in English, as we saw in example 3). This question word tends to be the one also used for “things.” In an excerpt from Cha’pala (a Barbacoan language of Ecuador), a man tells his daughter (walking from off camera into the shot) not to walk in such a way that the floor vibrates, because it might cause the camera on the tripod to move. The daughter answers with the word *ti* (“what”), which then elicits a full repetition of the negative imperative form (with the addition of a reason for the admonition).¹⁴ After the repetition H goes on to elaborate his negative imperative with a declarative clarification “It could fall.”

(15) Cha’pala (CHSF2011–01011S2 1:34–1:38)

- 01 H: pikish –ne –tyu mama
tremble–walk–neg mama
Don’t walk vibrating “mama”
Don’t make the floor vibrate, daughter.
- 02 (.)
- 03 N: → ti
what
- 04 H: pikish –ne –tyu (.) tya’pu-mi
tremble–walk–neg (.) fall.over–decl
Don’t walk vibrating (.) it falls.
Don’t make the floor vibrate (.) the camera could fall.

Here is a case from Mandarin (drawn from a recording of Beijing Mandarin). Friends are discussing each other's email addresses to determine whose is the coolest.

(16) Mandarin (CMC01)

- 01 Wan: haishi wo de zui ku.
or 1SG PRT most cool
then mine's the coolest.
- 02 Zha: ni de jiao sha?
2SG PRT call what
what's yours?
- 03 Wan: in my eyes. ((in English))
in my eyes.
- 04 Zha: → shenme?
what
what?
- 05 Wan: in my eyes a. heh
PRT
in my eyes. heh
- 06 Nin: duo ku a. shi bijiao ku.
much cool PRT COP relatively cool
Very cool. It's cooler.

And here is an example from French:

(17) French (Torreira 27-11-07_2_F13R_2298)

- 01 A: Je pense pas qu'elle avait dit que les carreaux
I think not that.she had said that the tiles
I don't think she said that the tiles
- 02 allaient mieux
went better
looked better.'
- 03 B: → Quoi?
What?
- 04 A: Je pense pas qu'elle avait dit que les carreaux
I think not that.she had said that the tiles
I don't think she said that the tiles
- 05 allaient mieux
went better
looked better.'

12.3.3.2 Abbreviated forms Some of the languages show a shortening or abbreviation of the “what” word in the function of other-initiation of repair. In an example from Kri (a Vietic language spoken in Laos), the usual word for “what” *tuqèè*, is shortened to *qèè*.

confirmation celebration at very short notice. Halldóra's speech becomes unclear due to laughter, which triggers Anna's repair initiation at line 5.

(20) Icelandic (ÍS-TAL:04...07 (00:05:40))

- 01 H: ...þá um kvöldið sko
then in evening–the well
... *then in the evening* ...
- 02 fermingardagskvöldið þá hafði hann
confirmation–day–evening–the then had he
... *the evening of confirmation then he had* ...
- 03 hringt í þau (0.5) og ((laughs)) og boðið þeim
called to them and and invited them
... *called them and, and invited them*
- 04 ((laughs (1.2)))
- 05 A: → ((laughs)) ha hvað segirðu
huh what say you
huh what do you say?
- 06 H: þegar hún Ragnheiður fermdist
when she Ragnheiður was confirmed
when Ragnheiður was confirmed
- 07 A: já
yes
- 08 H: þá hringdi hann (0.9) sem sagt (0.5) að kvöldi
then called he as said at evening
he called in the evening ...
- 09 fermingardagsins
confirmation–day–the.GEN
... *of the confirmation*

In Italian, we see two distinct forms for “what” – *che* and *cosa* – occurring as an idiomatic combination. In example 22, Amerigo is talking to Giacinta about his friendship with Elisabetta (who is also present). The repair initiation is due to the fact that Giacinta doesn't catch Amerigo's word play with Elisabetta's name in line 2. In line 3 Giacinta seems to be using a continuer (from off-camera) to invite Amerigo to go ahead with his telling, and without showing any reaction to Amerigo's joking speech. Amerigo tries to resume his telling in lines 5 and 7. However, both Elisabetta's laughter in line 4 and Amerigo's smile-voice in 5 possibly make Giacinta realize that something happened in the prior turn which she didn't get, and she initiates repair in line 6. Her repetition of the pun in line 11 displays her appreciation of it, following Elisabetta's repair in line 8.

(21) Italian (Amerigo1:00.56.14)

- 01 Ame: da quando:: il nos– il rapporto fra
from when the our the relationship between
since:: *ou– the relationship between* ...
- 02 me:: e l'ebilasetta: è cresciuto:?
me and the ebilasetta is grown
... *me*:: *and Ebilasetta: has grow:n?*

- 03 (Gia): [(eh)
 (uh huh)
- 04 Eli: [ebilase(hh)tta ((laughs))
- 05 Ame: £(hh)e::h£, .hhh
- 06 Gia: -> [che cosa?
 what?
- 07 Ame: [allo–
 PCL
 so–
- 08 Eli: hhh [ebilasetta
- 09 Ame: [da quando: il nostro =
 from when the our
 since: our ...
- 10 =rap[porto è-
 relationship is–
 ... *relationship has–*
- 11 Gia: [ebila↑se(hh)t[ta
- 12 Ame: [((laughs))

In Chintang (a Tibeto-Burman language of Nepal), *them* “what” often occurs in combination with a special “emphasis” marker, =*kha*. In example 22, a group of villagers have been talking, when BSR – who has been silent for a long time – poses a question that is completely unrelated to the current sequence. This is received with an open-class other-initiation of repair from KBR (line 3), after which BSR asks the same question again, in reordered form (line 4).

(22) Chintang (PORCH_POSTMAN (00:32:07 – 00:32:13))

- 01 BSR: [moba sa]lo chace yuŋno ?
 mo –ba sa –lo cha –ce yuŋ–no
 DEM.DOWN–LOC who–NOM child–NSG sit–NPST
 down who children is?
 Up there, is that the children there?
 ((points upwards, with hold on *yuŋno*; after *salo*, KBR
 turns his head to face BSR))¹⁶
- 02 (0.3)
- 03 KBR: -> them(k)ha
 them=kha
 what=EMPH
 what?
 What?
- 04 BSR: chace uyŋno , mo[ba]
 cha –ce u –yuŋ –no mo –ba
 child–NSG 3ns–sit –NPST DEM.DOWN–LOC
 (the) children are, down?
 Are the children there, up there?
 ((repeats point))
- 05 KBR: [ee] chace
 ee cha –ce
 INTERJ child–NSG
 yes children
 Yes, the children.

12.3.3.5 Languages with no question word strategy? For two languages in our sample, the available data do not yield examples in which the question word strategy is used for open-class other-initiation of repair. These are Tzeltal, spoken in Mexico, and Yélí Dnye, spoken in island Papua New Guinea. This is not to say that the languages lack a question word for “what” (see Brown, 2010; Levinson, 2010 on the question systems of these languages). Rather, when the relevant “what” word is used in other-initiation of repair, it is to initiate restricted-focus repair, that is, it asks “what thing (did you mean)?” It remains to be seen whether further data collection may turn up cases of a question word functioning to initiate open-class repair in these languages. Our impression for many of the languages sampled here is that the question word strategy for “open-class” repair is less frequent than the interjection strategy.¹⁷

12.3.3.6 Summary We have seen in this section that there is considerable variation in the ways in which a question word can be used for “open-class” other-initiation of repair. One issue for us was whether a question word can be used for this function at all. We found that the answer seems usually to be “yes,” but that this question word strategy appears to be less frequently used for this function than the interjection equivalent. For two languages in the sample we found no occurrences at all of a content word for open-class other-initiation of repair. A second question was the identity of the relevant question word: in most cases, it is “what?”; that is, the word for questioning “things.” In a few cases, another question word may also be used, such as “how?”, but this seems to be an additional option when “what?” is also available. A third question was whether the question word could be used all on its own, or whether it is embedded in a larger structure, for instance with certain morphosyntactic marking, or in a complete sentence. We found languages in which some morphosyntactic marking is obligatory (as in Icelandic) and also languages in which the question word may appear on its own but also optionally in more complex morphosyntactic structures (as in English: *What did you say?*).

12.3.4 Visible behavior in sign language and spoken language

The relevance of visible behaviors for the management of intersubjectivity in conversation is well established (Kendon, 1967; Goodwin, 1981; Rossano, Brown, and Levinson, 2008, inter alia). Goodwin has described how speakers can use *self*-repair to secure a recipient’s gaze. The converse, the use of visible behaviors in *other*-initiation of repair, has been less commonly considered (but see Seo and Koshik, 2010). In our data, common visible behaviors associated with other-initiation of repair are (1) eyebrow movements (raising and/or bringing together), (2) gaze towards the speaker of T–1, and (3) head or body movement toward the speaker of T–1, as discussed above (Figure 12.2). Each of these behaviors is relevant to other-initiation of repair

in its own way. Eyebrow movements commonly occur with questions in spoken as well as signed languages (Ekman, 1979; de Vos, van der Kooij, and Crasborn, 2009), recipient gaze is often used as a display of attention, and body movement toward the speaker improves perceptual access.

There is one language in our sample – Argentine Sign Language or LSA – that relies on the manual-visual channel entirely. As a sign language, LSA does not feature vocal forms as listed in Table 12.1, but its strategies for other-initiation of repair are nevertheless similar to what we find in the spoken languages in our sample. Firstly, we observe in LSA the same sequential structure for other-initiation of repair (both open-class and restricted-focus) as outlined in Figure 12.1. The strategies for open-class other-initiation of repair at T0 in LSA involve conventionalized eyebrow movements, hand signs such as “what,” and movements of the head and/or body toward the signer of the problem turn.

In example 25, illustrated in Figures 12.5 and 12.6, two friends are chatting over dinner about places to live in Buenos Aires Province. Signer A (left), after multiple checks for signer B’s attention, resumes a previous sequence in line 4 by asking a question (line 4 and Figure 12.5). However, B is looking down during the production of this turn. In the next turn, B initiates repair by raising his eyebrows (Figure 12.6, glossed as “ER” in line 5), then bringing them together and making the sign “wait” (Figure 12.7, glossed as “ET + wait” in line 5). As is evident from Figure 12.5, the problem is one of seeing, and accordingly, A treats it as such at line 6, when he fixes the problem by repeating the utterance and filling in the ellipsis.

(25) LSA (PIZZA 1.12)

- 01 A: ((looks at B while B is eating))
 02 (0.3)
 03 A: ((looks at B while B is looking in other direction))
- 04 A: $\overline{\text{PRO1 SAY-NOT PRO3 PRO1}} \overline{[\text{PU}_s+\text{ER}::]}$
I am not going to tell them, right?
- 05 B: → [ER ET+WAIT::=
Ah wait, huh?
- 06 A: =PRO1 SAY-NO [PRO3 PALM-UP TAKE-CARE THIEVES
*I am not going to tell them, you take care there
 are thieves (in the neighborhood where his friend
 is going to move)*
- 07 B: [PU
Sure.

In the spoken languages in our sample, we also observed that certain visible behaviors were associated with other-initiation of repair. These behaviors are similar to the strategies used in LSA: leaning forward toward the speaker of



Figure 12.5: At line 4, A requests B's confirmation (see example 25).



Figure 12.6: At the start of line 5, B initiates repair on A's prior turn by raising his eyebrows as a first indication of a problem (see example 25).



Figure 12.7: Immediately after this, B initiates open-class repair by bringing his eyebrows together and signing “WAIT” (see example 25).

the problem turn in order to get physically and thus perceptually closer (illustrated by a case from Mandarin in Figure 12.2, p. 360 above); using certain facial expressions including marked positioning of the eyebrows (raised in some cases, drawn together in others).

The visible behaviors that we find to be associated with other-initiation of repair are arguably fitted to the role of repair in fixing problems in perceiving and understanding. For instance, leaning forward makes it more likely you will better perceive what is said. Also, eyebrow movements are associated with thinking and “wanting to know” (Ekman and Friesen, 1975; Wierzbicka, 1999: 4).

12.4 Conclusions

We have presented the first findings of a cross-linguistic study of open-class other-initiation of repair. The findings are consistent with the view that other-initiation of repair is a system, linked into other systems of language such as a system of interjections, a system for formulating questions, and a system of visible behavior. We hope that our findings will be treated as suggestive hypotheses to be tested more systematically in subsequent research.

In open-class other-initiation of repair, all spoken languages in our sample make use of a primary interjection strategy, in which a *huh*-like interjection is used to initiate repair. A notable finding was that the phonetic form of this interjection is strikingly similar across languages, suggesting that indexical- iconic motivation is one of the forces that shapes it. While we have considered possible motivations for this particular form-meaning mapping, further work is required to determine the extent to which the interjection takes a conventional form that fits the phonemic and prosodic system of a given language (as is known to be the case with interjections more generally). We would expect that natural motivation and conventionalization work together to shape the phonetic form of these items.

Most, but possibly not all, spoken languages, as well as the sign language in our sample, also have a question word strategy for open-class other-initiation of repair. This may involve a word that means “what” all by itself, or it might (in addition) involve a more complex phrase, or a different question word, such as “how.” The specifics of the question word strategy are, again, in part determined by the wider linguistic system. Here the constraints of the wider system are not just phonological, as with the interjection strategy, but also grammatical. The existence of more complex forms like “What’s that?” and “What did you say?” in many of the languages that can use the question word on its own suggests a derivational relation between the single word strategy (“What?”) and the more complex phrase (“What did you say?”).

We hope here to have made a contribution to research on repair by putting the issue of linguistic diversity front and center. The field of research on language in social interaction is only just beginning to become truly comparative, as we broaden our scope to include not only the world’s larger, better-known languages, but also the much more numerous, and arguably more representative, languages spoken by smaller populations in widely ranging cultural environments.

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NOTES

- 1 Spoken texts such as recorded narratives and other kinds of monologue are now standardly used as sources for grammatical description, and while these will indeed contain cases of repair, those cases tend not to be a focus in linguistics (though they are sometimes a focus in psycholinguistics, e.g., Levelt 1983a *inter alia*). But even if one were to describe the cases of repair found in recorded monologues, one would

not capture data on the kind of repair discussed in this chapter: other-initiated repair. A further reason why field linguists have overlooked the description of repair may be a kind of “invisibility” of repair in communication, due to its very ordinarieness. When field linguists say *Huh?* and it works, this doesn’t end up in their field notes. It is only when it doesn’t work at first that it gets noted (as in Matisoff 1994: 117, 127n8).

- 2 The project is supported by funding from ERC project “Human Sociality and Systems of Language Use” and “Interactional Foundations of Language” Project, Language and Cognition Department, Max Planck Institute Nijmegen.
- 3 Previous work on other-initiation of repair has mostly been on English (Schegloff, Jefferson, and Sacks 1977; Drew 1997; Robinson 2006, *inter alia*; Egbert, Golato, and Robinson 2009; Robinson this volume), but has also featured work on a few other languages (Moerman 1977 on Tai; Egbert 1997 on German; Zhang 1999 on Mandarin Chinese; Kim 2001 on Korean; Sidnell 2007 on Caribbean English Creole, *inter alia*).
- 4 We use the term “open-class” here for consistency with the conversation analytic literature on repair (cf. Drew 1997; Sidnell 2010: 119ff), though we note a terminological clash. “Open-class” has long been in use as a technical term in linguistics, with a different meaning (Halliday, McIntosh, and Stevens 1964: 22; Lyons 1968: 436; Talmy 2000: I: 22). In the lexicon, an open-class item is a member of a set that is large and in principle not limited – e.g., nouns and verbs in English – by contrast with closed-class items such as grammatical morphemes that mark case, agreement, etc. By contrast, with reference to other-initiation of repair, “open-class” does not refer to a class, but to a certain scope of *focus* in information structure terms (cf. e.g., Chafe, 1980 and Lambrecht, 1994): an open-class repair initiator has something like “unrestricted focus” (Lambrecht 1994: 233ff), that is, focus on the whole of the prior utterance. This is in contrast with other kinds of other-initiators of repair that have restricted focus on some sub-part of the relevant turn or clause (e.g., “Who?”, “Where?”, “Which one?”, “He did what?”). For other-initiation of repair, when we say “open-class” in this chapter, we do not mean this in the linguistics sense of the word, but rather in the technical sense of “unrestricted focus.”
- 5 Jeff Robinson notes some differences between English *What?* and *Huh?* in personal communication (cf. Robinson 2006: 142). Based on impressions from a large collection of the two forms in English, Robinson suggests that *Huh?* may be more often dealing with problems of hearing and understanding, while *What?* may be more likely to extend into dealing with problems of alignment/agreement/affiliation. He notes that *What?* can show greater formal variation as well (e.g., greater variety of prosodic variants). See Robinson (2006) for discussion of other distinctions in the English system for open-class other-initiation of repair; also Egbert, Golato and Robinson (2009), Robinson (this volume).
- 6 The data are all recordings of maximally informal interaction, typically between people who know each other well (family, friends, neighbors). None of the data are from institutional contexts. This means that we do not have the range of data necessary for looking at distinctions in formality or politeness. In most cases, the data were video-recorded, except in the cases of Icelandic and Hungarian, which were audio-only. In most cases, the data were collected in fieldwork by the researcher (with funding from MPI Nijmegen and ERC HSSLU project). Data

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- 7 The forms in this column are representative tokens observed in our data sample. There is no implication that these are the only forms found in the language. A closed-mouth version [hm] was observed in the data for some of the languages, and therefore included in the table. It is likely that it is available in more languages and would surface in larger data samples.
 - 8 We list LSA (Argentine Sign Language) for completeness in this table but we cannot give entries for the rightmost two slots because this table lists only vocal sounds. See section 3.4 for discussion of the situation in LSA (see also Manrique, 2011).
 - 9 He was, however, equivocal on the non-word status of these forms. In the same paragraph he stated that “the sound that covers any particular non-word can stand by itself, is standardized within a given language community, and varies from one language community to another, in each case like full-fledged words” (1978: 810).
 - 10 It is not unimaginable that the forms are borrowed across the languages, but this seems highly unlikely. While it is true that interjections, being free-standing units, may be more likely than many other elements of language to be borrowed across languages, due to their salience and their lack of grammar-specific contextual constraints, this would not be enough to account for the uncanny similarity across languages of such extreme typological and geographical diversity as those in our sample.
 - 11 Perhaps when Levelt (1983b) refers to *uhlum* as a “symptom” he means that it is motivated by Darwin’s third principle, that is, these interjections are comparable to “a start from a sudden noise” (Darwin 1872: 9).
 - 12 Árnason (1998) notes that questions ending in an L% tone are “simple requests for information” while questions ending in a H% tone (less frequent) involve “a friendly suggestion by speaker A” (p. 56).
 - 13 Human communicative systems for interaction include the full gamut of our inherited resources. Humans have a unique system of dual inheritance (Durham 1991; Boyd and Richerson 1985; Richerson and Boyd 2005), which means that a child inherits both a set of natural affordances grounded in phylogenetic history and a set of cultural affordances grounded in cultural history. In human communicative interaction we see these two sources grafted together.
 - 14 In the repeated version of T–1, the speaker omits the address form *mama* (*mama* and *papa* are commonly used to address children in Cha’palaa, although they are more literally words referring to parents).
 - 15 It can, however, function as a restricted-focus repair initiator picking out a singular, nominally expressed referent in nominative or accusative case, usually neuter.
 - 16 The apparent contrast between the verbal and gestural messages can be resolved in the following way: the room in which BSR’s grandchildren spend most of their time is vertically above him (licensing the pointing gesture), but to his left, thus on his “downhill” side (justifying *moba*).
 - 17 Jeff Robinson (personal communication) confirms this for English based on a large collection.