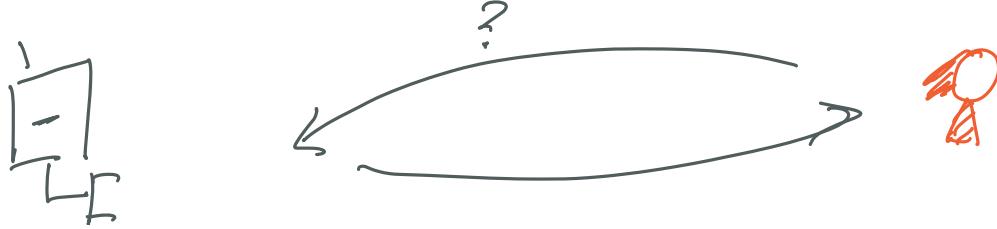
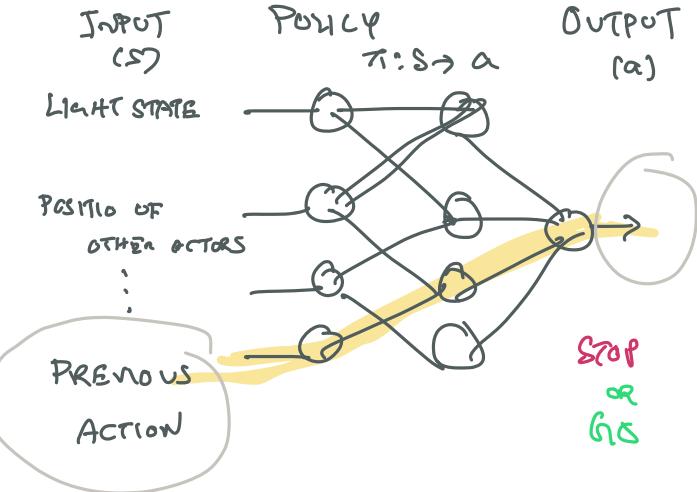
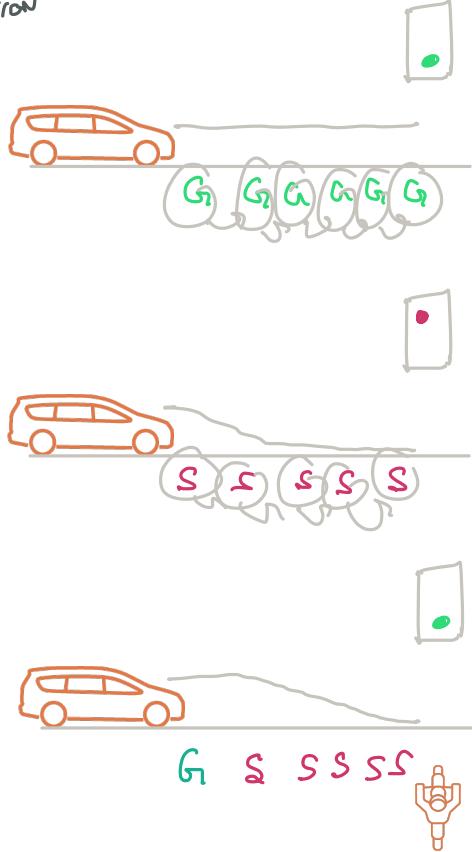


VARIOUS WAYS TO GIVE ROBOT INPUT

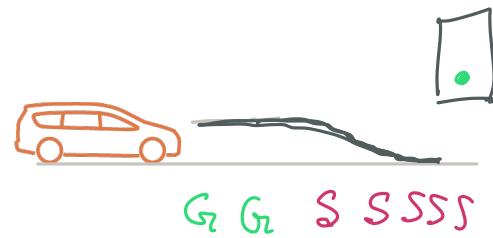


- SPECIFIC COST / CONSTRAINTS : (" Safety constraint program)
- DEMONSTRATIONS OF HOW YOU DOING THE TASK
 - ↳ TEACHING THE ROBOT
- PREFERENCES → (ASK HUMAN TO CHOOSE FROM OPTIONS)
- INTERVENTIONS

HUMAN
PERCEPTION



99%.

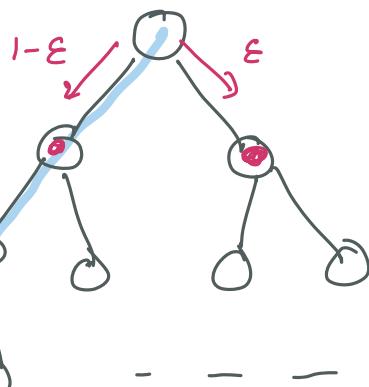


PROOF FOR BC

$$J(\pi) - J(\pi^*) \leq O(\epsilon T^2)$$

$$\boxed{\epsilon \times \left(1 + 1 + 1 + 1 + 1 + \dots \right)}$$

T



$$+ (1-\epsilon) \times \left(0 + \epsilon \left(1 + 1 + 1 + \dots \right) \right)$$

$T-1$

$$+ (1-\epsilon) (0 + \dots)$$

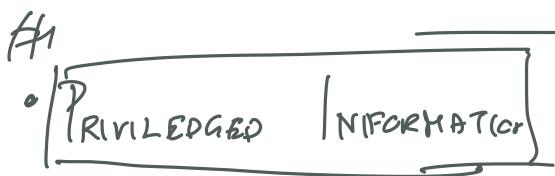
$$= \varepsilon T + (1-\varepsilon) \varepsilon (T-1) + (1-\varepsilon)^2 \cdot \varepsilon \cdot (T-2) + \dots$$

$$= \varepsilon \left(T + (1-\varepsilon)(T-1) + (1-\varepsilon)^2(T-2) + \dots \right)$$

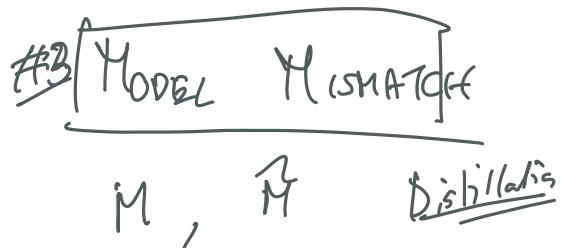
$$\leq \varepsilon (T + (T-1) + (T-2) + \dots - 1)$$

$$\leq \varepsilon \frac{T \cdot (T+1)}{2} \approx O(\varepsilon T^2)$$

Non-Realizable Expert



$$\pi^*(s, \emptyset) \rightarrow a$$



M, \tilde{M} Distillation