

Three Types of “Root Infinitives”: Theoretical Implications from Child Japanese

Root Infinitives (RIs) are non-finite verbs in matrix clauses, which are widely observed in child languages at around the age of two, as in (1) (Rizzi 1993/1994, Wexler 1994, among others). Instead of RIs, however, children speaking such languages as Inuktitut, Swahili and Malagasy (Swift&allen 2002, Deen 2002, Ntelitheos&Manorohanta 2004, among others) produce bare verbs by omitting the functional elements as in (2)*¹, and children speaking languages such as Italian (Salustri&Hyams 2003), Spanish (Grinstead 1994), Greek (Hyams 2005), Korean (Kim&Phillips 1998), Turkish (Aksu-Koç&Ketrez 2003) and Japanese (Murasugi, Fuji&Hashimoto 2007, Murasugi, Nakatani&fuji 2009) produce “Root Infinitive Analogues (RIAs)” attaching the default marker on the verb stem as shown in (3)-(5). Deen (2002) proposes that very-early-non-finite verb forms that the young children produce are classified into three as shown in Table 1: RIs, non-RIs and bare verbs.

This paper basically supports the typology proposed by Deen (2002) for the very-early-non-finite verb forms. Based on a longitudinal observation of a Japanese-speaking child (0;1-2;3) and the corpus analysis (CHILDES: Jun/Aki/Tai/Taro/Sumihare), and the previous studies on child Korean (Kim&Phillips 1998), first, we present the empirical evidence showing that in both Japanese and Korean, the Surrogate Infinitives, instead of Root Infinitives, appear as the very-early-non-finite verbs (Root Infinitive Analogues) as in (3)-(5). We argue that children acquiring [-bare stem] languages whose verb stem cannot stand alone, (Hyams 1986), at around one/two year(s) of age, attach an unmarked morpheme (e.g., *ta* (past-tense) in Japanese (Murasugi, Fuji&Hashimoto 2007) and *-e* (mood marker) in Korean (Kim&Phillips 1998)) to the verb stem to make it a well-formed morphological “(surrogate) form,” the mechanism of which is also found in the adult grammar (Cinque 2004, among others).

Second, we show that Japanese-speaking children also produce the Swahili-type Root Infinitive Analogues. We argue that Japanese-speaking children, at around 1;5-1;8, produce not only the Surrogate Infinitives (V+*ta*) shown in (5), but also the “bare” onomatopoeias (dropping the light verb *suru* ‘do’) as in (6), as RIAs. Both types of RIAs show the typical properties that the very-early-non-finite verbs often have; they are used in modal contexts (the Modal Reference Effects=MREs) and they express result state and progressive of events. Comparing the child bare onomatopoeia RIAs with the analysis of the adult onomatopoeias (typically followed by the light verb *suru* ‘do’) used with specific argument structure (Tsujimura 2009) and MRE found in the adult bare onomatopoeic verbs as in (7), we argue that no learnability problem arises. Even 1-year-old children know the properties of the onomatopoeic verbs, and use the “bare” onomatopoeic verbs as the Root Infinitive Analogues.

Based on the argument given above, we propose, refining Deen’s (2002) proposal, that the child non-finite verbs are classified into three types as shown in Table 2: RIs like German and Dutch, RIAs of Surrogate Infinitives like Italian, Spanish, and Korean, and RIAs of bare verbs like Inuktitut and Swahili. Japanese, a [-bare stem] language with rich onomatopoeias, is a language which allows two types of RIAs, i.e., the Surrogate Infinitives like Italian, and the “bare” onomatopoeic verbs, like Swahili.

Child languages may give adult languages counsel. The typology presented here would not only ensure the existence of three types of “Root Infinitives” in child languages, but also suggest the three types of verb types in the world languages. Furthermore, two types of Root Infinitive Analogues observed in child Japanese give advice to the linguistic theory: If the [-stem] language allows an option to have bare verbs, children voluntarily try out the two types of “Root Infinitive forms” as the first possible verb forms even at the age of one, without being given any direct model from their input available.

