

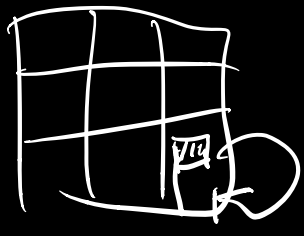
$$s_1, a_1, \boxed{r_1}, s_2, a_2, \boxed{r_2}, s_3, a_3, \boxed{r_3}, \dots$$

Objective (return): $\mathbb{E} \left[\sum_{t=1}^{\infty} \gamma^{t-1} r_t \right]$

$r_1 + \gamma r_2 + \gamma^2 r_3 + \gamma^3 r_4 + \dots$

infinite horizon.
discounted

$r \rightarrow "R"$
 $\gamma \rightarrow \text{gamma}$



$$\forall a, P(\underline{\text{state}} | \underline{\text{state}}, \underline{a}) = 1.$$

$$R(\underline{\text{state}}, a) = 0.$$

0 reward

$s_1, a_1, r_1, s_2, a_2, r_2, \dots$

