

Connect Four Command line games

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Summary: In Connect Four, it's a game you play at the command line. If you want to get fancy you can try to code an AI.

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Chapter I

Goals

Games are one of the oldest motivations for computer science and still drive the industries of processors and microchips today. What is the goal of learning Ruby other than to make the world your own arcade game?

Connect 4 is one of the many simple grid-based games which we can easily play at the terminal window. You could do the same thing with Tetris, or Sudoku, or word searches, or Checkers - it's a template for how to build a certain type of game.

How would you coach a computer to have strategy on this one?

Chapter II

General Instructions

Create a program connect4.rb which allows two users to play Connect 4 on the command line.

After a welcome screen and instructions, your output should look something like this:

... and so on.

Chapter III Mandatory Part

- The default board has 6 rows and 7 columns.
- The board should display in its updated state after every play.
- Allow two human players to alternate giving commands.
- The first player to connect four pieces in a diagonal, horizontal, or vertical line, wins.
- Print a message when one of the players wins or when there is a tie.
- The program should not throw any unhandled exceptions, have strange behavior or crash!
- Gravity works!

Chapter IV Bonus Part

In no particular order, choose any/none/all:

- Allow resizing of the board and the streak goal so that we can play Connect 11 on a 42×42 board, or Connect 3 on a 4×5 .
- Code a computer player which contains similar functions as your human players, but makes its own decisions of how to play.
- Coordinate with a friend so that your computer players can each interact with the same board and try to beat each other.
- Can you make the board change dynamically in place in the terminal, instead of each new version printing below the last?



Google ANSI escape codes.

- Can you even animate the dropping of the pieces using that technique?!?
- Code another game try Tic Tac Toe, or Checkers.