

T1A3 Terminal App

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Overview

Who Wants To Be A Terminal-Based Millionaire?

- CLI version of the popular game show
- Random sampling of over 500 questions in JSON format I found on Pastebin
- Hiscore and game statistics storage
- Lifelines
 - 50/50 - removes two incorrect menu options at random
 - Ask The Audience - generates a percentage graph and then uses RNG to determine if the correct answer will be heavily weighted
 - Phone A Friend - uses RNG to see if your terminal-based friend will give you the right answer or not

Random Question Sampling

JSON Parser

Sampler

```
{ } questions.json > { } 540
3759   "answer": "B"
3760 }, {
3761   "question": "Who was the mother of the Greek god Zeus?",
3762   "A": "Gaia",
3763   "B": "Phoebe",
3764   "C": "Rhea",
3765   "D": "Hera",
3766   "answer": "C"
3767 }, {
3768   "question": "Who was the WNBA's Most Valuable Player of 1999?",
3769   "A": "Rebecca Lobo",
3770   "B": "Sheryl Swoopes",
3771   "C": "Lisa Leslie",
3772   "D": "Yolanda Griffith",
3773   "answer": "D"
3774 }, {
```

```
class App
  def initialize
    @@questions = JSON.parse(File.read('./questions.json'))
    @@statistics = JSON.parse(File.read('./hiscores.json'))
  end
```

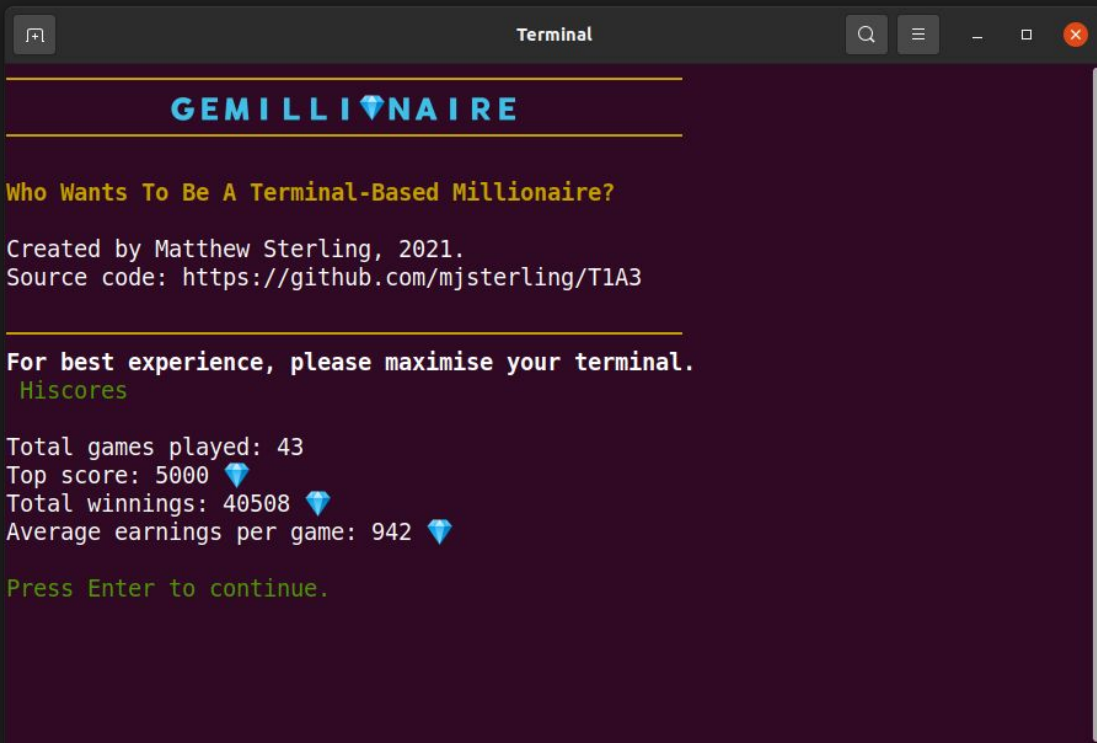
```
class Game < App
  attr_accessor :q_sample, :prizes, :score, :lose, :ff_options

  def initialize
    super

    @q_sample = @@questions.sample(15)
```

Hiscres/Statistics

JSON storage
when game
completes



```
Terminal

GEMILLIONAIRE

Who Wants To Be A Terminal-Based Millionaire?

Created by Matthew Sterling, 2021.
Source code: https://github.com/mjsterling/T1A3

For best experience, please maximise your terminal.
Hiscres

Total games played: 43
Top score: 5000 💎
Total winnings: 40508 💎
Average earnings per game: 942 💎

Press Enter to continue.
```

Game Flow

Instance var

@score to choose Q

TTY Prompt for
answer/lifelines

Check Answer and
Increment score

```
def display_question
  system('clear')
  current_q = @q_sample[@score]
  puts
  score_table
  puts
  puts "Question #{@score + 1}: #{current_q['question']}".bold
```

```
choices = [
  { name: "A - #{current_q['A']}", value: -> { check_answer('A') } },
  { name: "B - #{current_q['B']}", value: -> { check_answer('B') } },
  { name: "C - #{current_q['C']}", value: -> { check_answer('C') } },
  { name: "D - #{current_q['D']}", value: -> { check_answer('D') } },
  { name: "Walk away with #{PRIZES[@score]} 💎", value: -> { confirm_walk_away } },
  { name: '🎲 - 50/50', value: -> { fifty_fifty } },
  { name: '👥 - Ask The Audience', value: -> { ask_the_audience } },
  { name: '📞 - Phone A Friend', value: -> { phone_a_friend } }
]
```

```
def check_answer(answer)
  current_q = @q_sample[@score]
  if answer == current_q['answer']
    @score += 1
```

Game Window - TTY PROMPT

Score

Question

Answers

Lifelines

```
Terminal
| 0 | 500 | 1,000 | 2,000 | 3,000 |
| 5,000 | 7,500 | 10,000 | 12,500 | 15,000 |
| 25,000 | 50,000 | 100,000 | 250,000 | 500,000 |
| 1,000,000 |
Question 1: What is the final word of the Pledge of Allegiance?
Select an option: (Use ↑/↓ arrow keys, press Enter to select)
▶ A - America
  B - stands
  C - indivisible
  D - all
Walk away with 0
½ - 50/50
💡 - Ask The Audience
📞 - Phone A Friend
```

Game Window Code

Score display

```
def score_table
  i = 0
  while i < 16
    puts '|' if [5, 10, 15].include?(i)
    print '|'
    print i == @score ? "#{PRIZES[i]} 💎".center(13).bold.yellow : "#{PRIZES[i]} 💎".center(13)
    i += 1
  end
  puts '|'
end
```

Lifelines

Disabled when
used

Displays for one
question

RNG generated

```
Terminal

| 0 💎 | 500 💎 | 1,000 💎 | 2,000 💎 | 3,000 💎 |
| 5,000 💎 | 7,500 💎 | 10,000 💎 | 12,500 💎 | 15,000 💎 |
| 25,000 💎 | 50,000 💎 | 100,000 💎 | 250,000 💎 | 500,000 💎 |
| 1,000,000 💎 |

Question 1: What is the final word of the Pledge of Allegiance?

      Ask The Audience
A - 5%  B - 22%  C - 21%  D - 52%

      Phone A Friend
      'I think it's B.'

Select an option: (Use ↑/↓ arrow keys, press Enter to select)
> A - America
x B - stands
x C - indivisible
  D - all
  Walk away with 0 💎
x ½ - 50/50
x 🗨️ - Ask The Audience
x 📞 - Phone A Friend
```


Challenges

Finding 20 commit opportunities

Finding enough things to put on Trello