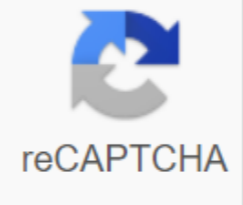




I'm not robot



Continue





(319.189), 1, B Then you need to check that any proposed x is between 0 and 319 and any y is between 0 and 189. 2. Use the program described last time (to interpret the arrow keys) to create a new program that draws lines. The pseudocode will be: - draw a point in the center of the screen, if left arrow pressed then, draw line segment to the left, if you press the up arrow, Then draw line segment up ..... You can make line segments a constant quantity or a random quantity. 2. Use F3 and F4 to increase and decrease speed. Remember to check for a speed of 0. However, don't let the speed go below 0. 3. Use F5 to change the color of the lines being drawn 4. Use F6 to draw a circle at the current location. [... back to the table of contents] 7.5 For Super-Extra Credit ----- The last time we described a game in which you tried to control a moving without hitting the characters that were already on the screen. This time we didn't include those rules in the game description. Before reading more, try to think about the reasons why this might not be as simple as it was with the characters. Can you think of methods by which you could avoid these exercises? (You don't need to write the actual programs.) Ready? When drawing a line, how can you know which pixels make up the line between the 2 points? One of the strengths of the LINE command is also an inconvenience. We're just telling him to draw line from (x,y) to (x',y'), but we don't have to calculate the individual pixels that are drawn. With the characters, we know exactly which ones to look at. For the line, we would have to take out our trig manuals to calculate exactly which pixels were being covered. There are algorithms that describe how to know if 2 lines intersect, or if a particular point is on a line, but even using these, we would be stretching an interpreted language to try to do it all in real time. Don't feel bad if you didn't solve this exercise. It is quite difficult to find a solution that is practical and fast. Rather, Basic provides an extremely flexible method for investigating such involved and difficult exercises. In several of my published games I have struggled with these same problems. My focus is to write short basic programs first, examining the difficulties in detail. When the problem is resolved, I can build it into PowerBasic or rewrite it in another language. So even if my last language is C or Pascal, Basic is often my first choice for creating fast and dirty graphic prototypes. [... Back to table of contents] 7.6 The end of the ----- This completes the BASIC TRAINING TUTORIAL. We've covered a lot of topics, and if you've done some of the exercises, projects and played with the sample programs, you should have a solid understanding of the Basic elements at this point. What you do next depends on the types of programs you want to write. If you are interested in studying more than Basic can do and what a compiler can add, the Advanced Tutorial will help you. When you sign up, you get it for free. ADVANCED BASIC. Topics include: Animation Techniques, Shape Change Techniques, Error Handling, Chaining, Windows, Peek/poke, Bload/bsave, Plus, details about the differences between interpreters and compilers. And complete source for all examples. Advanced Basic is only available to registered users. Registration costs only \$20, and you'll receive the Advanced Basic Tutorial as a bonus, along with more source code for all the examples in that tutorial. In addition, registering also obtains an evaluation copy of the LIBERTY Basic for Windows compiler. This program allows you to develop basic programs in the Windows environment, without the need for the Windows Software Development Kit. You may also want to order the Game Pack option. The Games package includes source code for 2 Cascoly programs that you can compile and modify for your personal use. ATC - An air traffic controller game that is perfect for a few minutes or hours of fun. Easy to learn, but hard to master. The game performs the best in each of the 20 difficulty levels. Demonstrates how to use real-time outages and error detection. ECOMASTER -- The CGA version of Cascoly's ecology game. A deviant ecology game in which you bid and animals based on their skills to thrive in different environments. To register, go back to DOS and enter the command: REGISTRATION ? An order form will be printed for you. Or send a \$20+ \$4 shipment to: Cascoly Software ?? 4528 36th Ave NE ? Seattle WA 98105 [... back to the table of contents] ---, T H E E N D, --- Thomas Anton's HTML 2004 conversion www.QBasic.de  
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