Programming lunguage have

SYNTAX describe how the program 'looks'

SEMANTICS describe the meaning'

Quick introduction to Syntax

The cat drank the milk.

Words "The" "cat" "drank" "the" milk" "."

(lexical varies)

Categories/ DEFART NOUN VERB DEFART NOUN DOT

Kinds

Sentence SUBJECT VERB OBJECT DOT

components

SENTENCE

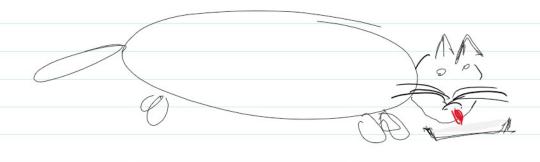
1. identify words

z. identify kinds / cate gories of words analysis

s. identify sentence components

syntax

u. identify sentence

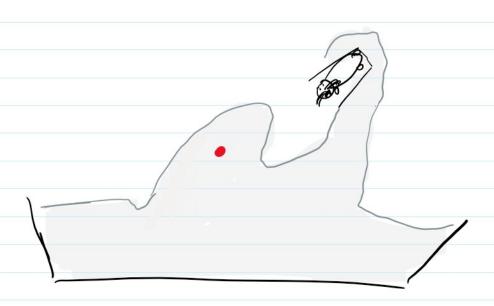


The milk drank the cat.

DEFART NOUN VERB DEFART NOUN DOT

SUBJECT VERB OBJECT DOT

SENTENCE



SYNTAX DOES NOT CARE A BOUT MEANING!

Syntax of programming languages

Alphabet a finite set of symbols

Example (a, b, c, !, &)

Example. Alphabet of the Clanguage =

.... (a, b, --,2, A, --+,0,--,1, 1., 4, >, =, - - } String A string over an alphabet is a finite sequence of symbols from the alphabet. Corder natters

Example. abc! is a string over (a, b, c,d, x,!) abede is not actring over {a,b,c,d,&,!}

Token A to Ken (corresponds to categorias or Kinds of words) is a set of strings We can think of the token as the name or label of the set.