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| Item | Type | Format | Description | Example | Validation |
| clock | pygame.time.clock |  | Clock to control the loop rate |  |  |
| loopRate | integer | nn | Sets the maximum loop rate | 60 | n/a |
| SCREENWIDTH | integer | nnn | Width of the playing screen in pixels | 768 |  |
| SCREENHEIGHT | integer | nnnn | Height of the playing screen in pixels | 1024 |  |
| SCREENSIZE | array of integers | [nn,nn] | Holds variables SCREENWIDTH and SCREENHEIGHT |  |  |
| screen | pygame.display |  | Display screen for the main game |  |  |
| DEFAULT\_TEXT\_SIZE | integer | nn | Default size of text in pixels when rendering for display | 48 |  |
| white | array of integers | [rrr,ggg,bbb] | Define the colour white in RBG 256 format | [255,255,255] | Integers must be between 0 and 255 |

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| Item | Type | Format | Description | Example | Validation |
| hangArray | array | [“”” ……..  “””] | Hold the text picture of hangman |  | Equals attempts |
| inputFile | open() | open(‘aaaaaa’, ‘r’) | Opens the file Wordlists.txt |  |  |
| outputText | .read() | aaaaa.read() | Reads the file opened in inputFile | inputFile.read() | print(outputText) prints the words in the file |
| lineChoice | integer | n | States the line to be read | 1 |  |
| wordChoice | random.randint() | random.randint(n,nn) | Choses what words to be read in the line | 2,31 |  |
| levelInput | input | “……… “ | Welcomes the player and asks them to choose a level |  |  |
| level | .lower | “aaaaa” | Lowers the case of letters to appease case sensitivity | AAAA to aaaa | All letters are in lower case |
| wordArray | array | [aaaa…,aaaa…] | List of words to choose from | [fish,leap,seen] |  |
| word | random.choice |  | Chooses random word from wordArray | [fish,leap,seen]  To “fish” | Word is in wordArray |
| letterDisplay | array | [] | Starts variable for display of the letters guessed | [a,e,b,h,r] | guess is in letterDisplay |
| letterUsed | array | [] | Start variable to hold letters that have been used to then add it to letterDisplay | [a] | Guess is in letterUsed |
| endWord | array | [] | Starts variable for what has been guessed so far in the word | [\_ \_ \_ \_ \_ \_] |  |
| attempts | integer | n | Sets a number of attempts the player has | 8 |  |
| blank | string | “ ” | Puts in a space in the display | “” |  |
| guess | Input string | input() | Gets the players guess |  |  |
| letterDisplay | .join() | [a,a,a,a] | Shows the player what letters have been used | [a,b,c,d] |  |
| end | Input string | input() | Asks the player if they want to end the game |  |  |