

AI Planning [week 9](#)

Requirements for a planning problem: initial state and goal state; actions, applied to change from one state to another; preconditions, the previous state before an action is applied; effect, the new state after an action is applied.

In a planning problem, you are given the initial and goal state and are asked to find a sequence of actions leading from the initial state to the goal state. You can create a graph of all possible sequences which can be searched breadth first, depth first, or with a heuristic search.

Sometimes, actions are also associated with parameters (objects that actions are performed on).

AI Planning [week 10](#)

Heuristic functions evaluate the distance to the goal state and are used to search the shortest path to a goal.