

BONUS

Sommaire

- [I - ASCII-ART](#)
- [II - Start and Stop](#)
- [III - Hard Mode](#)

hangman-ascii-art

Objectives

You must follow the same [principle]<https://lyon-ynov-campus.github.io/YTrack/subjects/hangman/hangman-classic/>) as the first subject.

Ascii-art is a program which consists in receiving a string in the standar input and outputting the string in a graphic representation using ASCII. **Time to write big !!**.

What we mean by a graphic representation using ASCII, is to write the string received using ASCII characters, as you can see in the example below:

```
 _   _   _   _   _   _   _
| | | | | | | | | | | | | |
|_|_|_|_|_|_|_|_|_|_|_|_|_|
|_|_|_|_|_|_|_|_|_|_|_|_|_|
|_|_|_|_|_|_|_|_|_|_|_|_|_|
|_|_|_|_|_|_|_|_|_|_|_|_|_|
```

Instructions

- Your project must be written in Go.
- This project should display letters in ASCII-Art from those [following files](#)
 - First you need to pass the file in argument containing the ascii letters as argument to your program (see example below).
 - You will then need to parse this file.
- You are free to design your own letter file !
- The code must respect the [good practices](#).

Allowed packages

- Only the [Standard Go](#) packages are allowed.

Usage

```
./hangman words.txt --letterFile standard.txt
```

Good luck you have 10 attempts !

```
 _
| |
| | _
```

_ \		/ _ \
		()
_		_ /
_____	_____	_____
_____	_____	_____

Choose: E

-		
_		_____
_ \	/ _ \	
_ /		/ _ \
_	_	()
	_ /	_ /
_____	_____	
_____	_____	

Choose: A

Not present in the word, 9 attempts remaining

-		
_		_____
_ \	/ _ \	
_ /		/ _ \
_	_	()
	_ /	_ /
_____	_____	
_____	_____	

=====

Choose: L

-		-	-
_			_____
_ \	/ _ \		/ _ \
_ /	()		
_	_	_	_
	_ /	_ /	_ /

=====

Congrats !

This project will help you learn about :

- The Go file system(fs) API
- Ascii code manipulation
- Data manipulation

hangman-start-and-stop

Notions

- [Golang Documentation: json](#)
- [Json encoding/decoding](#)
- [Golang Documentation: ioutil](#)
- [Read/Write file golang](#)
- [Go example: os Arg](#)
- [\[Golang Documentation: flag\] \(https://pkg.go.dev/flag\)](https://pkg.go.dev/flag)

Objectives

You must follow the same [principles](#) as the first subject.

In hangman-start-and-stop have to create a way to stop the game and save the progress and restart at anytime to the point where you left the game.

You must:

- Implement a keyword `STOP` in the standard input.
 - It will stop and exit the game.
 - It will save the status of the game in a file `save.txt` . The data in the file must be encoded with `json.Marshal`
- Handle a **flag** `--startWith save.txt` in the command line, that allow you to launch the game with the file you saved with `STOP` command. The file will be decoded with `json.Unmarshal`

This project will help you learn about:

- Json format
- Encoding/Decoding structure to Json format
- Reading and Writing in files
- Argument handling in the command line

Allowed packages

- Only the [standard go](#) packages are allowed

Usage

```
$> ./hangman words.txt
Good Luck, you have 10 attempts.
_ _ _ _ 0

Choose: E
_ E _ _ 0

Choose: A
Not present in the word, 9 attempts remaining

=====

Choose: STOP

Game Saved in save.txt.
```

```
$> ./hangman --startWith save.txt
Welcome Back, you have 9 attempts remaining.
_ E _ _ 0

Choose: L
_ E L L 0

Choose: B
Not present in the word, 8 attempts remaining

|
|
|
|
|
=====

Choose: H
H E L L O

Congrats !
```

Instructions

- The code must respect the [good practices](#).
- We suggest you to search for the principles of a good website design.

Hard Mode

Objectives

You must follow the same [principles](#) as the first subject.

In hard-mode you have to create an harder mode for hangman.

You must:

- Implement a **flag** `--hard` that make the game harder :
 - Change the number of letter revealed at the beggining of the game `len(word) / 3 - 1`
 - Do not display the letter already use by the user (-1 points if a letter is reused)
 - You can submit only 3 vowels (-1 points if a vowels already submitted or the limit of 3 already reached)

Allowed packages

- Only the [standard go](#) packages are allowed