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**Matlab Mavericks Report**

Hangman

How to play

1. Create a folder named *‘Hangman’*.
2. Download all the files into the folder *‘Hangman’.*
3. Open MATLAB and then add the file to the path on MATLAB.
4. Open the *‘wordgame.m’* and *‘hangman.m’* files and then save them with the names of each of the functions.
5. Type *‘wordgame’* in the command window to initialise the game.
6. Follow the instructions displayed and enjoy!

Motivations

When our group first got together, one of the first things we agreed on was that we wanted to create a game. We quickly decided that the game would be more along the lines of a retro game such as battleships or mine sweeper. After doing a bit of research we set our goals on Hangman. We chose this game as we saw it challenging to code, but simple enough respective to our MATLAB abilities. In addition, as technology continues to revolutionise traditional games, we wanted to bring Hangman into the 21st century, with no need for pen and paper! This 21st century vision is furthered by our social media aspect. With twitter, we can create a hangman community, facilitating interaction between players.

Challenges

1. Twitter doesn’t allow repetitive tweeting from the same account.
2. If you have the function twit.m, it would tweet out the messages in that function, instead of our message.
3. We struggled with the PNG imaging, however found a command that made it easy.
4. Initially the same word came up every time, so we expanded word bank and randomised it.
5. Make the tweet more specific if you win or lose, what level you got and ur twitter username.

Results

It works! We have a game that is simple and straightforward, no knowledge of MATLAB needed to use the game, making it more accessible to everyone. It clearly shows you how many letters the word is, if your letter was wrong (PNG image) or right (letter appears instead of the asterisk) and how many lives you have left. Then if you win, you get a congratulations and if not you can simply enter the command ‘wordgame’ and play again, with new lives etc. In addition, a tweet is successfully sent on the twitter account when a player plays the game. Everyone who has used it has had no problems.