

The level below world knowledge

### **1. Semantics**

is defined as the ability to represent knowledge generally in structured meaningful elements, where each element has a precise role and function

- invitation to a party expressed as WHEN: 07/12/2008 @ 7PM; WHERE: 135 W 11TH STREET; OCCASION: STEVE'S BIRTHDAY is a formal semantic representation whose elements WHEN, WHERE, and OCCASION have well-defined meanings for all of us

### **2. syntax**

expresses all the rules that govern putting words together to represent the meaning expressed by semantics

### **3. *lexicon***

is the knowledge of the words and their meaning

### **4. *morphology***

is the knowledge of how words change their spoken or written form to perform slightly different roles.

- For instance, in English, if you see more than one horse, you say "horses," and if you say "walked" rather than "walk," you're referring to something that happened in the past.

### **5. *phonetics***

is the knowledge of phonemes and how words are built as sequences of them.

### **6. *acoustics***

*is the knowledge of what phonemes sound like and how to produce them by moving your vocal organs.*