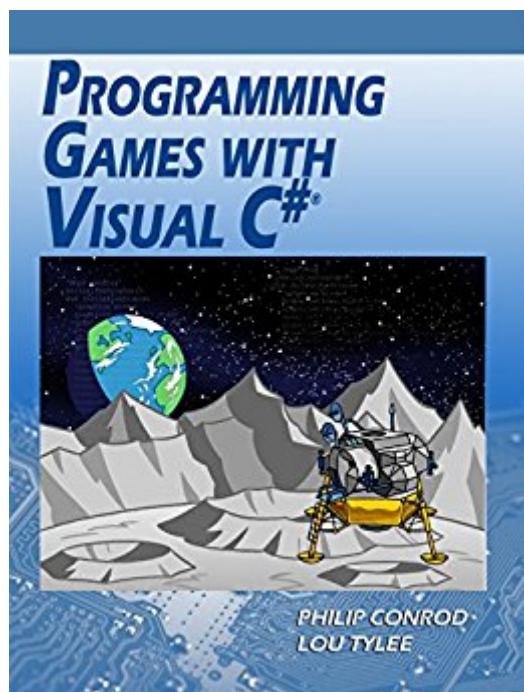The book was found

Programming Games With Visual C#: An Intermediate Step By Step Tutorial

Synopsis

PROGRAMMING GAMES WITH VISUAL C# is a second semester self-paced "intermediate" computer game programming tutorial consisting of 10 chapters explaining (in simple, easy-to-follow terms) how to build Visual C# Games. The games built are non-violent and teach logical thinking skills. To grasp the concepts, you should possess a working knowledge of Windows and have had some exposure to Visual C# programming (or some other programming language). We offer a beginning programming tutorial (VISUAL C# FOR KIDS and BEGINNING VISUAL C#) that would help you gain this needed programming exposure. Ã¢â ¬â PROGRAMMING GAMES WITH VISUAL C# explains (in simple, easy-to-follow terms) how to build a Visual C# game project. Game skills learned include handling multiple players, scoring, graphics, animation, and sounds. The game projects built include, in increasing complexity:Ã¢â ¬Â¢ Safecracker - Decipher a secret combination using clues from the computer.Ã¢â ¬Â¢ Tic Tac Toe Ã¢â ¬â œ The classic game!Ã¢â ¬Â¢ Match Game Ã¢â ¬â œ Find matching pairs of hidden photos Ã¢â ¬â œ use your own photos!Ã¢â ¬Â¢ Pizza Delivery Ã¢â ¬â œ A business simulation where you manage a small pizza shop for a night.Ã¢â ¬Â¢ Moon Landing Ã¢â ¬â œ Land a module on the surface of the moon.Ã¢â ¬Â¢ Leap Frog Ã¢â ¬â œ A fun arcade game where you get a frog through traffic and across a raging river.The book includes over 700 pages of self-study notes, all Visual C# source code and all needed graphics and sound files.The course requires a Microsoft Windows Operating System and a minimum of Microsoft Visual Studio 2015. The Visual C# source code solutions and all needed multimedia files are included in the compressed download file available from the Publisher's website (KidwareSoftware.com) after book registration.

Book Information

File Size: 40628 KB

Print Length: 929 pages

Publisher: Kidware Software LLC; 15 edition (July 11, 2017)

Publication Date: July 11, 2017

Sold by:Ã Â Digital Services LLC

Language: English

ASIN: B073W5FJRR

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Screen Reader: Supported

Enhanced Typesetting: Enabled

Best Sellers Rank: #732,878 Paid in Kindle Store (See Top 100 Paid in Kindle Store)   #35 inÃ Â Books > Teens > Education & Reference > Science & Technology > Computers > Programming   #65 inÃ Â Kindle Store > Kindle eBooks > Teen & Young Adult > Education & Reference > Science & Technology > Computers   #123 inÃ Â Kindle Store > Kindle eBooks > Teen & Young Adult > Hobbies & Games

Customer Reviews

What is "Programming Games with Visual C# " and how it works.These lessons are a highly organized and well-indexed set of lessons in the Visual C# programming environment. Visual C# is a programming environment which allows the user to drag and drop buttons, text boxes, scroll bars, timers and dozens of other visual "controls" to make programs which look like "Windows" programs. They provide a graphical user interface to the user.The tutorials provide the benefit of completed real-world applications - fully documented projects from the teacher's point of view. That is, while full solutions are provided for the teacher's (and learner's) benefit, the projects are presented in an easy-to-follow set of lessons explaining the rational for the form layout, coding design and conventions, and specific code related to the problem.The learner may follow the tutorials at their own pace while focusing upon context relevant information. The finished product is the reward, but the student is fully engaged and enriched by the process. This kind of learning is often the focus of teacher training. Every Computer Science teacher knows what a great deal of work is required for projects to work in this manner, and with these tutorials, the work is done by an author who understands the classroom experience. That is extremely rare!Game projects are presented in an easy-to-follow set of lessons explaining concepts fundamental to all languages ÃƒÂ¢Ã â ¬Ã â œ data types, input and output, decision making, looping, built-in functions, the different types of errors (syntax versus logical), logical expressions, comparison operators, random numbers, string functions, arrays, and subroutines. Emphasis is placed on Visual C# controls ÃƒÂ¢Ã â ¬Ã â œ naming conventions, coding practices, intellisense features and debugging techniques. While game programming holds a higher degree of interest for the young programmer, an experienced teacher would recognize all of the above as a substantive list of topics in any first secondary or post-secondary course in Computer Science.Graduated Lessons for Every Project ÃƒÂ¢Ã â ¬Ã Â| Lessons, examples, problems and projects. Graduated learning. Increasing and appropriate

difficulty... Great results.With these projects, there are lessons providing a rich background on the programming topics to be covered. Once understood, concepts are easily applicable to a variety of applications. Then, specific games are drawn out so that a learner can practice with the Visual C# commands. A summative game program for the chapter is presented. Game design is broken down into manageable parts ÃƒÂ¢Ã â ¬Ã â œ the logical solution to the problem, the design of the user-interface and supporting methods (code modules) come together in the finished product.By presenting lessons in this graduated manner, students are fully engaged and appropriately challenged to become independent thinkers who can come up with their own project ideas, design their own graphical user interfaces, and do their own coding. Once the process is learned, then student engagement is unlimited! I have seen student literacy improve dramatically as they cannot get enough of what is being presented.Indeed, lessons encourage accelerated learning - in the sense that they provide an enriched environment to learn computer science, but they also encourage accelerating learning because students cannot put the lessons away once they start! Computer Science provides this unique opportunity to challenge students, and it is a great testament to the authors that they are successful in achieving such levels of engagement with consistency.My history with the Kidware Software products.I have used single license or shareware versions for over a decade to keep up my own learning. By using these lessons, I am able to spend time on things which will pay off in the classroom. I do not waste valuable time ensconced in language reference libraries for programming environments and help screens which can never be fully remembered! These game-design projects are examples of how student projects should be as final products - thus, the pathway to learning is clear and immediate.By following these lessons, I was able to come up with my own projects - An Equation Solver which allows a student to solve any equation that they are likely to encounter in high school, a dice game of Craps, a Financial Calculator covering all grade 12 Financial Math applications, and finally, the game of Mastermind - where I presently have a "Mastermind Hall of Fame" for the best solutions by students over the years. I have made several applications for hardware interfacing in Computer Technology class. I could do all of this only because of these lessons by Kidware Software!The exciting thing is that all of the above could also be done in BASIC or Visual Studio languages ÃƒÂ¢Ã â ¬Ã â œ such as QBasic, Small Basic, Visual Basic or Visual C++, though I first learned to do the programming using Kidware SoftwareÃƒÂ¢Ã â ¬Ã â„¢s "Learn Visual Basic". For me to go from one language to another is now an inevitable outcome!With these lessons, I am able to concentrate on the higher order thinking skills presented by the problem, and not be chained to a language reference in order to get things done!If I want to have students use or expand upon projects, then I take advantage of

site-license options. I have found it very straight forward to emphasize the fundamental computer science topics that form the basis of these projects when using them in the classroom.Quick learning curve for teachers! How teachers can use the product:Having projects completed ahead of time can allow the teacher to present the design aspect of the project FIRST, and then have students do all of their learning in the context of what is required in the finished product. This is a much faster learning curve than if students designed all of their own projects from scratch. Lessons concentrating on a unified outcome for all make for much more streamlined engagement for first-time students of computer programming, as they complete more projects within a short period of time and there is a context for everything that is learned.Meet Different State and Provincial Curriculum Expectations and MoreDifferent states and provinces have their own curriculum requirements for computer science. With the Kidware Software products, you have at your disposal a series of projects which will allow you to pick and choose from among those which best suit your curriculum needs. Students focus upon design stages and sound problem-solving techniques from a computer-science perspective. In doing so, they become independent problem-solvers, and will exceed curricular requirements of elementary, middle and secondary schools everywhere.Useable projects - out of the box !The specific projects covered in the Programming Games with Visual C# Express tutorials are suitable for grade 10 and above:Safecracker (a numeric version of Mastermind)Tic Tac ToeMatch Game (Concentration)Pizza Delivery ÃƒÂ¢Ã â ¬Ã â œ a game emphasizing business practicesMoon Landing ÃƒÂ¢Ã â ¬Ã â œ emphasizing trajectory physicsLeap Frog ÃƒÂ¢Ã â ¬Ã â œ emphasizing collision detectionAs you can see, there is a high degree of care taken so that projects are age-appropriate, providing educational content in the finished games.You can begin teaching the projects on the first day. It's easy for the teacher to have done their own learning by starting with the solution files. Then, they will see how all of the parts of the lesson fall into place. Even a novice teacher could make use of the accompanying lessons. The lessons will provide more than just the coding of the solution - they will provide the correct context for the coding decisions which were made, and provide help in the investigation of related functions. Students then experiment with projects of their own making.How to mark the projects.In a classroom environment, it is possible for teachers to mark student progress by asking questions during the various design and coding stages. Teachers can make their own written quizzes easily from the reference material provided, but I have found the requirement of completing projects (mastery) sufficient for gathering information about student progress - especially in the later grades.Lessons encourage your own programming extensions.Once concepts are learned, it is difficult to NOT know what to do for your own projects.Once having done my own projects in one language, such as

Visual C#, I know that I could easily adapt them to other languages once I have studied the Kidware Software tutorials. I do not believe there is any other reference material out there which would cause me to make the same claim! In fact, I know there is not as I have spent over a decade looking!Having used Kidware Software tutorials for the past decade, I have been successful at the expansion of my own learning to other platforms such as XNA for the Xbox, or the latest developer suites for tablets and phones. I thank Kidware Software and its authors for continuing to stand for what is right in the teaching methodologies which not only inspire, but propel the self-guided learner through what can be a highly intelligible landscape of opportunities.Regards,Alan Payne, B.A.H. , B.Ed.Computer Science Teacher

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