

# Riadiace prvokiedy jazyka prolog

- usporiadanie klauzúl a cieľov v klauzuleid
- rezunzia
- späťchod
  - $\text{fail}$
  - $\text{! (ret)}$
- $\text{retract}$  - viac klauzúl pre jeden predikát
- $\text{repeat}$   $\text{repeat} \cdot$ 
  - $\text{repeat} :$  -  $\text{repeat}$ .
- $\text{not (Goal)}$
- $\text{call (Goal)}$

Goal.



# CYKWS

- recursion

- Comparative - split - product

tail recursion

tail

recursion

repeat

(tail - split)

product - recursive !

# REZ

- pravidla (klauzury) et. sa navzajom vylucuju
- potvrdenie voly pravidla
- ukončenie generovania a testovania

$$\begin{array}{l} p := a \wedge b \\ p := c \end{array}$$

$$p := c$$

$$p := a \wedge b$$

$$p \Leftrightarrow (a \& b) \forall c$$

$$p \Leftrightarrow (a \& b) \vee (\neg a \& c)$$

$$p \Leftrightarrow c \vee (a \& b)$$

NEGACIA predpoved wamrekitu sveda

muž (peter).

~~muž (bratran)~~.

žena (X) :- not (muž (X)).

$\forall X$   
 $\sim \text{muž}(X) \Rightarrow \text{žena}(X)$

? žena (janka).

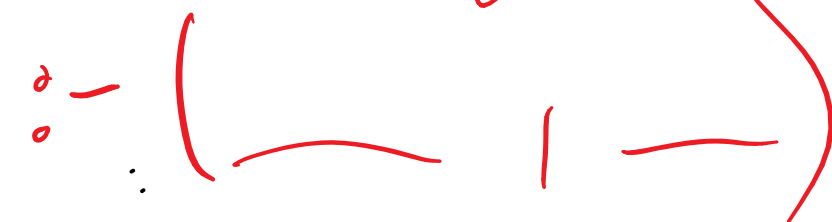
yes

? - žena (X).

false

not (Goal) :- call (Goal),  
fail.

not (-).



read\_term (Term), Text, (Podm) :-

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write (Text), head (Term),

~~call (Podm)~~ <sup>!</sup> <sub>o o</sub>

head\_term (Term, Text, Podm) :-

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head\_term (Term, Text, Podm).

# OPERATOR

function (Arg 1, Arg 2, ...)

$$\frac{(3 + 2) - 1}{+ (3, - (2, 1))}$$

$$+ (3, - (2, 1))$$

$$(3 + (2) * 1)$$

$$+ 13, *(2, 1)$$

associativity

typ

kg(5)

5 kg

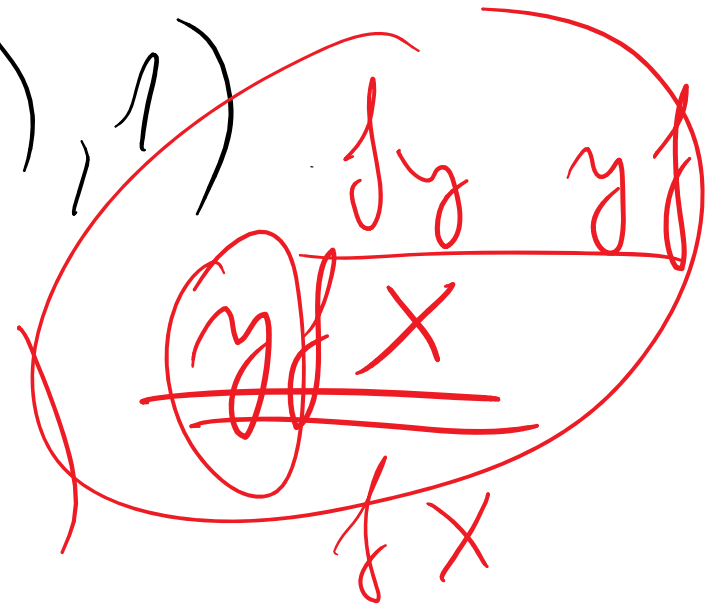
- postfix  
prefix  
infix

yy yf  
fy  
x fy

~~\*~~ (+ (3, 2), 1)

1.. 1200

$$(3 + (2) - 1)$$



not(not( ))



1 - op (Priority, Typ a account, Area)

2 - op (800, yfx, 'a').

X a y a(x, y)

(HH (Mn) SS)

(HH (np, SS))

functor ( ? Term, ? Functor, ? Arith )

arg ( + W, + Term, - Arith )

Structure = List

Structure

[ functor, arg1, arg2, ... ]