

Computer Science Extended

12 pages | 2998 words

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 and 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 ie. 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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considering the qualification The Scientific Revolution in National Context Roy Porter,1992-09-25 The scientific revolution of the sixteenth and seventeenth century continues to command attention in historical debate Controversy still rages about the extent to which it was essentially a revolution of the mind or how far it must also be explained by wider considerations In this volume leading scholars of early modern science argue the importance of specifically national contexts for understanding the transformation in natural philosophy between Copernicus and Newton Distinct political religious cultural and linguistic formations shaped scientific interests and concerns differently in each European state and explain different levels of scientific intensity Questions of institutional development and of the transmission of scientific ideas are also addressed The emphasis upon national determinants makes this volume an interesting contribution to the study of the Scientific Revolution **The Oxford Handbook of Philosophy in Early Modern Europe** Desmond M. Clarke,Catherine Wilson,2013-05-23 In this Handbook twenty six leading scholars survey the development of philosophy between the middle of the sixteenth century and the early eighteenth century The five parts of the book cover metaphysics and natural philosophy the mind the passions and aesthetics epistemology logic mathematics and language ethics and political philosophy and religion The period between the publication of Copernicus s *De Revolutionibus* and Berkeley s reflections on Newton and Locke saw one of the most fundamental changes in the history of our way of thinking about the universe This radical transformation of worldview was partly a response to what we now call the Scientific Revolution it was equally a reflection of political changes that were no less fundamental which included the establishment of nation states and some of the first attempts to formulate a theory of international rights and justice Finally the Reformation and its aftermath undermined the apparent unity of the Christian church in Europe and challenged both religious beliefs that had been accepted for centuries and the interpretation of the Bible on which they had been based The Handbook surveys a number of the most important developments in the philosophy of the period as these are expounded both in texts that have since become very familiar and in other philosophical texts that are undeservedly less well known It also reaches beyond the philosophy to make evident the fluidity of the boundary with science and to consider the impact on philosophy of historical and political events explorations revolutions and reforms inventions and discoveries Thus it not only offers a guide to the most important areas of recent research but also offers some new questions for historians of philosophy to pursue and to have indicated areas that are ripe for further exploration *Rethinking Social Inquiry* Henry E. Brady,David Collier,2010-09-16 With innovative new chapters on process tracing regression analysis and natural experiments the second edition of *Rethinking Social Inquiry* further extends the reach of this path breaking book The original debate with King Keohane and Verba _now updated_ remains central to the volume and the new material illuminates evolving discussions of essential methodological tools Thus process tracing is often invoked as fundamental to qualitative analysis but is rarely applied with precision Pitfalls of regression analysis are sometimes noted but often are inadequately examined And the complex assumptions and trade offs of natural experiments

are poorly understood The second edition extends the methodological horizon through exploring these critical tools A distinctive feature of this edition is the online placement of four chapters from the prior edition all focused on the dialogue with King Keohane and Verba

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The Saturday Review of Politics, Literature, Science and Art, 1873

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Science in the New Age David J. Hess, 1993 In Science in the New Age David Hess explores ideologies of the paranormal in the United States He offers a map of the labyrinth of views put forward by parapsychologists and skeptical debunkers spirit channelers and crystal healers Hollywood poltergeist scripts and prophets of the New Age Adopting a cultural perspective Hess moves beyond the question of who is right or wrong to the cultural politics of how each group constructs its own boundaries of true and false knowledge Hess begins by looking at each group's unique version of knowledge science and religion and at its story about the other groups Comparing the various discourses texts writers and groups as cultures he shows how skeptics parapsychologists and New Agers may disagree vehemently with each other but end up sharing many rhetorical strategies metaphors models values and cultural categories Furthermore he argues their shared paraculture has a great deal in common with the larger culture of the United States The dialogue on the paranormal Hess concludes has as much to do with gender power and cultural values as it does with spirits extrasensory perception and crystal healing

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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 a 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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