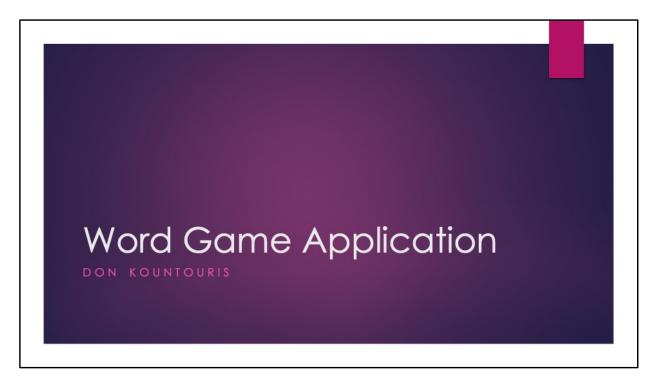
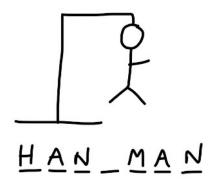


- I thought this was a very good assignment for students.
- It was challenging, lots of work & forced me to work efficiently.
- Time management was a factor while learning how to execute new concepts that made stressful but in a good way. And although I felt like I was way out of my depth at the start of the assignment, it wasn't lone before pieces of the puzzle started to all make sense.

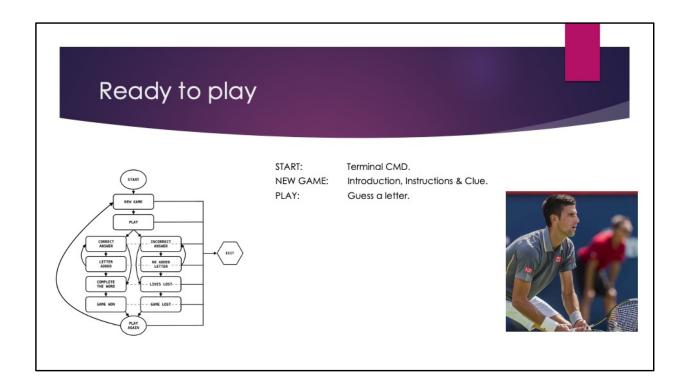


- Looking over the assignment I immediately thought I would choose a game of some kind with either words or numbers.
- I wanted it to be simple, given my ability and time restraints. So I chose something I'm always buying for my parents and that is word puzzels.

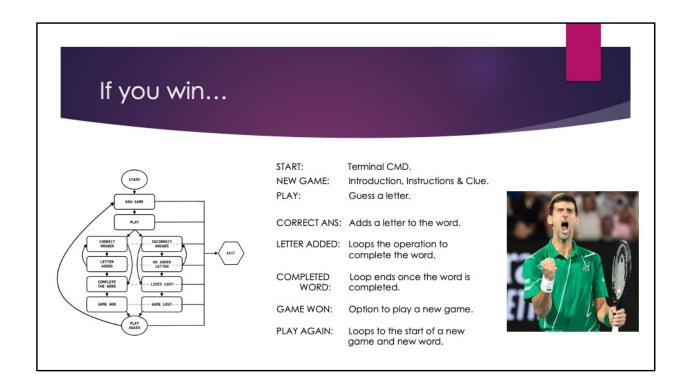
How to play HANGMAN



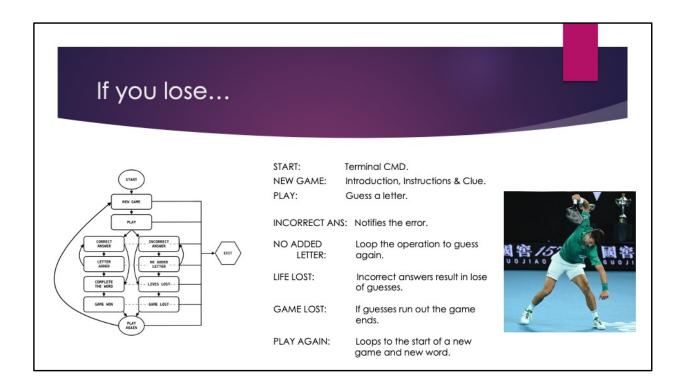
- Hangman is a word game to find missing letters that complete a word.
- · Blank space represent missing letters.
- With the aid of a clue, players begin by guessing a letter.
- · Correct guesses fill in the blank spaces.
- Incorrect guesses lose players lives.
- Solve the puzzle before the hangman dies.
- So, I chose... HANGMAN.
- If you don't know how to play hangman:
 - 1. There is a series of blank spaces that represents a mystery word.
 - 2. One at a time, you need to guess each letter of the word and fill-in the blanks.
 - 3. If you guess wrong a section of the hangman is drawn. Usually a line.
 - 4. The aim is to guess the word and save the hangman by not completing the drawing so he doesn't get hanged.



- Planning how I was going to create this app was fairly straight forward.
- Once we initiate the game, there needs to be some sort of introduction, a set of brief instructions and a clue or a phrase that helps the player guess the word.
- Then, the player begins playing the game and guessing letters.
- And from here, the game obviously branches into to paths: you either win or you lose.



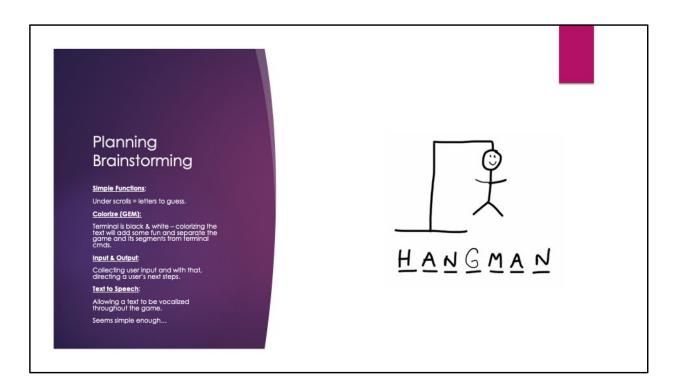
- If you win (following the left hand side of the chart).
- Correct answers fill in the blanks.
- You complete the word.
- And you win the game.



- If you lose (following the right hand side of the chart).
- Incorrect answers don't fill in the blanks.
- You lose a game life (which you have 6).
- And if you run out of lives, you lose the game.
- It's important to note that an option to exit the game, particularly if you're terrible at word games, exists at any point and time.



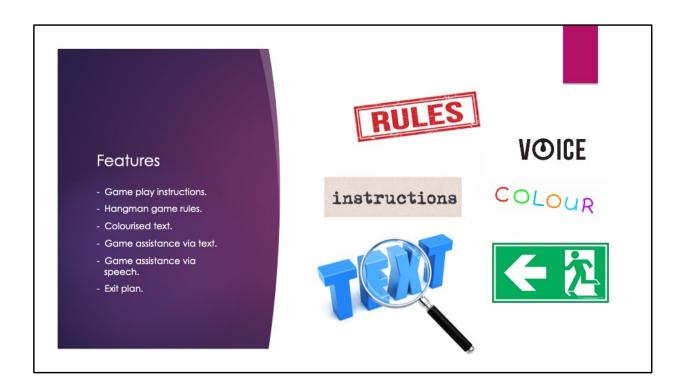
- As I said before, I chose a simple game to make this assignment easy for me.
- After all, Hangman is a very simple game.
- But was it so simple to create...?



- Some initial ideas that I had were...
- Having under-scrolled lines for blank spaces.
- Terminal can appear a little monotonous so to jazz things up, I thought adding colour to text would be good (which may satisfy the requirement of adding a Ruby Gem).
- There needs to be a lot of input and out put (which is always fun to create).
- And another element to spice things up in the Terminal could be to add tts aka Text to Speech. So there is a greater interactive experience in the game (is that a Ruby Gem - not sure yet, we'll see...).



- The no-brainers are:
- Variables.
- Conditionals.
- Arrays.
- and Loops.
- which are obvious necessities for the game.



- The features for this game are...
- Instructions on how to play the game and direct the player as to what they need to do next or the outcome of their actions and answers.
- A clear & concise set of rules to follow.
- Colourised text.
- Text to speech (like a game show host).
- and if you chicken out... an exit plan.



 Requirements for the assignment such as DRY, keeping a consistent style of code, comments and tests will all be included in my submission along with the source code.



- Now let's take a look at how we play the game.
- Once we start the game, there is a welcome note and a clue as to how many letters exist in the mystery word.
- Below that, there is also instruction on how to exit the game at any time.
- We can then see a number of under scrolls indicating the missing letters that we will need to guess.
- And a second clue that is a phrase.
- Then there's an invitation to guess a letter.
- Both colours and bold text separate the game text from the normal Terminal text.



- If we enter a correct letter, the game tells us (in green) that we are correct.
- It fills in the empty space with our correct guess.
- And invites us to enter another letter.



- If we enter an incorrect letter, the game notifies us (in red) that we are wrong.
- And we lose a life.
- So, we go from starting with 6 lives down to 5.
- Again, we are asked to guess another letter.



- If we enter two letters at once, the game notifies us (in red) that we are not allowed to do something like that.
- No letters are recorded, either correct or incorrect.
- And no lives are lost.



- If we win the game, the word is completed and we are congratulated by the game.
- And obviously the opposite happens if we lose the game.



- Problems:

- 1. a tts Gem didn't happen. The reason for this, and to be quite honest, it appeared a complicated addition when the code for this app is very simple. I did not want to risk DRY or deviating from the simplistic theme of the code – and I was able to add it without a Gem keeping it all simple.
- 2. I found it hard to find particular colors when using the color Gem.
- 3. I wasn't able to loop the end of the game back to the start, without it going to a Terminal cmd out of the game.
- 4. If you hit enter without a letter, the game returns with a correct answer. But no letter is added.



- 5. Upper case letters are not recognised by the game, only lowercase letters.
- 6. I would love to have an evolving picture of a hanged man corresponding to the guesses in the game.
- 7. When given only 1 life left, the game states it as plural and not singular.



Now let's have a look at the game in action.

