Hangman 7.0

March 14, 2023

```python
import random

# Define word categories with their corresponding difficulty levels
word_dict = {
    "Fruits": {
        "Easy": ["apple", "banana", "orange", "lemon", "pear"],
        "Medium": ["grape", "kiwi", "pear", "plum", "peach"],
        "Hard": ["watermelon", "pineapple", "mango", "dragonfruit", "papaya"]
    },
    "Animals": {
        "Easy": ["lion", "tiger", "bear", "dog", "cat", "fish"],
        "Medium": ["elephant", "giraffe", "zebra", "owl", "antelope"],
        "Hard": ["rhinoceros", "hippopotamus", "crocodile", "anaconda", "gecko"]
    },
    "Countries": {
        "Easy": ["finland", "denmark", "sweden", "usa", "canada"],
        "Medium": ["nigeria", "turkey", "ramen", "spain", "france"],
        "Hard": ["estonia", "ethiopia", "vietnam", "philippines", "tanzania",
↪"afghanistan"]
    },
    "Car Brands": {
        "Easy": ["ford", "opel", "nissan", "audi", "bmw"],
        "Medium": ["volvo", "ferrari", "mitsubishi", "mercedes", "honda",
↪"tesla"],
        "Hard": ["cadillac", "peugeot", "porsche", "volkswagen", "maserati"]
    },
}

hangman_stages = [ " ",
    """
    +---+
        |
        |
        |
       ===
    """,
    """
```

```
      +---+
      O   |
          |
          |
         ===
      """,
      """
      +---+
      O   |
      |   |
          |
         ===
      """,
      """
      +---+
      O   |
     /|   |
          |
         ===
      """,
      """
      +---+
      O   |
     /|\  |
          |
         ===
      """,
      """
      +---+
      O   |
     /|\  |
     /    |
         ===
      """,
      """
      +---+
      O   |
     /|\  |
     / \  |
         ===
      """

]

cat = ""
diff = ""
games_attempted = 0
```

```python
games_won = 0

def choose_cat():
    global cat
    print("")
    cat = input("Enter category: ")
    if cat in word_dict:
        return
    else:
        print("Please spell the category correctly and dont for get to use a␣
 ↪capital letter! " )
        choose_cat()

#Prompt the user to select a difficulty level


def choose_diff():
    global diff
    diff = input("Enter your chosen difficulty: ")
    print("")
    if diff in word_dict[cat]:
        return
    else:
        print("pls spell correkt")
        choose_diff()



def fresh_game():

    restart = input("Do you want to play again? y/n: ")

    if restart == "y":
        print("Oh by the way, you've won a total of", games_won, "games out of␣
 ↪a total of", games_attempted)
        start_game()

    elif restart == "n":
        print("Great, I hope you had a fun time! Goodluck!.... nerd")
        print("Oh by the way, you've won a total of", games_won, "games out of␣
 ↪a total of", games_attempted)

    else:
        print("plz check your spelling! Only valid choices are y or n ")
        fresh_game()



def start_game():
```

```python
    global cat
    global diff
    global games_attempted
    global games_won

    print("Choose a category:\n")
    for category in word_dict:
        print(category)

    choose_cat()

    print("")

    for diff in word_dict[cat]:
        print(diff)

    choose_diff()

    words = word_dict[cat][diff]
    word = random.choice(words)
    max_tries = 7  # set number of tries based on word length



    # Initialize game variables
    word_letters = set(word)
    used_letters = set()
    tries = 0
    display_tries = 7

    while len(word_letters) > 0 and tries < max_tries :
        # Display current status
        print("\n")
        print(" ".join([letter if letter in used_letters else "_" for letter in↵
↪word]))
        print("You have ", display_tries, "lives left! Goodluck ;)")
        # https://www.w3schools.com/python/ref_string_join.asp
        # Tried to find a way to create a string of underscoires that equal the↵
↪number of letters

    # take a gander young sir
        guess = input("Guess a letter: ").lower()
    #force a lowercase letter

    # Check if the letter has been used before
        if guess in used_letters:
```

```python
                print("You have already used that letter!")
            else:
                used_letters.add(guess)

                # Check if the letter is in the word
                if guess in word_letters:
                    word_letters.remove(guess)

                else:
                    tries += 1
                    display_tries -= 1

                    # Print the hangman stage
                    print(hangman_stages[tries])

        if len(word_letters) == 0:
            if tries == 0:
                print("WELL PLAYED YA CHEEKY BUGGER. YOU INSTANTLY GUESSED THE WORD.
    ..... Or were you just lucky? ;)))) \nThe word was indeed", word, "!!!!!!!!!!
    !!!!!")
            else :
                print("\nCongratulations! You guessed the word", word, "with only",
    tries, "wrong guesses! ")

            games_attempted +=1
            games_won +=1

        else:
            print("\nYou lost! The word was:", word, "\n...Next time try no to be a
    poopyhead! ")
            games_attempted += 1

    fresh_game()

start_game()
```

Choose a category:

Fruits
Animals
Countries
Car Brands

Enter category: Fruits

Easy
Medium

```
Hard
Enter your chosen difficulty: Medium




- - - -
You have  7 lives left! Goodluck ;)
Guess a letter: sd

    +---+
        |
        |
        |
       ===




- - - -
You have  6 lives left! Goodluck ;)
Guess a letter: sd
You have already used that letter!




- - - -
You have  6 lives left! Goodluck ;)
Guess a letter: sdf

    +---+
    O   |
        |
        |
       ===




- - - -
You have  5 lives left! Goodluck ;)
Guess a letter: dfg

    +---+
    O   |
    |   |
        |
       ===




- - - -
```

```
You have  4 lives left! Goodluck ;)
Guess a letter: dfg
You have already used that letter!




- - - -
You have  4 lives left! Goodluck ;)
Guess a letter: df

    +---+
    O   |
   /|   |
        |
      ===




- - - -
You have  3 lives left! Goodluck ;)
Guess a letter: sd
You have already used that letter!




- - - -
You have  3 lives left! Goodluck ;)
Guess a letter: sdf
You have already used that letter!




- - - -
You have  3 lives left! Goodluck ;)
Guess a letter: sd
You have already used that letter!




- - - -
You have  3 lives left! Goodluck ;)
Guess a letter: sdf
You have already used that letter!




- - - -
You have  3 lives left! Goodluck ;)
Guess a letter: sdf
You have already used that letter!




- - - -
```

```
You have  3 lives left! Goodluck ;)
Guess a letter: sdgf

    +---+
    O   |
   /|\  |
        |
       ===




- - - -
You have  2 lives left! Goodluck ;)
Guess a letter: erg

    +---+
    O   |
   /|\  |
   /    |
       ===




- - - -
You have  1 lives left! Goodluck ;)
Guess a letter: dg

    +---+
    O   |
   /|\  |
   / \  |
       ===


You lost! The word was: pear
…Next time try no to be a poopyhead!
Do you want to play again? y/n: ghf
plz check your spelling! Only valid choices are y or n
Do you want to play again? y/n: df
plz check your spelling! Only valid choices are y or n
Do you want to play again? y/n: n
Great, I hope you had a fun time! Goodluck!… nerd
Oh by the way, you've won a total of 0 games out of a total of 1
```

[ ]: