

The strategy can be summarized as follows:

1. Initial Filtering (initialFilter):

- This function filters the wordlist based on known correct letters, their positions, almost correct (yellow) letters, and previous guesses.
- It ensures that selected words contain the correct letters in the correct positions and do not include letters that have been guessed before.
- This step helps narrow down the word choices to those that match the current feedback.

2. Secondary Filtering (secondaryFilter):

- The secondary filtering function further refines the wordlist by checking for letters that only appear once in the word but have been guessed twice.
- It also checks that there are no incorrect repeated letters in the word.
- This step aims to eliminate words that have inconsistent letter counts and helps in making more precise guesses.

3. Guessing Logic (makeguess):

- The main guessing function utilizes the results of the filtering steps to make a guess.
- It starts with predefined words for the first few guesses. (SPARE, CLOUD, THINK)
- For subsequent guesses, it tracks correct, almost correct, and used letters, and then applies the filtering functions to the wordlist.
- Before filtering, if the dictionary containing the correct letters has a length of 5, the AI orders the letters and returns the correct word
- If the filtered wordlist is not empty, the AI randomly selects a word from it. Otherwise, it falls back to choosing from the initial filter.