

Is a complete reasoning system for
CNF

Horn Clauses & Forward & Backward
chaining

A Horn clause is one w/ only one unnegated
literal.

Ex $\{A, \bar{B}, \bar{C}\}$

Often write as

$$A \leftarrow B, C$$

or in Prolog syntax

$$A :- \underbrace{B}_{\text{head}}, \underbrace{C}_{\text{tail}}$$

How backward chaining algorithm works.

Have a set of clauses:

no
tail
= fact

① $A.$

② $B :- C, E.$

③ $C :- A.$

④ $B :- A.$

Have a goal: