

Computer Science Extended

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Abstract

Besides social media and networking sites, one of the more popular ways that this demand is met is through the constant updates and releases of new video games. However, in more recent times video games have not only become a form of entertainment but they are also a method through which many earn their living, whether it is their development or through larger esports tournaments where players can earn potentially millions. To put this in perspective in 2017 DOTA 2 prize pool totalled \$24.6 million. When looking at this industry one of the many struggles that the very first developers would have gone through is how to create an efficient movement system without compromising the user experience. This is especially important in top-down games like DOTA 2 or League of Legends because of the nature of their movement systems and how the players will use simple mouse clicks to administer the movement commands for their in-game characters. In this essay, I will be exploring Dijkstra's algorithm and its variant the A* search algorithm, both of which are very popular algorithms that are used to calculate movement within these games, but before we take a look at the algorithms themselves we will have to familiarise ourselves with some key terminology.

The Grid Based Environment

When referring to graphs in pathfinding there are two types of graphs a sparse graph and a more grid-based environment. The sparse graph will involve a series of nodes which are points, and then the edges which will connect their nodes to show traversable or walkable paths. Whereas in a grid-based environment the nodes are interconnected and there may be some nodes which cannot be traversed. Refer to the diagram below: In the diagrams above the green node represents the current position on the object. In the sparse graph, we are limited to the paths we can take by the predetermined edges whereas in the grid-based environment all the squares are their own nodes and it is possible to move vertically, horizontally or diagonally. The grey squares are other entities and so we cannot traverse those nodes. In essence, in the grid-based environment, assuming there are no non-traversable nodes, each node is connected to eight other nodes i.e. all its neighbours. For the purposes of this investigation, I will be using the grid-based environment for all because in games characters can usually move in any given direction as long as there are no non-traversable nodes in the vicinity.

Distances

If we were moving from any given node vertically or horizontally this would equate to a particular distance. We will name this particular distance 1 unit. However, the distance to travel from one node to another diagonally is not the same distance. This is because we have to travel a greater distance to get to the node. To work out what this distance actually is we can use a simple piece of maths known as the Pythagorean theorem. This theorem states that given a right angle triangle the length of the hypotenuse (the side opposite the right angle) is equal to the sum of the squared...

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Table of Contents Science Extended Essay Examples

1. Understanding the eBook Science Extended Essay Examples
 - The Rise of Digital Reading Science Extended Essay Examples
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Extended Essay Examples
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Extended Essay Examples
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Extended Essay Examples
 - Personalized Recommendations
 - Science Extended Essay Examples User Reviews and Ratings
 - Science Extended Essay Examples and Bestseller Lists
5. Accessing Science Extended Essay Examples Free and Paid eBooks

- Science Extended Essay Examples Public Domain eBooks
 - Science Extended Essay Examples eBook Subscription Services
 - Science Extended Essay Examples Budget-Friendly Options
6. Navigating Science Extended Essay Examples eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Extended Essay Examples Compatibility with Devices
 - Science Extended Essay Examples Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Extended Essay Examples
 - Highlighting and Note-Taking Science Extended Essay Examples
 - Interactive Elements Science Extended Essay Examples
 8. Staying Engaged with Science Extended Essay Examples
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Extended Essay Examples
 9. Balancing eBooks and Physical Books Science Extended Essay Examples
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Extended Essay Examples
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Science Extended Essay Examples
 - Setting Reading Goals Science Extended Essay Examples
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Science Extended Essay Examples
 - Fact-Checking eBook Content of Science Extended Essay Examples
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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