

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 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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Introducing the IB Diploma Programme Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools

The International Baccalaureate Diploma Programme Tim Pound, 2006-05-02 Introducing a balanced look at the experience of implementing and teaching the increasingly respected qualification the International Baccalaureate this book is a rich resource for all teachers school leaders and managers involved with or considering the qualification

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structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts

Science Teaching in Schools Great Britain: Parliament: House of Lords: Science and Technology Committee,2006-11-05 The Committee's report examines science and mathematics teaching in secondary schools in England focusing on the following issues the take up of science and mathematics at GCSE and A level the provision of careers advice to students problems in the recruitment and retention of teachers the quality of teaching methods and the role of continuing professional development The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14-19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools

Essays on Hayek Fritz Machlup,2013-10-16 Varying according to the scope of Hayek's contributions the papers in this volume include among others An affirmation of the relevance of Hayek's work A survey of his contribution to knowledge An appraisal of Hayek's innovative work on the methodology of the social sciences A discussion of Hayek's achievements as scholar and mentor The contributors are Fritz Machlup Geroge Roche Arthur Shenfield Max Hartwell William Buckley Gottfried Dietze Shirley Letwin

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

The Independent Schools Guide 2011-2012 Gabbittas,2011-11-03 All parents want their child to be happy and successful at school but few decisions are harder than identifying the right school for your child The Independent Schools Guide now in its 17th edition provides all the guidance and advice needed to make

the most informed decisions The book includes an extensive reference section for over 2 000 schools details on fee planning scholarships and bursaries guidance for overseas parents including language support and guardianship and detailed profiles of over 200 schools and colleges For any parent guardian or carer who is considering the independent sector the Guide is the definitive reference source The Independent Schools Guide Gabbittas Educational Consultants,2006-03 With extensive and detailed profiles and a fully comprehensive directory section this book provides definitive guidance to parents considering private education in Britain Specialised English Ken Hyland,Lillian L C Wong,2019-03-28 Specialised English New Directions in ESP and EAP Research and Practice provides an authoritative and cutting edge account of the latest avenues of research and practice in the dynamic field of Specialised English Ken Hyland and Lillian Wong present 17 specially commissioned chapters by some of the world s leading experts to offer discussions of key topics in research theory and pedagogy from a variety of international perspectives Divided into three sections which focus on conceptual issues text and classroom practice this book Offers a clear and accessible introduction to current issues in EAP and ESP including academic interaction academic lingua franca second language publishing workplace talk practitioner identity data driven learning and critical thinking Includes studies of a range of genres such as research articles and student reports student spontaneous speech personal statements builders diaries and university tutorials Presents links between theory and practice with a sampling of different research methodologies practical applications and theoretical approaches Specialised English is essential reading for upper level undergraduate and postgraduate students and researchers in EAP ESP and applied linguistics as well as pre and in service teachers and teacher educators **Perspectives on the IB Diploma Core** Jeff Thompson,Judith Fabian,Mary Hayden,2019-10-15 The Diploma Programme was the first programme to be devised and implemented by the International Baccalaureate over fifty years ago Since its creation the curriculum upon which the programme is based has been continuously developed to take into account the rapidly changing needs of students schools higher education and employment contexts For much of that time the programme has included three essential components that must be undertaken by students who wish to graduate with the Diploma Theory of Knowledge Extended Essay and Creativity Activity Service CAS Taken together over time these have come to be regarded as a core of the Diploma Programme although they were not described as such at the outset This edited collection is intended to provide input into the current review of the IB Diploma Programme It comprises contributions from experienced authors researchers and practitioners who were invited to reflect upon the nature of the core as it exists at present to raise issues in relation to the future development of the core and to share experience in the learning and teaching of the core components across a wide range of schools in both national and international systems of education Questions concerning the concept of the core as a whole developing students as internationally minded thinkers and the challenges of bringing coherence to the core in establishing a holistic approach to the curriculum underpin the individual chapters throughout Contributors Edward Allanson

Tom Brodie John Cannings Christian Chiarenza Mary Donnellan Jenny Gillett Robin Julian Julian Kitching Justin Laleh Ann Lautrette James MacDonald Shona McIntosh Heather Michael Paul Regan John Royce John Sprague George Walker

Books and Butts Joseph H. Doenges, 2013-05-16 Books and Butts is an historical and humorous insight into the Texas high school of the 1980s It is a diary of the 1980 81 School Year in Boerne Texas written from the perspective of the assistant principal As such it focuses on the trials and tribulations of the school disciplinarian whose job responsibilities included management of textbooks and corporal punishment Hence the title Books and Butts **War and Ideas** John

Mueller, 2013-09-13 This book collects the key essays together with updating notes and commentary of Professor John Mueller on war and the role of ideas and opinions Mueller has maintained that war and peace are in essence merely ideas and that war has waned as the notion that peace is a decidedly good idea has gained currency The first part of the book extends this argument noting that as ideas have spread war is losing out not only in the developed world but now in the developing one and that even civil war is in marked decline It also assesses and critiques theories arguing that this phenomenon is caused by the rising acceptance of democracy and or capitalism The second part argues that the Cold War was at base a clash of ideas that were seen to be threatening not of arms balances domestic systems geography or international structure It also maintains that there has been a considerable tendency to exaggerate security threats currently in particular the one presented by international terrorism and to see them in excessively military terms The third section deals with the role public opinion plays in foreign policy and argues that many earlier conclusions about opinion during the Korean and Vietnam Wars including especially ones concerning the importance of casualties in determining popular support for war apply to more recent military ventures in the Persian Gulf Bosnia Iraq and Afghanistan It also assesses the difficulties leaders and idea entrepreneurs often encounter when they try to manage or manipulate public opinion This book will be of much interest to students of international relations security studies foreign policy and international history *Making Sport*

History Pascal Delheye, 2014-05-23 The field of sport history is a relatively new research domain situated at the intersection of a number of disciplines and sub disciplines This interdisciplinarity has created interesting avenues for growth and fresh thinking but also inherent problems of coherence and identity Making Sport History examines the development of an academic community around sport history exploring the roots of the discipline its current boundaries borders and challenges and looking ahead at future prospects Written by a team of world leading sport historians with commentaries from scholars working outside of the sport historical mainstream the book considers key themes in the historiography of sport including The relationship between history sport studies and physical education Comparative analysis of the role of historians in the writing of sport history Modern and post modern approaches to sport history Race gender and the sport historical establishment The role of scholarly organisations conferences and journals in discipline building Presenting new perspectives on what constitutes sport history and its core methodologies the book helps explain why historians have become interested in

sport why they've chosen the topics they have and how their work has influenced the wider world of history and been influenced by it Making Sport History is essential reading for any advanced student scholar or researcher with an interest in sport history historiography or the history and philosophy of the social sciences

How to Design Questions and Tasks to Assess Student Thinking Susan M. Brookhart, 2014-08-20 With new standards emphasizing higher order thinking skills students will have to demonstrate their ability to do far more than simply remember facts and procedures But what's the best way for teachers to ensure that students have such skills In this highly accessible guide author Susan M Brookhart shows how to do just that by providing specific guidelines for designing targeted questions and tasks that align with standards and assess students ability to think at higher levels Aided by dozens of examples across grade levels and subject areas readers will learn how to take a student perspective and view assessment questions and tasks as problems to solve design multiple choice questions that require higher order thinking understand the difference between open and closed questions and how to use open questions effectively vary and control the features of performance assessment tasks including cognitive level and difficulty to target different thinking skills and manage the assessment of higher order thinking within the larger context of teaching and learning Brookhart also provides an idea bank that teachers can use to jump start their own thinking as they create assessments Timely and practical How to Design Questions and Tasks to Assess Student Thinking is essential reading for 21st century teachers who want their students to excel in the classroom and beyond

Dictionary Of Modern American Philosophers John R. Shook, 2005-05-15 The Dictionary of Modern American Philosophers includes both academic and non academic philosophers and a large number of female and minority thinkers whose work has been neglected It includes those intellectuals involved in the development of psychology pedagogy sociology anthropology education theology political science and several other fields before these disciplines came to be considered distinct from philosophy in the late nineteenth century Each entry contains a short biography of the writer an exposition and analysis of his or her doctrines and ideas a bibliography of writings and suggestions for further reading While all the major post Civil War philosophers are present the most valuable feature of this dictionary is its coverage of a huge range of less well known writers including hundreds of presently obscure thinkers In many cases the Dictionary of Modern American Philosophers offers the first scholarly treatment of the life and work of certain writers This book will be an indispensable reference work for scholars working on almost any aspect of modern American thought

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The International Baccalaureate Diploma Program and the School Library Anthony Tilke, 2011-03-11 This book a blend of practice and theory shows how the school library can contribute to the success of the International Baccalaureate Diploma Program Written for librarians in schools that are applying to offer the program as well as those who already work with it The International Baccalaureate Diploma Program and the School Library Inquiry Based Education provides information and strategies specifically relating libraries to the IBDP The guide includes information about the IBDP ranging from the subject

matrix to unique aspects of the program such as the Theory of Knowledge course the Extended Essay requirement and the Learner Profile The book also discusses other important features of IB programs such as internationalism and academic honesty Finally it blends theory and practice by providing details and findings from the only two year research study to follow students and teachers through the IBDP The study demonstrates the role of the school library in the program showing how both students and teachers used and valued it Each chapter concludes with a series of points or strategies for the librarian to reflect upon and or use as the basis of action

Carnap's Construction of the World Alan W. Richardson, 1998 The first detailed and comprehensive study of Rudolf Carnap an influential figure in twentieth century philosophy

The Saturday Review of Politics, Literature, Science, Art, and Finance , 1863

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