## Chance Game - Ruby Terminal Application

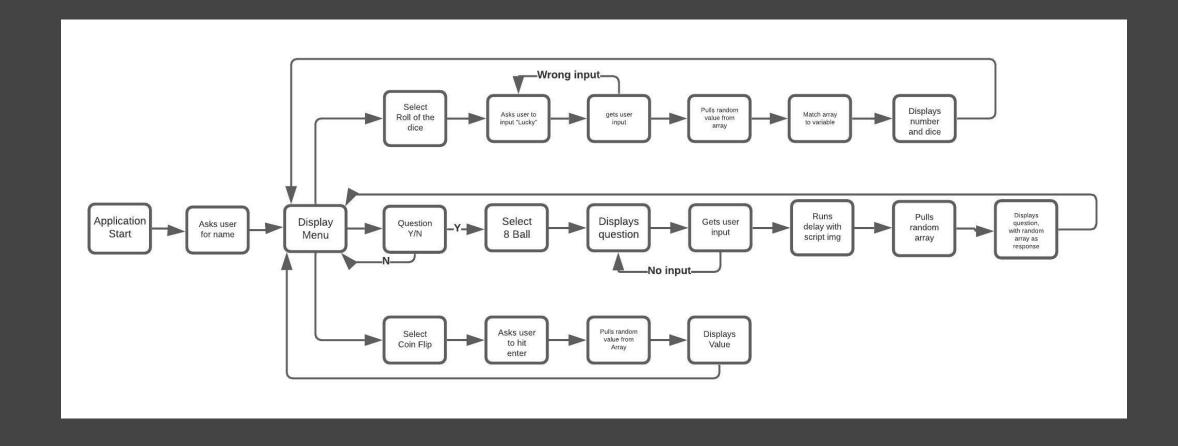
This is my ruby based terminal application, it is a chance based game, with 3 seperate games within.

I Started with a concept of what I wanted to do, then moved onto planning it out with a trello board to help me keep to pre set requirements. I then made a flow chart for how I wanted the program to run, researched gems that would fit my application and started coding.

I started by coding each of my sub games, putting them in methods to be able to call them remotely to keep my code nice and clean. I then added the main menu system and joined all the games. I went in after and added styling and extra little run features.



# Flow Chart



#### Initial Setup & Command Line Arguments

When you run the bash script it will automatically install any required gems, bundle and bring up a section for you to enter your name and supply it to the main script. It then runs the ruby terminal application.



#### Main Menu

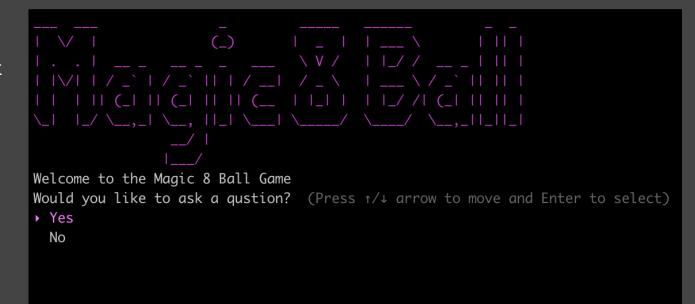
The main menu recieves the name inputed into the command line and displays it with a message, if no name is entered it displays a message without the Hello and displayed name. Using TTY-prompt you navigate using your arrow keys and the enter keys, once you click an option it launches each app.



Hello Kyle, Welcome to the Chance Game!!
Select what game you would like to play: (Press ↑/↓ arrow to move and Enter to select)
Magic 8 Ball
Coin Flip
Roll The Dice
Exit

## Magic 8 Ball

When you select the Magic 8 Ball app, it runs another question verfifying whether or not you would like to ask a question. No will take you back to the main menu, where Yes will continue in the application. Once you ask a question it brings up a quick loading screen of an 8 Ball and then displays your question with a randomly generated answer afterwards.



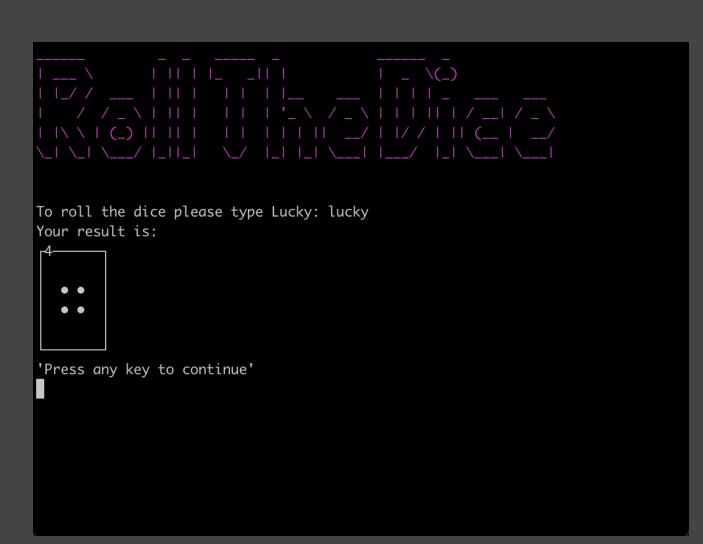
# Coin Flip

The Coin flip is pretty simple, it asks the user to hit Enter (Any key will work) and the application spits out either heads or tails.



#### Roll The Dice

To start the dice roll you need to type Lucky when you are asked, it will then roll the dice and display your number with a box representing the dice face using TTY-Box.



#### Code Run Through

This is my main code block that brings in the argument statement and turns it into a variable. Uses a case statement in conjunction with tty prompt to chose and run menu options. I have loops for error handling if no name is entered, and for when you enter the Magic 8 Ball.

I put the coin flip into the main code as it was such a small element. I used an array to store heads or tails, then .sample to pull a random element from that array and display it.

```
src > main.rb
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                                                                                                                    puts pastel.magenta(font.write("Coin Flip"))
      font = TTY::Font.new(:doom)
                                                                                                                    puts pastel.magenta(font.write("Coin Flip"))
                                                                                                                    puts results sample
          puts pastel.magenta(font.write("CHANCE!"))
                                                                                                                    puts pastel.magenta(font.write("Roll The Dice"))
              puts pastel.magenta(font.write("Magic 8 Ball"))
              enter = prompt.select("Would you like to ask a qustion? ", ["Yes", "No"])
                 magic_8_ball
```

#### Dice Roll Code

This is the method to run my dice roll section. It uses variables to store each of the dice numbers and the TTY-box images. It uses a loop with rescue to handle user input error and pull a random array and match it to the variable to display to the user.

```
You, 15 hours ago | 1 author (You)
def dice_roll
   one = TTY::Box.frame " • ", title: {top_left: "1"}, align: :center, padding: [1,2,1,2]
   two = TTY::Box.frame ". .", title: {top_left: "2"}, align: :center, padding: [1,2,1,2]
   three = TTY::Box.frame " • •\n • ", title: {top_left: "3"}, align: :center, padding: [1,2,1,2]
   four = TTY::Box.frame " • \n • ", title: {top_left: "4"}, align: :center, padding: [1,2,1,2]
   five = TTY::Box.frame ". .\n . \n. .", title: {top_left: "5"}, align: :center, padding: [0,2,0,2]
   dice = [one, two, three, four, five, six]
   print "To roll the dice please type Lucky: "
   roll = gets chomp capitalize
   if roll == "Lucky"
       puts "Your result is: "
       puts dice sample
       puts "'Press any key to continue'"
       STDIN.getch
       system "clear"
       print "Please retry: "
```

# Magic 8 Ball Code

The magic 8 ball game is stored in a method, it uses an array to store all the answers.

When you answer the qustion I have it auto capitalize the question and remove any question marks as they are added later. It uses a loop and rescue for error handling and an added bonus for a specific question.

```
p_pages > <a> 8ball.rb</a>
                                                                                                          src > app_pages > @ 8ball.rb
You, 11 hours ago | 1 author (You)
                                                                                                                              STDIN.getch
   f magic_8_ball
    question = gets.chomp.capitalize.delete("?")
        sleep (1)
            print "#{question}?
            print "#{question}?
            puts "#{answers.sample}'
            STDIN.getch
```

# Challenges & Favorite Parts

#### Challanges

- Command argument was messing with my gets.chomp
- Getting my menu to load back to the main menu and not automatically exit the application
- Choosing what gems to use

#### **Favourite parts**

- Coding my own idea
- The code doing what I wanted to do
- Problem solving as issues came up
- Adding styling

# Thank you

Presentation by me