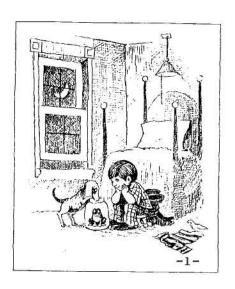
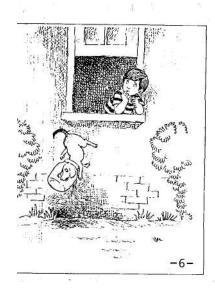
Appendix I Frog, where are you?



 $^{^1}$ Pictures reproduced from Mayer (1969), with permission of the author/artist and publisher. Original format: 25 cm x 14.5 cm, sepia-tone, one single panel or one-half double panel per page, no text; page numbers added.

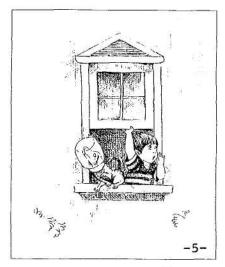








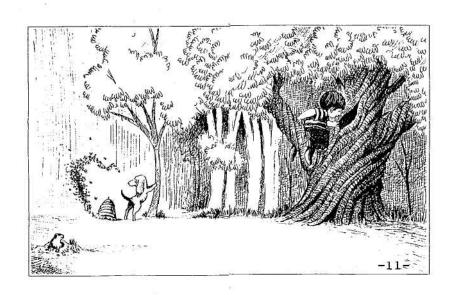


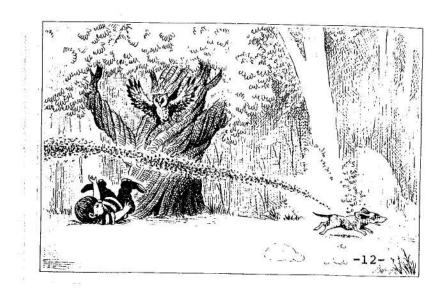
























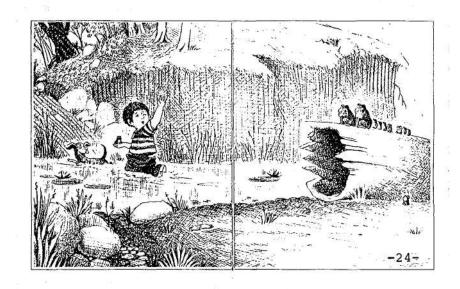












Appendix II GLOSSING AND

TRANSCRIPTION CONVENTIONS

1. GLOSSING

All examples from the transcripts, in any language, are given in italics. Boldface (both roman and italic) is used for authors' emphasis. Words in capitals indicate intonational emphasis, based on the tape recordings. Glosses are given in single quotes, e.g., kurbaga 'frog'. Where an item would normally be obligatory in English but is omitted grammatically in the source-language, the "missing" element is given in parentheses, such as pronouns in "pro-drop" languages, e.g., cayeron '(they) fell'. In some contexts, the symbol \varnothing is used to represent a zero-morpheme. Where necessary for interpretation, references of pronouns are indicated by an equal sign in square brackets, e.g., Er f all t vunter 'He [=boy] fall down'.

The following conventions are used for glossing grammatical morphemes:

- Elements in the gloss which are expressed by a single lexical item in the original are separated in the gloss by a period, e.g., *hipil* 'made.fall', as are names for grammatical elements, e.g., PRES.PERF = present perfect.
- Grammatical morphemes are appended after a colon, e.g., *cayó* 'fell:PFV'. The same convention is used for combinations of grammatical morphemes, e.g., *düşüirüyor* 'fall:CAUS:PRES'.
- In examples for which morphological segmentation is relevant to the discussion, morphemes are separated by hyphens, corresponding to hyphens in the gloss, e.g., *geç-ir-iyor* 'get.on-CAUS-PRES.
- If an example has both a morpheme-by-morpheme and a more colloquial gloss, the latter is given in single quotes, using the following format:

Bayku§ dü§üirüyor onu, köpek de kaçvyor.

owl fall:CAUS:PRES him dog TOPIC run.away:PRES

"The owl knocks him [=boy] down; and as for the dog, he runs away."

Grammatical categories a# abbreviated and given in small caps. The following abbreviations are used:

ABL = Ablative

ACC = Accusative

ART = Article

ASP = Aspect

AUX = Auxiliary

CAUS = Causative

NEG - Negative

NOM = Nominative

NONPAST = Nonpast

NUM = Numeral, Numeric

OBJ = Object

OPT = Optative

CAUS - Causative

CL = Clitic

COMPL = Completive

CONTIN = Continuous, Continuative

COP = Copula

DAT = Dative

DEF = Definite

OF T Optative

PART = Participle

PASS = Passive

PAST = Past

PAT = Patient

PERF = Perfect

PFV = Perfective

DO = Direct Object

D.PAST = Direct Experience Past

EVID = Evidential

FEM = Feminine

FIN = Finite

FUT - Future

GEN = Genitive

PL = Plural

POSS = Possessive

PP = Past Participle

PREP = Preposition

PRES = Present

PRO = Pronoun

PROG = Progressive

PTL = Particle HAB = HabitualPURP = Purposive INCH = Inchoative RECIP = Reciprocal INF = Infinitive REFL = ReflexiveINFER = Inferential RC = Relative ClauseINSTR = Instrumental REPET = Repetition INTRANS = Intransitive RES = Resultative10 = Indirect Object SG = SingularIPFV = Imperfective SIM = Simultaneity IRR = Irrealis STAT = StativeITER = Iterative LOC = LocativeSUBJ = Subject TNS = TenseMASC = Masculine

M.PAST = Modal/Indirect Experience Past TRANS = Transitive

N = Noun V = Verb

MOD = Modal

Narrator identification. Every example from a narrative is followed by a narrator identifier in square brackets, indicating the language, age group, specific narrator, and specific age. For example, [E4c-4;6] denotes an

TOP = Topic

English-speaking 4-year-old who was the third child (4c) in the sample, aged 4;6. Any linguistic example without such an identifier is an invented example.

2. TRANSCRIPTION

A uniform format was applied across the sample for transcribing the texts. The basic unit of analysis is the **clause**, defined for this study as "any unit that contains a **unified** predicate" by which we mean "a predicate that expresses a **single** situation (activity, event, or state), including finite and nonfinite verbs as well as predicate adjectives" (Berman, et al., 1986, p. 37; and see Chapter IB, Section 2.3). Each clause was entered on a new textline, as in the example reproduced below of the text of an English-speaking 5-year-old (E5d-5;6). (To aid researchers who might want to use our definition of the clause in their own transcriptions, this Appendix ends with the extended instructions to coders from our coding manual [Berman, et al., 1987.)

Transcripts, in this form, are available for public use in the CHILDES archive (MacWhinney, 1991; e-mail info-childes@andrew.bitnet or info-childes@andrew.cmu.edu). Each clause in a transcript is preceded by an ID code which identifies the subject, the picture to which the utterance refers, and a clause number. The prefix of the ID consists of six digits for children and four digits for adults, and specifies the subject's age and position in that age group (for each particular language). The data portion of the ID specifies the picture that the subject was looking at when s/he produced the utterance entered on that textline and the number of the clause in that text. Thus, for example, in the text reproduced below, the string 05;06D 03b005 refers to a child aged 5 years and 6 months who is the fourth child in that age group (in the English sample), talking about picture 3b, and the textline is the fifth clause out of the total 24 in that text. An example of an adult ID would be 20j llaO95, standing for the tenth adult talking about picture lla, in the 95th clause in that text, and assigning an arbitrary age of 20 to all adult subjects.

The first three digits in the data portion refer, as noted, to the **page** in the picturebook which the subject was referring to when producing that line of the text. Unlike the consecutive numbering we have used for the frog-book pictures throughout this study, from 1 to 24, the original transcriptions list the pages as from 01- to 15-, with a hyphen (-) standing for a picture that fills two facing pages, the letter **a** specifying a lefthand picture and **b** a righthand picture on pages which have two separate pictures. In order to identify the picture the subject was referring to for every piece of the recording, the investigator would lightly tap on the microphone when the subject moved his or her eyes to the next part of the page, or turned the page. When the subject did not refer to each page consecutively, but either skipped or turned back one or

more pages, this was noted down by the investigator and so indicated on the transcript.

A new textline was used for each clause, even if this was not a complete sentence or a well-formed subordinate or nonfinite clause — as in clause #1 in this sample transcript. However, a single clause might contain more than one verb, when one of the verbs expresses an aspectual or modal specification of the main verb, rather than an independent event or state — as in clauses 2, 3, and 11, and then they were going to sleep, and then he's gonna go out the window, and they start calling.

All text was entered in lowercase letters, using conventional orthography and spelling, except where potentially relevant for morphosyntactic or semantic analysis. (Following German orthographic convention, German nouns were capitalized.) For example, the *-ing* form of the verbs *looking* and *calling* in the sample text would be transcribed as such even if the child pronounced them as *lookin*, *callin*. Another example is of initial *h* in Hebrew, which is quite typically elided in everyday adult as well as child speech, but which was always indicated so as to ensure consistency of lexical forms.

In the case of Hebrew, the only language in our sample with a non-Roman script, texts were entered in broad phonetic transcription (see Chapter HID).¹

Material in square brackets indicates interviewer comments to the child and remarks on the situation (e.g., what page is being described in unclear or nonconsecutive references, as in clauses 7 and 16 in this text). Curly brackets indicate false starts or repairs (e.g., clause 24), uninterpretable strings (e.g., clause 8), and other material which was not included in our coding system (Chapter IB, Section 2.3). Thus, all material, except what occurs between square brackets, represents the subject's output as recorded by the investigator. Text length in clauses {IB-Table 3} is based only on clauses not totally enclosed in curly brackets. (Thus the sample in 2.1, below, has 23 codable clauses, excluding 008.)

¹ The main departures from fairly standard English distinctions in the Hebrew transcriptions are: *c*, which stands for the Hebrew letter *cade*, pronounced as *ts*, as in the loan English word *tsetse*, and *x*, which stands for the voiceless velar fricative (and also the historical pharyngeal *chef*), pronounced like the final consonant in words like *Bach*, *loch*. These occur in the Hebrew frog story, in words like *cfardea* 'frog', *cincenet* 'jar', and *rac* 'run' or *xipes* 'searched', *baxa* 'cried'. The glottal stop *alef*, where needed to represent a historical root (it is typically not pronounced in normal speech in word-initial or word-final position) is represented by a question-mark, and the apostrophe represents the historical pharyngeal *ayin* for roots, and otherwise is used to indicate a modified glottal stop between two vowels, e.g., *ne'elam* 'disappeared', *le-he'alem* 'to-disappeare'.

The following standardized conventions were used to indicate (minimal) prosodic features of the text:

Default (no indication) = steady or sustained intonation

A dash (-) = a short pause

Three dots (or more if needed) = a longer pause

Comma (,) = partially falling intonation

Period (.) = fully falling intonation, end of utterance

Question-mark (?) = end of question-type utterance

Single slash (/) = rising intonation or other indication of marked emphasis

Double slash (//) = exaggeratedly marked emphasis

Exclamation-mark (!) = on both sides of a word or series of words, indicates excited delivery (e.g., ! Look!)

Colon (:) = lengthening of a vowel (e.g., *rum* stands for a long drawn-out pronunciation of the English verb 'run' and *ra:c* stands for something like *raaaac* in its Hebrew equivalent

Three exes (xxx) = an unintelligible string

Parentheses () = uncertain, but possible interpretations of a string.

Other comments on paralinguistic features such as speech quality are indicated in square brackets, e.g., [whispering], [child laughs]. As noted in various connections throughout the book (e.g., in Chapter IB-Section 2.4, Chapter IIA, Chapter IVC, Section 2), this level of transcription does not allow for indepth analysis of the role of prosodic (or other paralinguistic features) elements in telling the frog story.

2.1. Sample Transcript

```
05:06D
           01-001
                   looking in [uhhuh]
05;06D
           02a002
                   and then {he - } they were going to sleep,
05;06D
           02a003
                   and then he's - gonna - go out the window [singsong]
                   [he's gonna go out the window / oh.]
           03a004
05;06D
                   and then he - he had - a jar stuck on his head,...
[uhhuh/]
           03b005
05;06D
                   and then they were - calling for the frog, [umhm/]
05;06D
           04-006
                   and then he - breaks - the jar. [oh.]
05;06D
           05-007
                        there's a - beehive, [yep.] and a gopher, [from page 6a]
05;06D
           06-008
05;06D
           07-009 and ... the beehive fell down, [umhm/]
05:06D
           07-010 and they look in the tree,
05;06D
           09-011
                   and they ... and they start calling, [umhm/]
05;06D
           09b012 and they think
05;06D
           09b013 that's sticks,
```

```
05:06D
           10a014 but it's a d - um - an antler, [antlers - ah.]
05;06D
           10b015 and then they run,
05;06D
           11-016
                    and then they - go in the water, [oh.] [also page 12]
05;06D
           13-017
                    and behind that log is frogs, [oh, really / aha.]
05;06D
           14bO18 there's some more frogs, [yeah /]
05;06D
           15-019
                    and there's another frog.
           15-020
05;06D
                         [What about the boy?] he goes in the water ... [uhhuh/]
           15-021
05;06D
                    and they look...
05;06D
           15-022
                    and watch.
           15-023
05;06D
                    oh there's one//...
           15-024
05;06D
                    {they can't get - } he can't get up.
```

2.2. Definition of "Clause" as Unit of Transcription²

Each clause should be transcribed on a new textline. We define a clause as any unit that contains a unified predicate. By unified, we mean a predicate that expresses a single situation (activity, event, state). Predicates include finite and nonfinite verbs, as well as predicate adjectives. In general, clauses will be comprised of a single verbal element; however, infinitives and participles which function as complements of modal or aspectual verbs are included with the matrix verb as single clauses, e.g., want to go, started walking. These matrix verbs plus modifiers should not be confused with utterances that clearly express two "situations," as in subordinate complement clauses, e.g., / thought that I would go. As illustration, each of the following phrases would be analyzed as a single clause with a unified predicate: running through the woods; taken by surprise; (in order) to help his friends; was angry.

In general, then, treat as a single clause those utterances that have two verbs but one subject, and treat as two separate clauses cases when each verb has a different subject, e.g., / want to go vs. / want you to go. Predicates that are clearly narrator-comments are kept with the matrix verb in a single predicate, e.g., / assume that the boy is happy; it appears that the dog is going to fall. These phrases constitute one clause.

2.2.1. Single Clause Examples

Single clause with two verbs and one subject: he stopped running; they had begun to search all over.

Single clause with different subjects (Narrator Comments): / think the boy misses the frog; it appears that the frog is happy.

² This section is taken directly from our coding manual (Berman, et al., 1986); therefore, "clause" is defined in terms of instructions to coders.

2.2.2. Two Clause Examples

Subordinate Complements — Same Subject NP:

he thought he could get the bees.

he said he would find the frog.

Subordinate Complements - Different Subject NP:

he decided that it was an owl.

he told the dog to be quiet.

2.2.3. Special Cases

Verbless Clauses: While a clause is defined by the presence of a "unified" predicate, a clause need not contain an overt verb. For example, copular sentences in Hebrew and Turkish which have zero-expression of the copula in the present tense are coded as a separate clause.

Ellipsis and Gapping: Treat as separate clauses strings in which the verb is lacking due to grammatical reductions such as gapping and where the verb semantics is fully recoverable from the text, or structures which can be analyzed as clauses where the copula has been deleted.

the boy looked in his boots and the dog in the jar.

with the frog not there the boy felt very upset.

he began searching for the frog and the dog too .

Crucial Plot Information: Verbless clauses that are critical to the story-line should be coded on a separate line.

and then he climbs over, and! little! baby frogs.

Do not code separately as a clause speech that would otherwise be considered part of another utterance if not for considerations of intonation or the

subject's orientation to the picture book (i.e., the page at which the subject is currently looking). (\$ indicates page turn in middle of utterance.)

```
[pg. 5] there were bees . $ [pg. 6] and a gopher .
```

Do not code speech strings that are not elaborated in adjacent utterances and that do not appear to be part of the storyline. Enclose these portions of text in curly brackets and omit from coding.

```
{ boy } [ mhm /] { dog. } [mhm /] { frog.} [
mhm / ] [looking at pg. 2]
{! bees!} [looking at pg. 5]
```

2.2.4. Center-Embedded Clauses/Discontinuous Constituents

In order to have a constant measure of story length in number of clauses, and to allow for potential coding of each clause separately, center-embedded relative clauses are enclosed in curly brackets { } on the original textline (i.e., not coded), displaced from their original location, and coded on a new line after the associated main clause. Indicate that the clause has been displaced from its original location by enclosing it in angle brackets \Leftrightarrow on the textline where it is coded.

```
the owl { who pushed the boy } flew away.
     < who pushed the boy >
    little Moritz { who I just call little Moritz } sits in front of his bed .
< who I just call little Moritz >
```

Some adverbial clauses may be separated from their associated main clause by an introductory adverbial phrase which sets the temporal anchor for the main clause, e.g., in the middle of the night, one day, at night. Because these adverbial phrases are syntactically associated with the main clause and not the subordinate adverbial clause, they should be enclosed in curly brackets { } on the original textline — i.e., not coded — displaced to the clause line containing the main clause, placed in angle brackets <> , and coded with that main clause.

```
{in the middle of the night }, after they had gone to sleep
< in the middle of the night > the frog escaped from the jar.
{ and after that } when they had gotten to the other side
< and after that > they saw a whole lot of little frogs.
```

:VA Subordinate clauses of other embedded phrases that do not have adverbial anchors are treated normally and coded in order of the surface predicates.

```
after they woke up
they realized
that the frog was gone .
while they were sleeping and the
moon was shining brightly the little
frog jumped out.
```

2.2.5. Additional Coding Conventions

Task Comments: Asides which are not part of the type of text under study in the frog stories, such as task-oriented questions to the interviewer or expressions that are used to engage the listener, are not included in the clause count and are not coded.

```
{I think we could be finished now . } {
what's that called / }

{ is that a gopher / }
{ should I turn the page now / }
{ ! look ! }
{ lookit what happened . }
{ see / }
{ I don't know. }
{ do you know what that is / }
{ isn't it/ }
{ right/ }
```

or parts of utterances which are formulaic with respect to the story-telling situation are not counted or coded.

```
{ once upon a time }
{ and they lived happily ever after }
{the end }
{ and that's all. }
```

Unintelligible Speech: Clauses or parts of clauses that contain a substantial portion of unintelligible speech should not be coded, especially if an accurate interpretation of the temporal quality of the clause or the predicate in general is jeopardized.

Reformulations/False Starts: The fullest version is coded in clauses containing reformulations and false starts. The repaired portion is enclosed in curly brackets { }.

```
\{\mbox{ and then he starts }\} ... then a gopher pops out of the hole,
```

{he - the dog } - the dog was barking at the deer.