

function MODEL-BASED-REFLEX-AGENT(*percept*) **returns** an action

persistent: *state*, the agent's current conception of the world state

transition_model, a description of how the next state depends on
the current state and action

sensor_model, a description of how the current world state is reflected
in the agent's percepts

rules, a set of condition–action rules

action, the most recent action, initially none

state \leftarrow UPDATE-STATE(*state*, *action*, *percept*, *transition_model*, *sensor_model*)

rule \leftarrow RULE-MATCH(*state*, *rules*)

action \leftarrow *rule*.ACTION

return *action*