

## The Maze

Quantum computers can be used to solve search problems, such as finding the correct path in a maze, faster than classical computers can. However, contrary to popular thought, they do not do this by trying every possible path at the same time. This would be a much more powerful device. What we can do however is put different paths in superposition and then compute with that superposition. This gives quantum computers a considerable, but not magical advantage over classical computers.