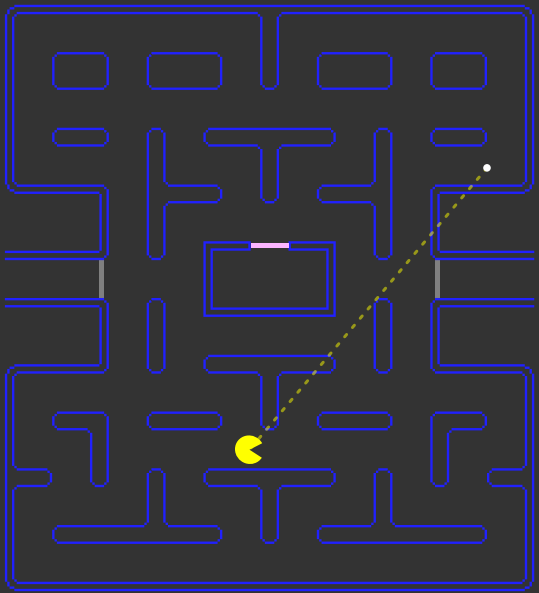

This brings us to the idea of an Objective function

J(path) = sum of costs

What is a simple cost we can minimize?

J(path) = total distance traveled

Realistically, we can't evaluate every path...
but we can rule out bad ones

How can we guess how (un)favorable an intermediate position is?

We can use a heuristic:

H(position) = Euclidean distance to the goal