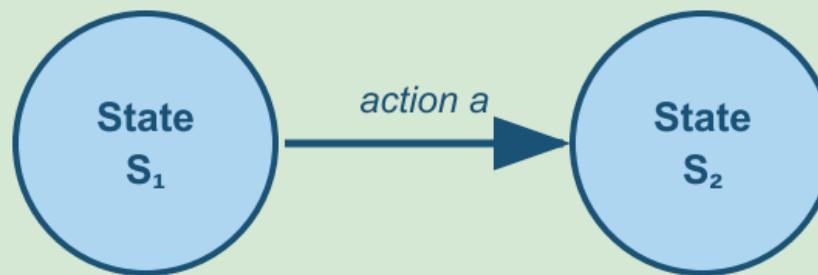


Deterministic



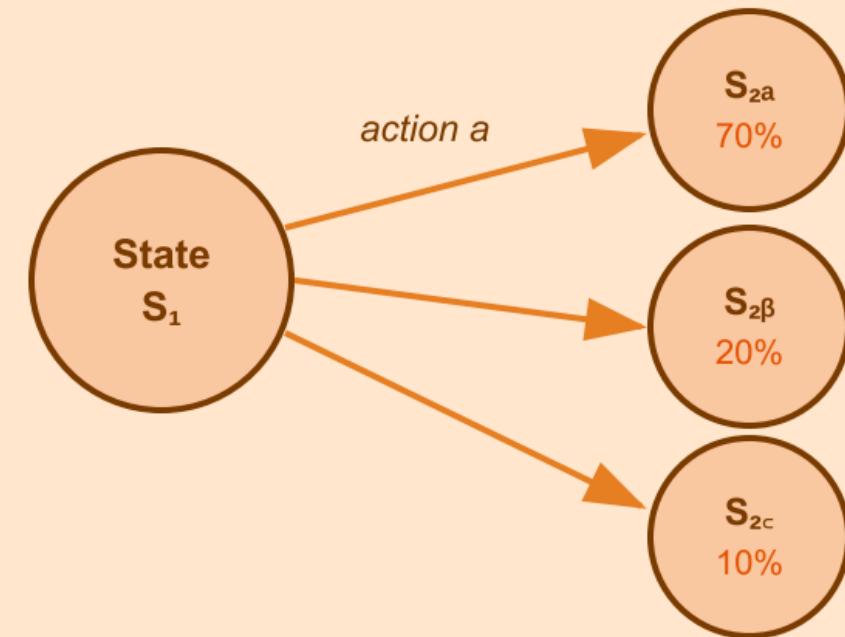
Same action → **always** same next state



Fully predictable

$$S_2 = f(S_1, a) \text{ — one unique outcome}$$

Stochastic



Same action → **uncertain** next state

$$P(S_2 | S_1, a) \text{ — probability distribution}$$