

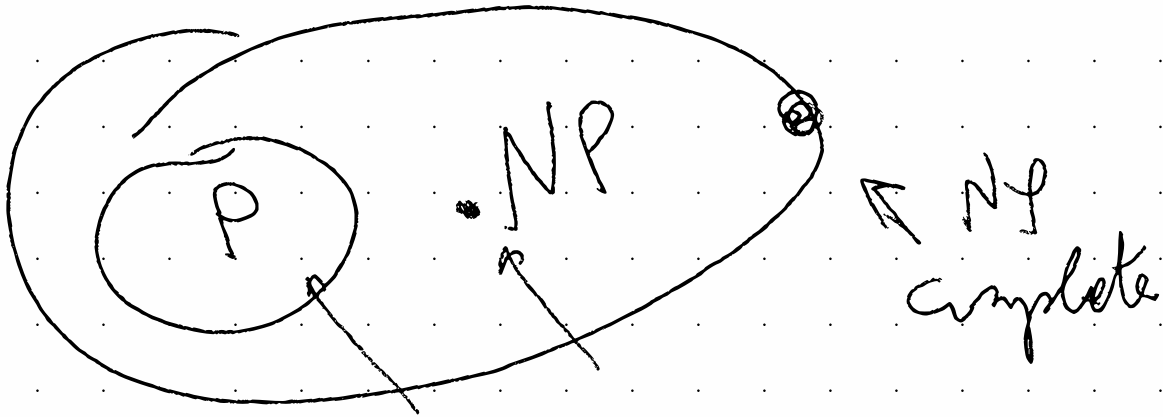
class P ^{the} \forall all languages $\exists TM$
decides ⁱⁿ language in
polynomial time
(quickly)

CSC 317, CSC 220 ---

NP, verified quickly

$$x \in L \iff \exists w \quad V(x, w)$$

thank you TAM Path p'gm



Boscher formula

$$\begin{matrix} x & z & f \\ y & : & T \end{matrix}$$

$$f(x, y, z, \dots, t)$$

$$= \vee \wedge \neg$$

$$\phi = (\bar{x} \wedge \bar{y}) \vee (x \wedge \bar{z}) \checkmark$$

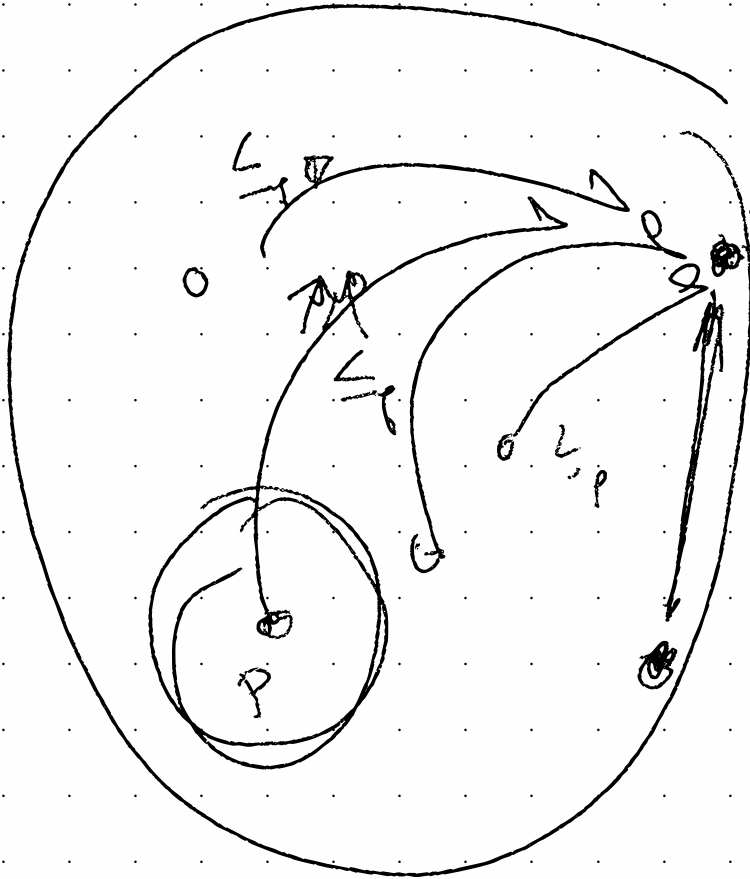
$$X \wedge \bar{X}$$

not satisfiable

↑ contradiction

$$X \vee \bar{X}$$

← tautology



M

Nf- complete

reductio

$M \supseteq P \ni z \ni z_p \ni z_p$