Understanding Children with Language Problems

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Contents

Acknowledgements

Glossary of text conventions and symbols

Introduction

Part I Problems with words
1 What’s in a word? 13
2 The child’s road to words 17
3 Blocks on the road to words 33
4 Exploring the blockage 40
5 ‘Dant always day dings’: problems with phonology 66
6 ‘Stip’ or ‘step’ or ‘slip’ or what?: problems with lexical processing 88

Part II Grappling with verb structure
7 Translating events 113
8 Growing verb structures 127
9 Shortfalls with verbs 144
10 ‘Thing out. Tip in there’: problems with verb processing 163

Part III Missing function morphemes
11 Filling out sentences 183
12 ‘That one not working, see’: problems with auxiliary verb processing 206
Part IV  Hidden meanings, baffling meanings

13 The roots of meaning 227
14 ‘[æ] you don’t tell nobody this?’: strengths in pragmatic processing 243
15 ‘I can speak Chinese. But I can’t speak Chinese’: problems in pragmatic processing 251

Endpoint and springboard 262
Further reading 267
References 269
Index 279
1 What’s in a word?

Seven-year-old Steven struggles to name a microphone:
S: Oh this is tricky . . . when you on . . . it’s when you’re on . . . like on a concert . . . and you get this . . . micro . . . scope . . . no . . . like thing when you speak into it and it’s even louder. (From Hayman 1996)

Six-year-old Eamonn requests a favoured toy:
E: I want that . . . deepersiper.
SC: The what?
E: [jɔʊ] (= you know) the deeper . . . Where deedeepsiper? I dunno deedeepsiper is. Where’s the deepbersiper? The deepdeepsiper?

Eamonn’s search is for the deep-sea diver.

Children who have problems with language have problems with words. Typical descriptions of such children state that they are unable to understand words, find words, or say words, or that they omit words or use words in odd ways.

Such descriptions are no more than a starting-point for looking at their difficulties. To probe these further, we need to consider what it is the child can’t understand, find, say or put in the right place. This means knowing what words are. We can then consider what is involved in coming to understand, find, say and combine them, and what might stop a child from doing one or more of these things.

While it seems obvious that intact language users know words, it is by no means obvious what it is that they know. Once we go beyond the obvious to question what it is that we know, we find
that words are not simple things. Each word is a collection of rather special sorts of information.

Take the word ‘hair’. To know the word ‘hair’ is to have represented in your mind a connection between the following:

- **Phonological information**: the sound pattern of the word. In this case, a single syllable containing the sequence of sounds /hɛə/ (in accents where the final r is not pronounced).

- **Semantic information**: the meaning to which the sound pattern can refer. In the case of /hɛə/, this is the clump of stuff that grows on the human head or in varying quantities on other parts of human beings and on animals.

- **Syntactic information**: the position which the word may occupy in relation to other words. This information would include the fact that ‘hair’ may be preceded by the determiner ‘the’ and by adjectives such as ‘long’, and that it will occur in certain positions within the sentence such as before a verb (‘Hair grows’), following certain verbs (‘He cuts hair’) and so on.

Each of these pieces of information is abstract in the sense that it is picked out or abstracted from another level of information. The phonology of the word is the sound pattern, and not the sound signal which occurs when the word is uttered. Nor does it include every detail of that sound signal. For example, knowing the word ‘hair’ does not involve knowing the loudness with which it might be uttered. It does involve knowing the consonant–vowel sequence /hɛə/. This means picking out those features of the sound signal that differentiate it from other sequences of consonant and vowel such as /dɛə/ and /ʃɛə/ (dare and share). Similarly, the semantics of the word ‘hair’ does not include every detail of the thing it might refer to. Knowledge of the word does not include the number or shades or length or density of hairs on a particular head.

In summary, words are not concrete objects out there in the world. Their existence consists in a connection between phonological, semantic and syntactic information, and that information is picked out from the stream of information we receive.
Different languages, of course, have different words. Most obviously, languages differ in the phonological form which they attach to a meaning. Part of learning a new language is learning the phonological forms of words. But languages also differ in the exact semantics which they attach to phonological forms. For example, the phonological form hair in English refers to the clump of stuff on the head and elsewhere on the body. In contrast, French uses a distinct phonological form for hair on the head (cheveux) and hair on other parts of the body (poil).

Languages also differ in the syntactic properties they attach to particular phonological–semantic pairings. In English, ‘hair’ when referring to stuff on the head is not used with plural endings or with a plural verb: ‘Mona Lisa’s hair is long’ is fine, but ‘Mona Lisa’s hairs are long’ is not – at least not if the intended reference is to hair on the head! In French, the converse is true, so that the French version of ‘Mona Lisa’s hair is long’ would make ‘hair’ plural, and in fact mark the verb (‘are’) and the adjective (‘long’) as plural.

Each word, then, is a phonological–semantic–syntactic complex. To know words is to have stored such complexes in our minds, in what is termed our mental vocabulary or lexicon. But knowing words involves more than knowing each such complex. Our mental vocabulary is not an undifferentiated collection of such complexes. Words share properties with other words. They may be phonologically similar to each other. Hair, for example, is phonologically similar to fare and chair and bear in sharing the rhyme /ɛə/ (the variable spelling of that rhyme being irrelevant). It is phonologically similar to house in sharing the initial consonant /h/. It is phonologically identical to hare, though spelled differently. Words such as hair and hare, which are phonologically identical but semantically distinct, are known as homophones.

**Phonological relationships between hair and other words**

<table>
<thead>
<tr>
<th>Homophone</th>
<th>hare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shared rhyme</td>
<td>fare, chair, bear . . .</td>
</tr>
<tr>
<td>Shared initial consonant</td>
<td>house, hat, hen . . .</td>
</tr>
</tbody>
</table>

Semantically, ‘hair’ is most similar to words which refer to parts
of the body such as ‘skin’ and ‘nail’. It has more in common with words referring to concrete *substances* such as ‘wire’ or ‘soil’ or ‘bread’ than to concrete *entities* such as ‘table’ or ‘book’. It has even less in common with words referring to abstract things such as ‘idea’ or ‘message’, or to places such as ‘library’ or ‘park’, or to states such as ‘joy’ or ‘poverty’, or to events such as ‘revolution’ or ‘accident’.

Syntactically, though, ‘hair’ shares properties with all these words, which belong to the category *noun*. This means they may be preceded by a *determiner* and *adjective*:

<table>
<thead>
<tr>
<th>Det</th>
<th>Adjective</th>
<th>Noun</th>
</tr>
</thead>
<tbody>
<tr>
<td>the</td>
<td>famous</td>
<td>skin/nail/wire/soil/bread</td>
</tr>
<tr>
<td>weird</td>
<td></td>
<td>table/book</td>
</tr>
<tr>
<td>new</td>
<td></td>
<td>idea/message</td>
</tr>
<tr>
<td></td>
<td></td>
<td>library/park</td>
</tr>
<tr>
<td></td>
<td></td>
<td>joy/poverty</td>
</tr>
<tr>
<td></td>
<td></td>
<td>revolution/accident</td>
</tr>
</tbody>
</table>

But of all the above nouns, ‘hair’ has most in common with ‘skin’, ‘soil’ and ‘bread’, which are distinct from other nouns in certain respects. These nouns may, for example, occur without a determiner where other nouns may not:

- Hair should be kept clean
- Skin should be kept clean
- *Table should be kept clean
- *Library should be kept clean

Nouns like ‘hair’ (as on the head) form a subcategory known as *mass nouns*. They are distinguished from other nouns, known as *count nouns*, in a number of ways, one being the possibility of occurring without a determiner.

Looking at just the word ‘hair’ illustrates amply the idea that a word consists of connections between phonological, semantic and syntactic information, and is connected to other words by virtue of sharing some of that information.