## TIA3 -Terminal Application

Zop

A Ruby Quiz Game By Nathan Blaga

## What Is Zop?

Zop is a Trivia/Quiz game Consists of 3 levels Each level has 30 unique questions The difficulty increases with each level

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[(\* )] Fetching Next Question ... Done!

Question: 1

Difficulty: Easy

To which group of people was Senator Don Chipp referring when he said the Democrats were there 'to keep the bastards honest'?

a. Major political parties
b. Police
c. Trade unions
d. Big business

Mathan: a

Correct Answer!

Nathan's Progress: 1 out of 10 Questions Correct.

Nathan's Progress: 5 out of 5 Incorrect Answers Remaining.

The player must answer 10 correct questions to beat the level
If they answer 5 incorrect answer, it's game over
All questions are MCQS
Each question only contains 1 correct answer

## Main Features

- Menu System
- Level Selection
- Level Difficulty

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  You Zoped out!

  [(\* )] Loading ... Done!

  Better luck next time Nathan!

  Select An Option: (Press †/\$ arrow to move and Enter to select)

  \* Level Selection.

  Quit Zop.
- Rules/Instruction menu
- Displays player progression after each question, including:
  - Number of correct answers
  - Attempts remaining
  - The correct answer

```
# Player_name class.
class Player_name
    def initialize(name)
    @name = name
    # Initialises Player name to @name.
    end
end
```

```
questions = [
    Question.new(Q01, "a", "Novice"),
    Question.new(Q02, "d", "Novice"),
    Question.new(Q03, "a", "Novice"),
    Question.new(Q04, "a", "Novice"),
    Question.new(Q05, "b", "Novice"),
    Question.new(Q06, "a", "Novice"),
    Question.new(Q07, "d", "Novice"),
    Question.new(Q08, "a", "Novice"),
    Question.new(Q09, "c", "Novice"),
    Question.new(Q10, "b", "Novice"),
```

```
Q01 =<<END
In the Walt Disney film, what type of creature is Bambi?
a. Deer
b. Elephant
c. Mouse
d. Cat
END
# Answer = a</pre>
```

```
if answer == question.answer
# Checks if inputed answer by player is equal to question.answer stored in array.
        score += 1
       # If true increase score counter by 1.
       puts "Correct Answer!".colorize(:green,)
       # If true display to the player it was the correct answer.
        puts @name.colorize(:yellow,) + "'s ".colorize(:yellow,) + "Progress: ".colorize(:yellow,)
        puts @name.colorize(:yellow,) + "'s ".colorize(:yellow,) + "Progress: ".colorize(:yellow,)
        # Display current score and attempts left to the player.
else
        attempts -= 1
        # If false decrease score counter by 1.
        puts "Incorrect Answer!".colorize(:red,)
        # If false display to the player it was the incorrect answer.
        puts "The Correct Answer: ".colorize(:green,) + question.answer
        # If false display to the player the correct answer.
        puts @name.colorize(:yellow,) + "'s ".colorize(:yellow,) + "Progress: ".colorize(:yellow,)
        puts @name.colorize(:yellow,) + "'s ".colorize(:yellow,) + "Progress: ".colorize(:yellow,)
```

## Ruby Gems

- Menu System utilised tty-prompt
- Zop also runs the following gems:
  - tty -spinner
  - colorize
  - artii

## **Error Handling**

- A validator module was run for the quiz
- Used in a while loop to continuously prevent errors

```
module Validators

def self.validate_correct_input(answer)

if answer == "a"

return true

elsif answer == "b"

return true

elsif answer == "c"

return true

elsif answer == "d"

return true

else

return false

end

end
```

```
Question: 1
Difficulty: Novice
Which of these words is slang for 'money'?
a. Dosh
b. Mush
c. Kudos
d. Hash

ff: 1
Invalid Answer!
Please enter either a,b,c,d as your answer.

1
Invalid Answer!
Please enter either a,b,c,d as your answer.

1
Invalid Answer!
Please enter either a,b,c,d as your answer.
```

## Testing

Manual testing was performed throughout the development of Zop

#### 2 Tests were run:

- Correct\_answer\_testing.rb
- Score\_attempt\_testing.rb

Both tests aided in resolving errors and led to the implementation of the validator module

### Install & Run

Have fun!

#### **Install Zop:**

./install\_zop.sh

#### Run Zop:

./run\_zop.sh

#### **Zop-Helper**

Ruby zop\_helper.rb

- -r for rules
- -i for instructions
- -d for difficulty

# Welcome to Zop Helper! Rules: Choose what level of Zop you wish to play. Each level has 30 unique questions. Answer 10 questions correctly to beat the level and progress. Answer 5 questions incorrectly and game over. Question difficulty will dramatically increase as you progress through the levels.

## Review

#### Challenges:

Seeing a plan/feature through until the end

#### Favourite Parts:

- Solving errors and issues with the code
- Showing more of my creative side
- Watching a player run through the game for the first time without errors

## GitHub

https://github.com/NJBLAGA/NathanBlaga\_T1A3