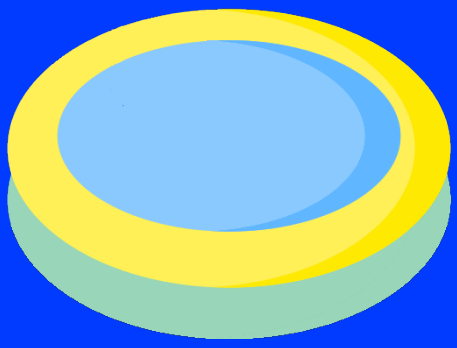
{EPITECH}

WADING POOL_

< DAY 09 />



WADING POOL

Hack The Box
In addition to the tasks below, we encourage you to discover the Hack The Box Academy. Try to go as far as possible!
Work on it as soon as you have a bit of time, or whenever you need a break in you day!

This day is dedicated to improve your hangman game.
You should reuse your previously written program or rewrite it from scratch if necessary.
You should also check out the pygame's official documentation and tutorials.

Random word

Add a filename as argument to your hangman program so that the word to be guessed is taken randomly from this file.

Each line of the file should contain one and only one word, but obviously, you should handle any unexpected file format (or missing file or whatever).

```
Terminal
$> > python3 hangman.py my_other_wordlist.txt...> python3 hangman.py my_other_wordlist.txt
...
> python3 hangman.py Error : missing argument>
```

Standard error output...

Best score

When ending a game, if the best score is broken, add a new line into a `best_scores` file with at least the date and the number of attempts.

Also write on the standard output:

```
Best ever!!! You've guessed "<word>" in <X> attempts.
```

If the best score is not beaten, write:

```
You've guessed "<word>" in <X> attempts. The record is <Y> attempts.
```

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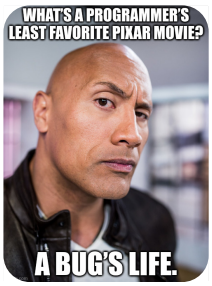
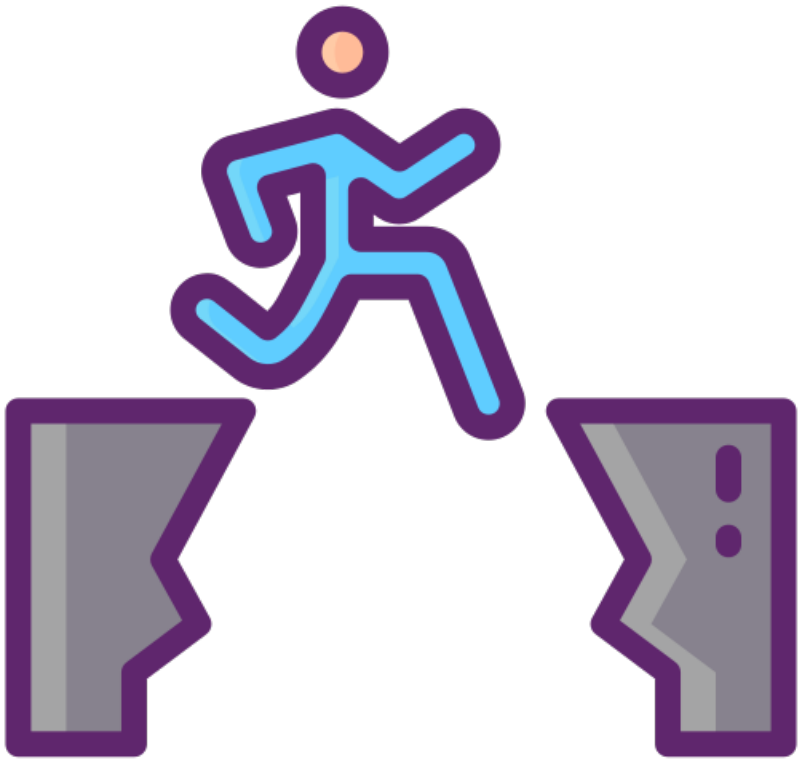
CHALLENGE

Today's challenge is focused on security. If you don't feel up to it straight away, that's normal. Come back later to try again.
You should compare your productions with others and discuss the pros and cons of each solution.
The best answers could be presented publicly.

- ✓ Try to break your program or make it crash.
- ✓ Like any user could, do some crazy dumb stuff with the program.
- ✓ Test invalid inputs, special characters, wrong types and arguments, ...
- ✓ Then, make your program unbreakable and solid as a rock.



You can also ask someone around you to try and get a bug from your program.
This is beta testing, and this phase is necessary before delivering a program.



Implement the full game

Now you have cover the basics, reuse what you've made yesterday and use what you learn today in order to implement a graphical version of your hangman game.
You can design it freely, and get inspiration from Internet.

Package your application

Turn your pygame program into a Windows executable and/or a Linux binary file.

Go further

To customize your app, add some nice and cool features, such as:

- ✓ a menu ;
- ✓ a timer ;
- ✓ a time limit ;
- ✓ a live score ;
- ✓ a life bar ;
- ✓ a leaderboard with the best scores ;
- ✓ some levels of difficulty based on words lists ;
- ✓ an ai engine to help you solve the game ;
- ✓ anything fun and/or valuable.

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