

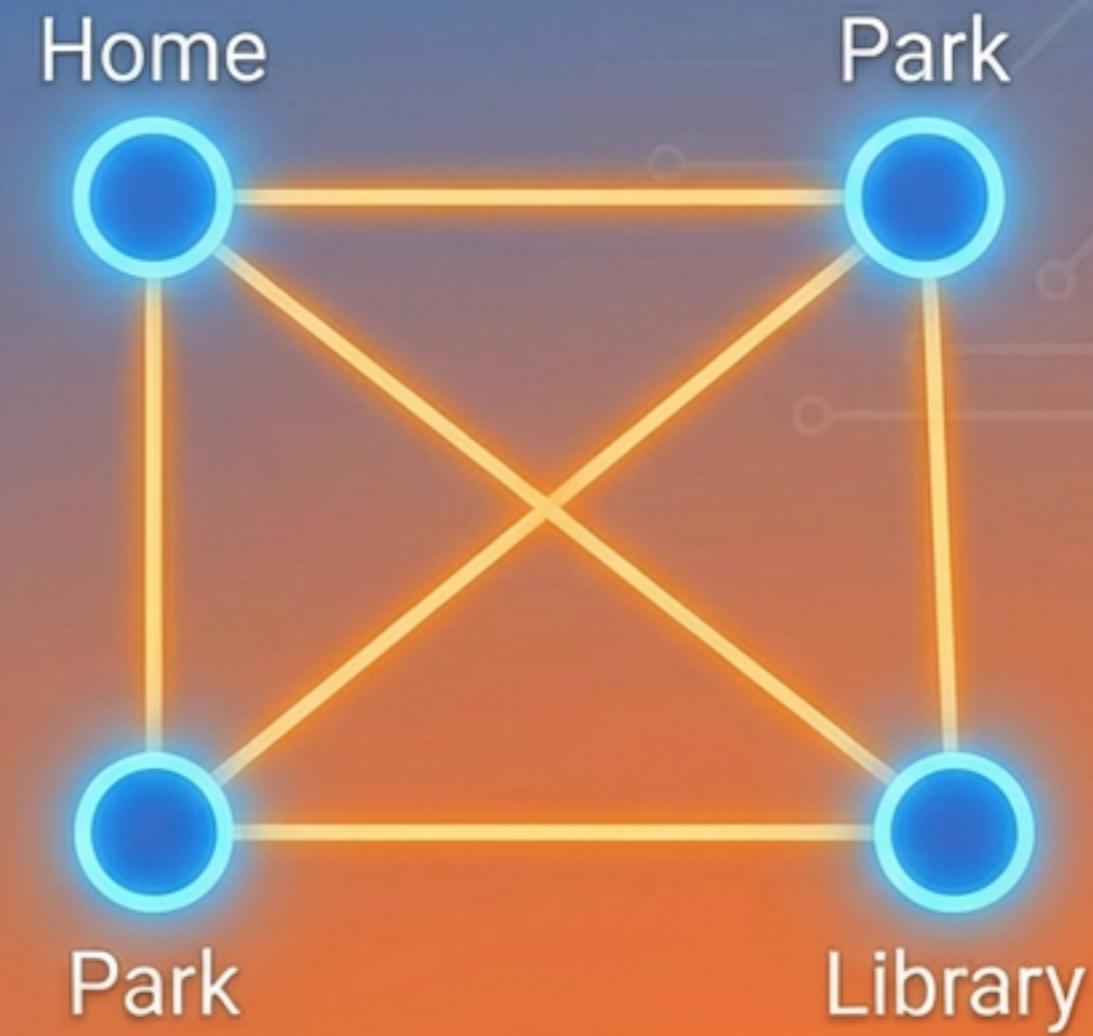
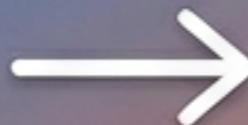
INTELLIGENT SEARCH: FINDING THE SMARTEST PATH

An Introduction to A* Algorithm



Presented by: Parsa Salamatipour

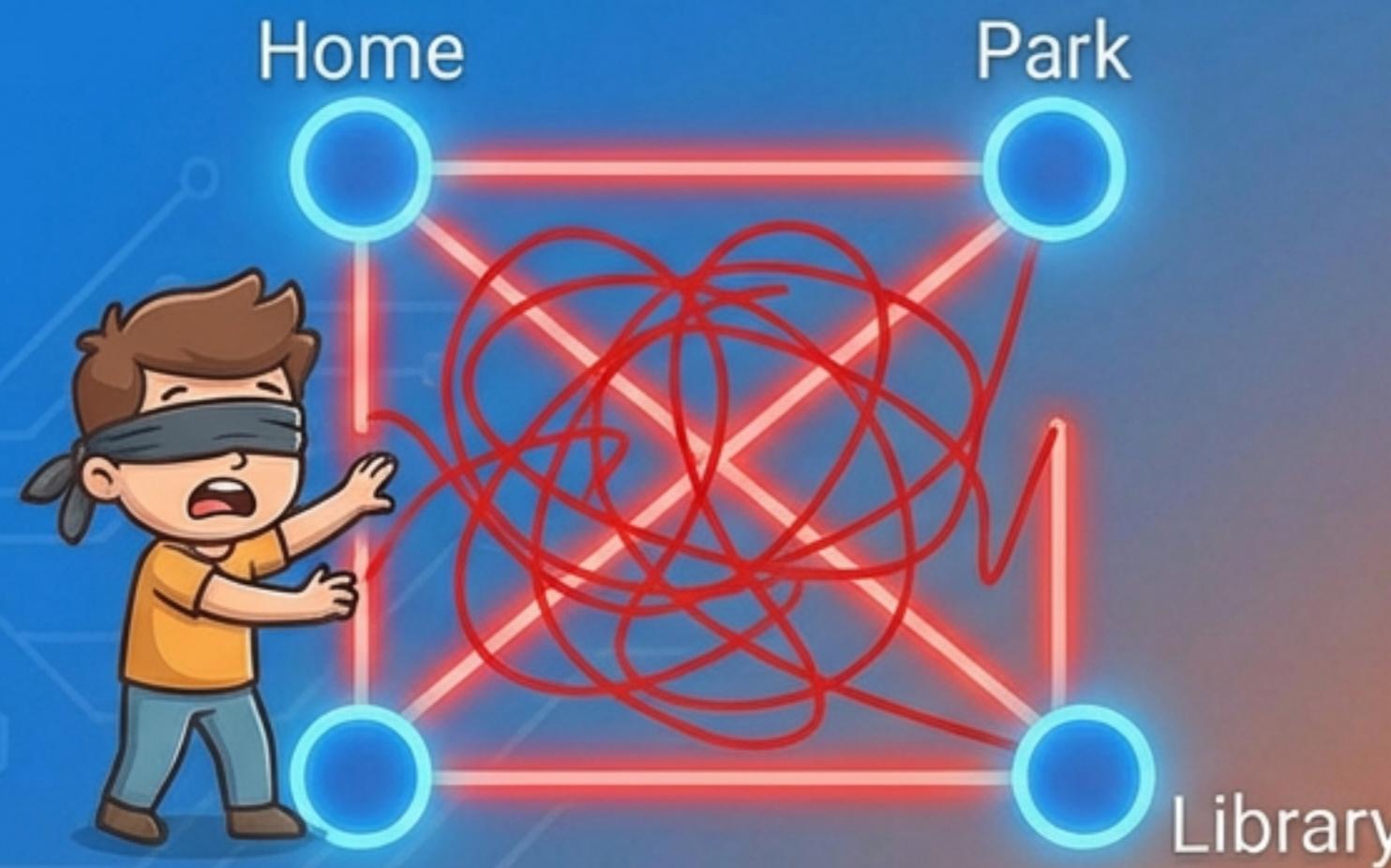
FROM A TOWN TO A GRAPH



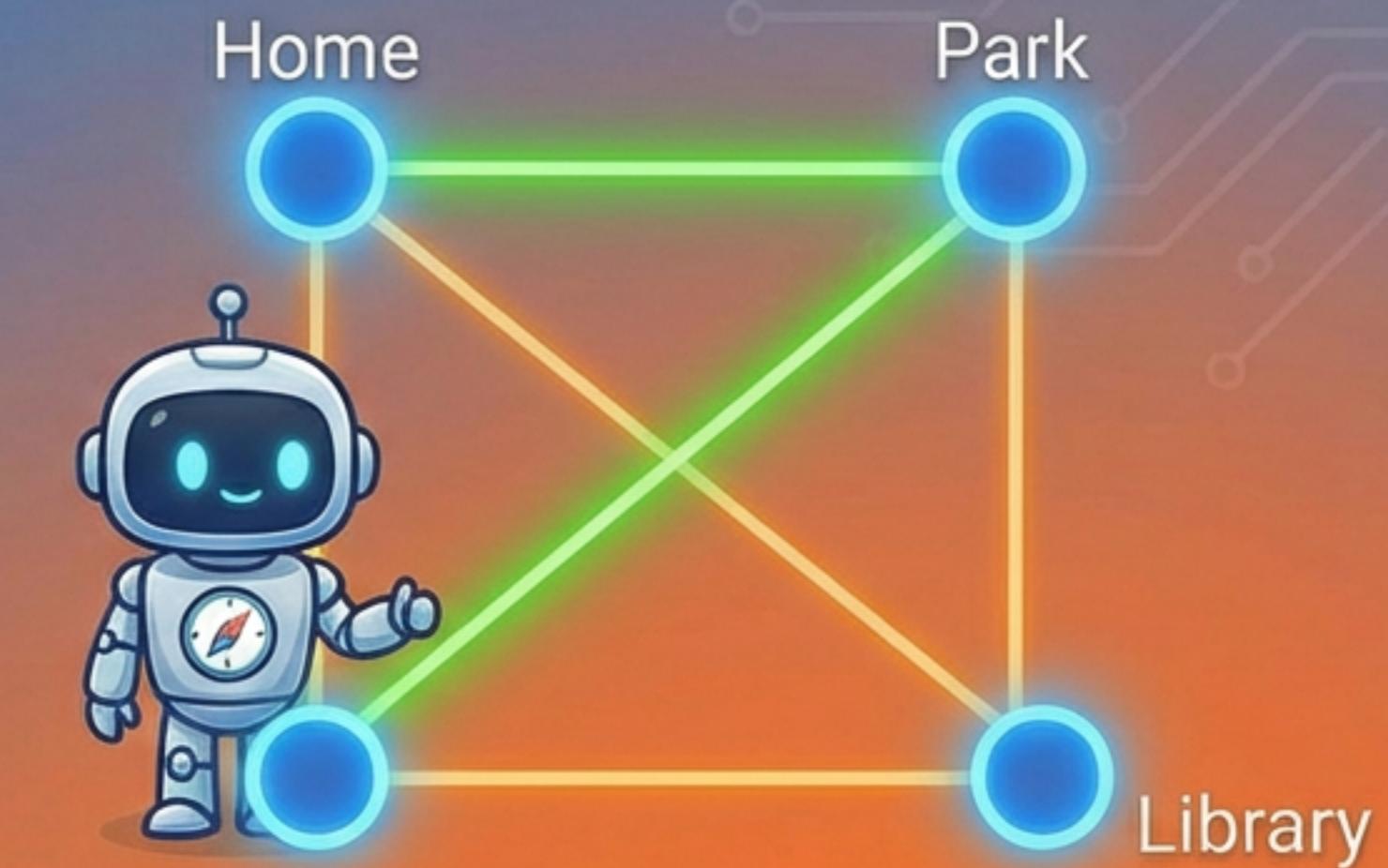
A graph is just a map of dots (nodes) and lines (edges).

TWO WAYS TO SEARCH

BLIND SEARCH

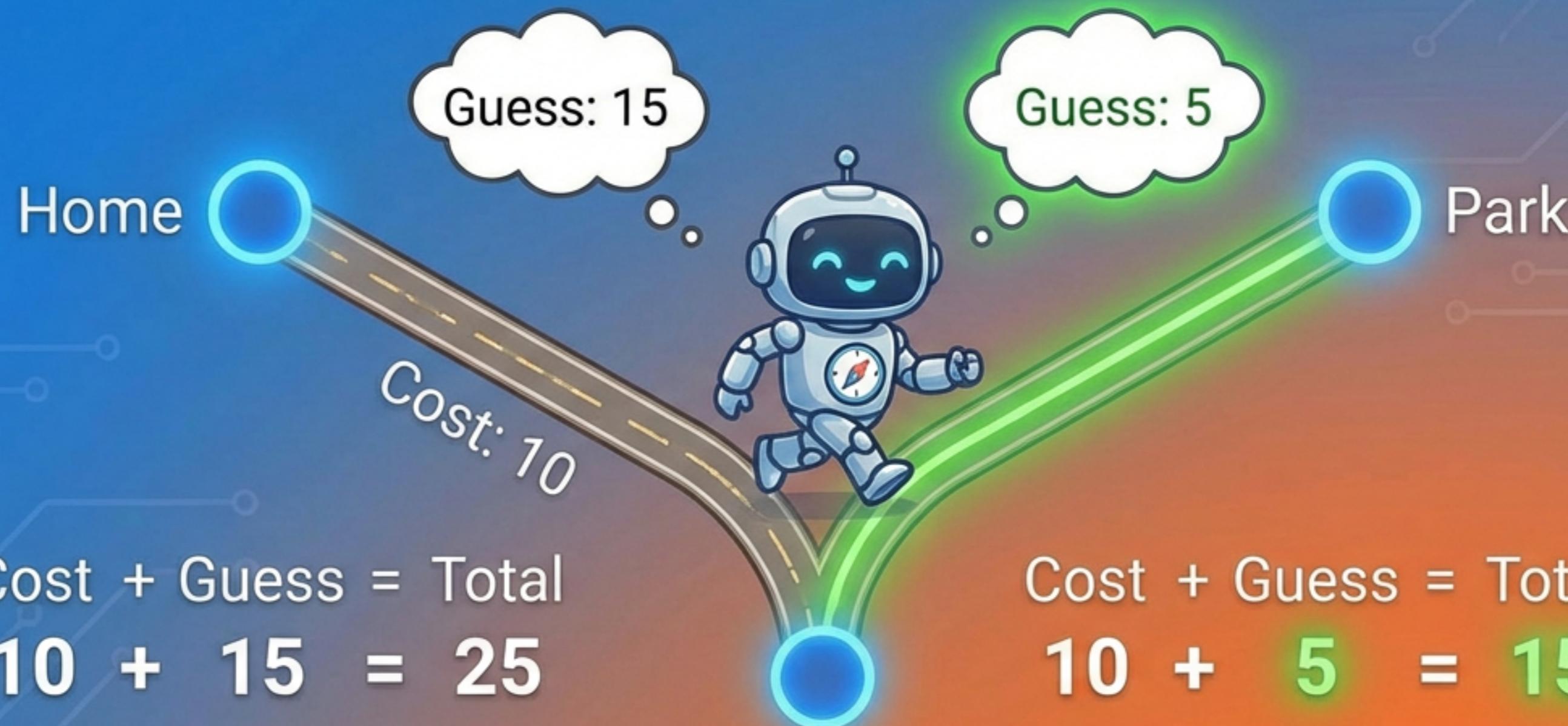


SMART SEARCH (A*)



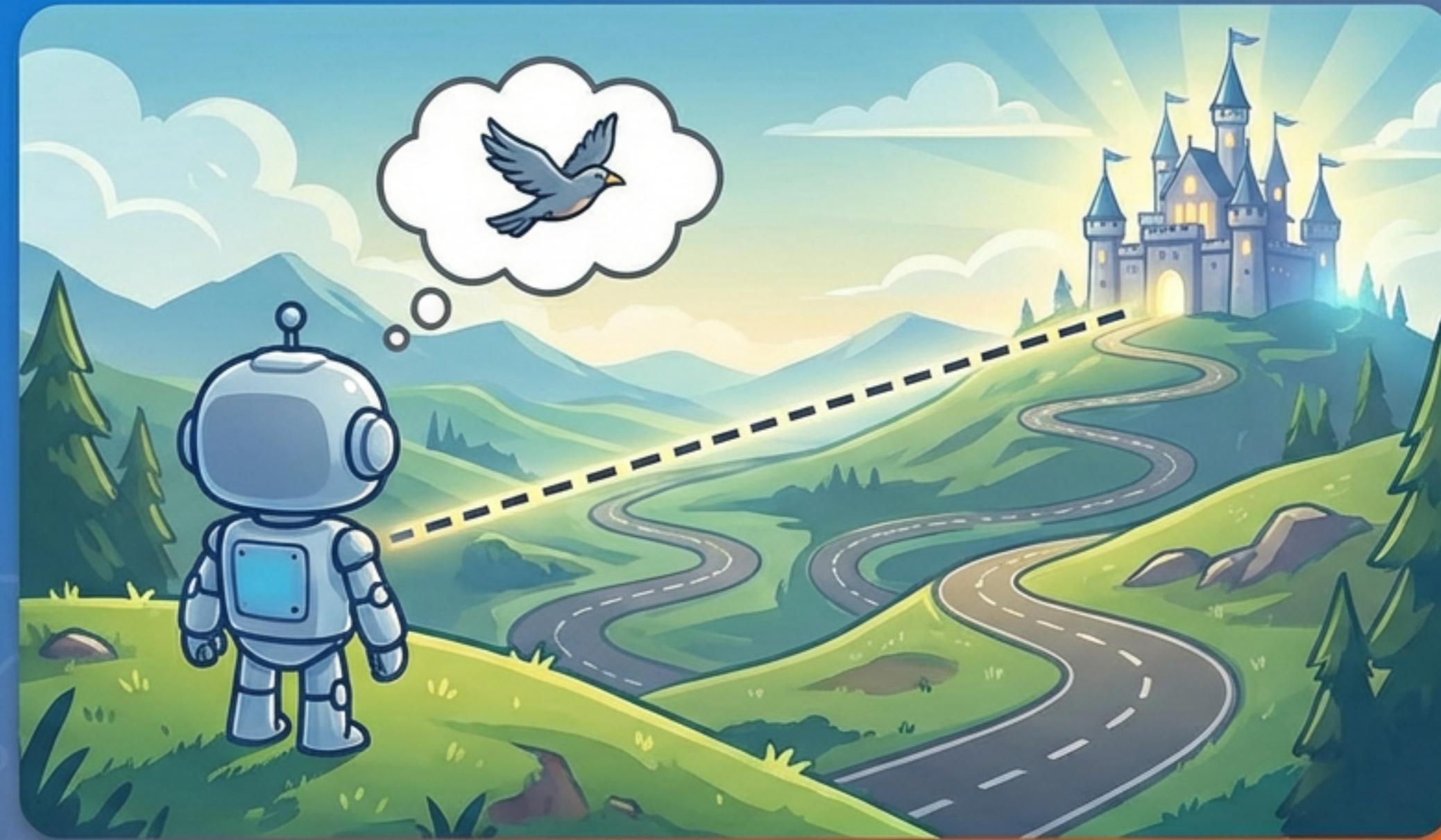
You can search blindly... or you can search smart.

THE A* SECRET SAUCE



A* picks the path with the best score!
(Cost to get here + Best guess to the end)

WHAT'S A 'GUESS'? (HEURISTIC)



The “guess” is just the distance as the crow flies. Simple!