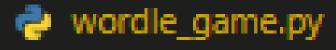
Welcome To PYWORDLE

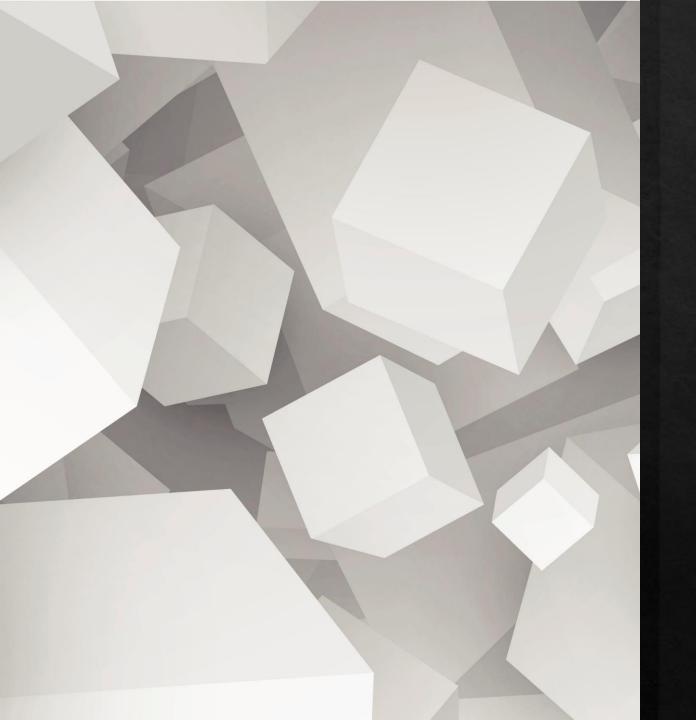
A Python Terminal Application by Callum Rowston



- wordle_logic.py
- wordle_rules.py
- wordle_settings.py
- wordle_stats.py

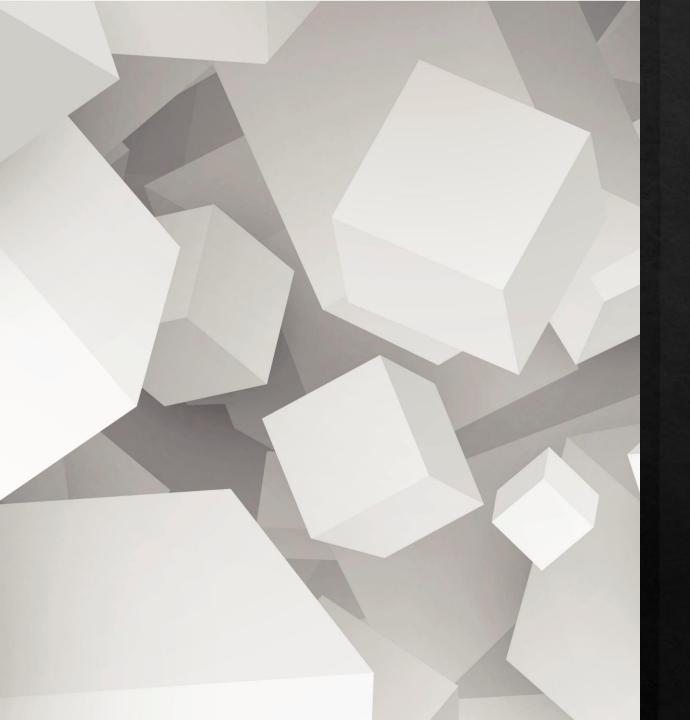
Walkthrough

- Main Menu
 - Play, Rules, Settings, Stats and Quit
- ♦ Modules
 - Modularization reflects the main menu layout
 - Separate module for game logic



Walkthrough

- Rules
 - Simple page explaining how to play
- Stats
 - Simple page displaying the user's stats
- ♦ Game Settings
 - Deeper menu allowing the user to change fundamental gameplay settings



Walkthrough

- Main Gameplay Loop
 - * Works like regular Wordle
 - User guess is coloured depending on its match to the secret word
 - Game ends when the user runs out of guesses or guesses the secret word
 - Menu prompts to play again or quit

```
self.secret word list
self.secret_word =
self.current_guess = ""
self.guess_results = []
self.guess count = 0
self.word_length = word_length
self.max guesses = max guesses
self.set secret word()
```

```
if len(user_guess) != self.word_length:
    raise WordLengthError(f" Your guess must be {self.word_length} letters long. Guess again.")
if user_guess not in self.secret_word_list:
    raise NotRealWordError(f" {user_guess} is not a valid word. Guess again.")

self.current_guess = user_guess
self.guess_count += 1
```

Code

- Main Gameplay Loop
 - WordleLogic class
 - ❖ Pick secret word
 - * Accept a valid user guess
 - Compare guess and secret word
 - * Colours the user guess depending on how it matches the secret word
 - Prints the result and prompts for another guess if the user has guesses left and hasn't correctly guessed

```
save_secret_word = self.secret_word
guess_result = ["-"] * self.word_length
for index, (guess_char, target_char) in enumerate(zip(self.current_guess, self.secret_word)):
    if guess_char == target_char:
        guess_result[index] = guess_char + "green"
        self.secret_word = self.secret_word.replace(guess_char, "-")

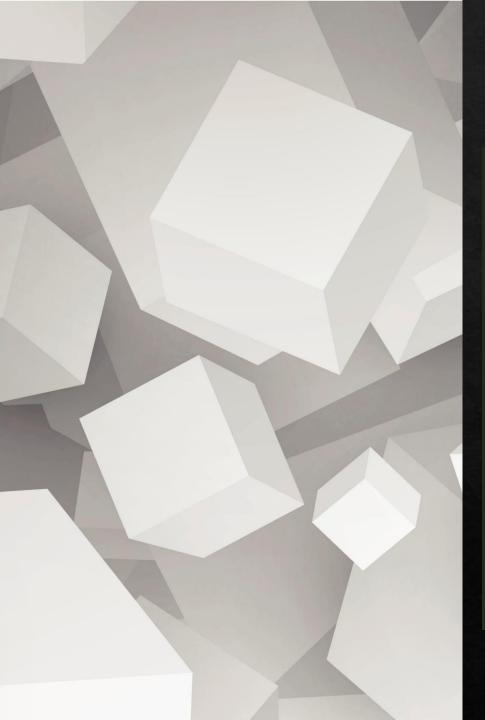
for index, (guess_char, target_char) in enumerate(zip(self.current_guess, self.secret_word)):
    if guess_char in self.secret_word and guess_result[index] == "-":
        guess_result[index] = guess_char + "yellow"
        self.secret_word = self.secret_word.replace(guess_char, "-")

for index, letter in enumerate(guess_result):
    if letter == "-":
        guess_result[index] = self.current_guess[index]

self.secret_word = save_secret_word
    return guess_result
```

Code

- Main Gameplay Loop
 - WordleLogic class
 - * Pick secret word
 - * Accept a valid user guess
 - Compare guess and secret word
 - Colour the user guess depending on how it matches the secret word
 - Prints the result and prompts for another guess if the user has guesses left and hasn't correctly guessed



Code: How WordleLogic is used

```
wordle = WordleLogic(WORD LENGTH SETTING, MAX GUESS SETTING)
print()
print(*((" ") + " _" * wordle.word_length for _ in range(wordle.max guesses)), sep='\n')
while wordle.play wordle:
   try:
       user_guess = input(f"\n\n Enter a {WORD_LENGTH_SETTING} letter word:\n ").upper()
       wordle.validate user guess(user guess)
    except (WordLengthError, NotRealWordError) as err:
        print(err)
        clear screen()
       wordle.display_colored_guess(wordle.compare_user_guess())
        if not wordle.play wordle and wordle.is default:
           wordle.add game stats()
        if wordle.user wins:
           if wordle.guess count == 1:
               print(f"\n WOW! You guessed it in 1 attempt!\n")
           else:
               print(f"\n You won in {wordle.guess count} guesses!\n")
           end menu()
        if wordle.user_loses:
           print(" You have used all your guesses. Game over!")
           print(f" The correct word was {wordle.secret_word}\n")
           end menu()
```

Thanks for listening