

Alice: A Fresh Approach to Teaching Computer Science

Carnegie Mellon University

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www.alice.org

Creating Movies and Games as a Motivation for Programming

Computer Science enrollments dropped 25% last year. In a country that is increasingly dependent on computing, it is critical that we reverse this trend. Introductory Computer Science courses often draw examples and assignments from the business computing and systems building domains. These contexts are intended to ground computer science concepts in a domain that makes the problems relevant to students, yet many students do not begin to see the relevance of their computer science classes until their sophomore and junior years. Rather than relying on business and systems building examples, we have created a programming environment that allows students to learn back a computer science while creating animated movies and simple video games where students control the behaviors of 3D objects and characters in a virtual world. Alice is freely available and open source.

Alice: Visible Data, and No Syntax!

In Alice, students construct programs by dragging and dropping files that represent words in a programming language. Alice removes the possibility for syntax errors, a critical source of frustration for beginning programmers. Students can watch their programs execute, which enables students to get where they have made mistakes. Unlike many programming environments for novices, Alice allows students to gain experience with all the programming constructs typically taught in programming courses.

A Quick Tour of Alice



- 1 The object tree displays a list of objects in the current Alice world and allows students to select objects.
- 2 The scene editor allows students to lay out objects in their 3D world.
- 3 Students use a slider to associate methods with mouse clicks, object collision, etc.
- 4 The details area displays methods, functions, and data for the selected object.
- 5 Students can build programs by dragging methods from the details area.

Schools Using Alice

Ballou University
California Lutheran University
California State University at Marshall
Carnegie Mellon University
Clemson University
Colorado School of Mines
Drexel University
Eastern Michigan University
Florida State University
Georgia College
Hawaii Pacific University
Illinois College
Indiana University
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North Carolina State University
Ohio State University
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Penn State University
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University of Missouri
University of Nebraska
University of North Carolina
University of Oklahoma
University of Oregon
University of Pennsylvania
University of South Carolina
University of Tennessee
University of Virginia
University of Washington
University of Wisconsin
University of Wyoming

Alice has been Formally Shown to Improve Grades and Retention

Alice has been formally shown to help at-risk students (those with a weak math background and/or no prior programming experience) succeed in Computer Science¹. At-risk students who take an Alice class either prior to or concurrent with CS1 perform as well as students who are not at-risk, and substantially better than other at-risk students. Prentice-Hall has published a textbook based on Alice for college-level introductory programming.

Alice Improves Student Performance in CS1.

Performance of at-risk students.	Grade in CS1	Take CS2?
Without Alice	C	47%
With Alice	B	88%

¹ Michael W. Dierker and Randy Pausch, "Student Learning Effectiveness of a First Year Computer Science Course: The Power of Alice", in Proceedings of the 2004 ACM Conference on Computer Science Education, 2004.



The Alice gallery contains both over 700 characters and objects.

Alice: a revolutionary way to teach programming



A free gift to you from
Carnegie Mellon

Alice Instructor Guide Carnegie Mellon

G Psacharopoulos



Alice Instructor Guide Carnegie Mellon:

Getting to Know Alice Jeanne Nagle, 2014-07-15 Alice is one of several programming environments that use prewritten code to help get beginners started with coding This animated overview discusses Alice s history and development why it was created and how it has made programming fun and easy for novice coders Readers will learn how to access and start using Alice its requirements and its strengths and weaknesses Examples of the terms and commands give readers an idea of what to expect when using Alice Examples of projects created using Alice will encourage readers to try it out for themselves **A Right to Die?: Teachers Guide** David Andersen, Robert Cavalier, Preston Covey, 2003-09-02 A 96 page guide to the background program uses for and contact time needed with the CD ROM A Right to Die The Dax Cowart Case This guide is supplied free with every multi user copy of the CD ROM and will prove invaluable for all those planning to use the program in a classroom setting This guide is not available to purchase separately Bibliographic Guide to Education , 2001 lists publications cataloged by Teachers College Columbia University supplemented by The Research Libraries of The New York Public Library Distributed, Ambient and Pervasive Interactions Norbert Streitz, Shin'ichi Konomi, 2021-07-07 This conference proceedings LNCS 12782 constitutes the refereed proceedings of the 9 th International Conference on Distributed Ambient and Pervasive Interactions DAPI 2021 held as part of the 23rd International Conference HCI International 2021 which took place in July 2021 The conference was held virtually due to the COVID 19 pandemic The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions The papers of DAPI 2021 Distributed Ambient and Pervasive Interactions are organized in topical sections named Smart Cities IoT Sensors and Smart Environments Learning and Culture in Intelligent Environments Designing Intelligent Environments **Handbook of Research on Instructional Systems and Educational Technology** Kidd, Terry, Morris, Jr., Lonnie R., 2017-04-20 Incorporating new methods and approaches in learning environments is imperative to the development of education systems By enhancing learning processes education becomes more attainable at all levels The Handbook of Research on Instructional Systems and Educational Technology is an essential reference source for the latest scholarly research on new models trends and data for solving instructional and learning challenges in education Featuring extensive coverage on a wide range of topics such as distance education online learning and blended learning this publication is ideally designed for academicians practitioners researchers and students seeking current research on the latest improvements in instructional systems Improving Reading in Every Class Ellen Lamar Thomas, H. Alan Robinson, 1977 ALERT Before you purchase check with your instructor or review your course syllabus to ensure that you select the correct ISBN Several versions of Pearson s MyLab check with the seller before completing your purchase Used or rental books If you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code Access codes Access codes that are purchased from sellers other than

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Tugba, 2017-10-31 Computational technologies have been impacting human life for years Teaching methods must adapt accordingly to provide the next generation with the necessary knowledge to further advance these human assistive technologies Teaching Computational Thinking in Primary Education is a crucial resource that examines the impact that instructing with a computational focus can have on future learners Highlighting relevant topics that include multifaceted skillsets coding programming methods and digital games this scholarly publication is ideal for educators academicians students and researchers who are interested in discovering how the future of education is being shaped **International**

Symposium on Distributed Computing and Artificial Intelligence Ajith Abraham, Juan Manuel Corchado Rodríguez, Sara Rodríguez González, Juan F. de Paz Santana, 2011-03-29 The International Symposium on Distributed Computing and Artificial Intelligence 2011 DCAI 2011 is a stimulating and productive forum where the scientific community can work towards future cooperation on Distributed Computing and Artificial Intelligence areas This conference is the forum in which to present application of innovative techniques to complex problems Artificial intelligence is changing our society Its application in distributed environments such as internet electronic commerce environment monitoring mobile communications wireless devices distributed computing to cite some is continuously increasing becoming an element of high added value with social and economic potential both industry life quality and research These technologies are changing constantly as a result of the large research and technical effort being undertaken in universities companies The exchange of ideas between scientists and technicians from both academic and industry is essential to facilitate the development of systems that meet the demands of today's society This edition of DCAI brings together past experience current work and promising future trends associated with distributed computing artificial intelligence and their application to provide efficient solutions to real problems This symposium is organized by the Bioinformatics Intelligent System and Educational Technology Research Group <http://bisite.usal.es> of the University of Salamanca The present edition has been held in Salamanca Spain from 6 to 8 April 2011

Second Language Acquisition in a Study Abroad Context Barbara F. Freed, 1995-01-01 Second Language Acquisition in a Study Abroad Context brings together for the first time a series of studies which explore the relationship between language learning and the study abroad experience Utilizing different research methodologies quantitative qualitative descriptive the focus in this collection is on various aspects of second language learning including the acquisition of sociolinguistic competence the acquisition of fluency the use of communicative strategies and the development of oral and written skills The studies are cross linguistic and deal with student populations at the secondary and college levels who spent between three months and one year in study abroad or exchange programs in Japan Russia Spain Mexico France or Canada

Transforming K-12 Classrooms with Digital Technology Yang, 2013-09-30 This book brings together research and

practices regarding digital and social technology integration in the K 12 classroom sharing practical and conceptual aspects of using digital and social technologies as tools for transforming K 12 learning environments **The STEM Shift** Ann Myers,Jill Berkowicz,2015-04-22 All you need to make the shift to STEM a reality This resource makes the process of shifting to a comprehensive integrated STEM school or district within reach Invaluable case studies featuring STEM pioneers model how successful STEM centered learning takes place You ll find process specific best practices and strategies to help you Understand create and lead the STEM change proces Prepare the school community for STEM Integrate 21st Century Skills the arts and humanities Includes step by step checklists and visual mapping guides Use this groundbreaking resource to systematically implement STEM instruction that prepares students for the global economy Developing Math Talent Susan G. Assouline,Ann Lupkowski-Shoplik,2021-09-03 Build student success in math with the only comprehensive guide for developing math talent among advanced learners The authors nationally recognized math education experts offer a focused look at educating gifted and talented students for success in math More than just a guidebook for educators this book offers a comprehensive approach to mathematics education for gifted students of elementary or middle school age The authors provide concrete suggestions for identifying mathematically talented students tools for instructional planning and specific programming approaches Developing Math Talent features topics such as strategies for identifying mathematically gifted learners strategies for advocating for gifted children with math talent how to design a systematic math education program for gifted students specific curricula and materials that support success and teaching strategies and approaches that encourage and challenge gifted learners The Cambridge Handbook of Computing Education Research Sally A. Fincher,Anthony V. Robins,2019-02-13 This is an authoritative introduction to Computing Education research written by over 50 leading researchers from academia and the industry **Reading, Writing, and Digitizing** Alice Horning,2013-01-16 Reading Writing and Digitizing offers a new theoretical proposal concerning expert and novice readers and writers based on the psycholinguistics of literacy This book has five specific goals First it presents a theory of meta reading and writing that describes what literacy experts are able to do with written text They do what the word meta describes go before and after into and around beyond and beside written text to understand and create meaning Second the case studies presented reveal differences between literacy novices and experts in terms of their awarenesses about texts and their skills these are clarified as the discussion unfolds Third the book provides an analysis of the processing mechanisms people use and the features that texts contain that make literacy possible A fourth goal is to examine how experts understand and produce texts in both traditional and digital venues Finally the book ends with focused strategies for instruction that will be useful to any reader working with people engaged in literacy development Readers of this book will be better equipped to support the literacy development of others through their enhanced understanding of the psycholinguistics of reading and writing and of the differences between literacy novices and experts **Technology and Literacy** Jennifer Nelson,Keith Braafladt,2012

Explains why it is important for libraries to offer rich media technology based programs for youth and how you can do it in your library *An Introduction to the Study of Education* David Matheson, 2014-01-14 What is education This core textbook will help students in pursuit of this question by providing a comprehensive gentle and reflective introduction to the initial study of education Updated in line with the latest policies reforms and issues within education this third edition includes full exploration of the historical sociological philosophical and psychological roots of education a focus on all levels of education pre school primary secondary post 16 and lifelong learning the latest controversies and debates within education new material on compulsory education special educational needs and post 16 developments clear insights into the role and background of research within education [International Education Resources](#) Pat Kern McIntyre, 1980 **Resources in Education** ,1994 **Peterson's Annual Guides to Graduate Study** ,1982-12 [Who's who in U.S. Writers, Editors & Poets](#) ,1992

Reviewing **Alice Instructor Guide Carnegie Mellon**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Alice Instructor Guide Carnegie Mellon**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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