

Report

By: Team 3

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- `build_kb`: predicate that asks for input words in the form of `word(Name,Category)`.
- `Is_category(C)`: predicate that checks the validation of category C.
- `categories(L)`: predicate that is true if the categories in list L are all available categories in the knowledge base.
- `available_length(L)`: predicate that is true if L is a valid length of a word in the knowledge base.
- `pick_word(W,L,C)`: a predicate that is true if the word W has a length L and of category C.
- `correct_letters(L1,L2,L3)`: a predicate that is true if list L3 is the common letters between L1 and L2 (the letters in the input word L2 which are found in the picked word L2).
- `correct_positions(L1,L2,L3)`:): a predicate that is true if list L3 is the common letters in same position between L1 and L2 (the letters in the input word L2 which are found in the picked word L2 at same position).
- `choose_category(Y)`: a predicate that asks the user to choose a category from the available categories given from `(categories(L))`.
- `correct_length(L,C)`: similar as `available_length(L)`, but checks if there is a word of length L available in category C.

- `choose_length(Length,Category)`: a predicate that asks the user to input a length `Length` from category `Category`.
- `pick_one(X,L,C)`: a predicate that picks only 1 random word `W` of Length `L` and Category `C`.
- `randomize(List,Word)`: helper method for `pick_one`.
- `case(W,Length,Guesses)`: a predicate that runs the 4 situations of winning, losing, retrying different word, or re_entering another word of correct length.
- `win_lose(X,W,Guesses)`: a predicate that is true in 2 cases first when the input word `X` is the same as the picked word `W` where there are still remaining guesses, the second case when the user is out of guesses and still didn't manage to input the correct word `W`.(helper predicate for the predicate 'case').
- `game`: a predicate that runs the game phase itself where the user starts choosing the category and length and start guessing.
- `main`: a predicate that contains the building and game phase together so that when calling is the gameplay starts.

Win situation

Welcome to Pro-Wordle!

Please enter a word and its category on separate lines:

|: meat.

|: food.

Please enter a word and its category on separate lines:

|: chicken.

|: food.

Please enter a word and its category on separate lines:

|: bread.

|: food.

Please enter a word and its category on separate lines:

|: horse.

|: animals.

Please enter a word and its category on separate lines:

|: ball.

|: things.

Please enter a word and its category on separate lines:

|: chair.

|: things.

Please enter a word and its category on separate lines:

Please enter a word and its category on separate lines:

|: watches.

|: things.

Please enter a word and its category on separate lines:

|: panda.

|: animals.

Please enter a word and its category on separate lines:

|: bison.

|: animals.

Please enter a word and its category on separate lines:

|: balls.

|: things.

Please enter a word and its category on separate lines:

|: birds.

|: animals.

Please enter a word and its category on separate lines:

|: hands.

|: things.

Activate Windows
Go to Settings to activate Windows.

Please enter a word and its category on separate lines:

|: done.

The available categories are: [animals,food,things]

Choose a category:

|: food.

Choose a length.

|: 3.

There are no words of this length.

Choose a length.

|: 7.

Game started. You have 8 guesses

Enter a word composed of 7 letters:

|: meat.

Word is not composed of 5 letters. Try again.

Remaining guesses are 8

Enter a word composed of 7 letters:

|: watches.

Correct letters are [c,h,e]

Correct letters in correct positions are:[c,e]

Activate Windows
Go to Settings to activate Windows.

There are no words of this length.

Choose a length.

|: 7.

Game started. You have 8 guesses

Enter a word composed of 7 letters:

|: meat.

Word is not composed of 5 letters. Try again.

Remaining guesses are 8

Enter a word composed of 7 letters:

|: watches.

Correct letters are [c,h,e]

Correct letters in correct positions are:[c,e]

Remaining guesses are 7

Enter a word composed of 7 letters:

|: chicken.

You win!

true .

Activate Windows
Go to Settings to activate Window

Lose situation

The available categories are: [animals,food,things]

Choose a category:

|: drinks.

This category does not exist.

Choose a category:

|: animals.

Choose a length.

|: 9.

There are no words of this length.

Choose a length.

|: 3.

There are no words of this length.

Choose a length.

|: 5.

Game started. You have 6 guesses

Enter a word composed of 5 letters:

|: panda.

Correct letters are []

|: panda.

Correct letters are []

Correct letters in correct positions are:[]

Remaining guesses are 5

Enter a word composed of 5 letters:

|: bison.

Correct letters are [s,o]

Correct letters in correct positions are:[]

Remaining guesses are 4

Enter a word composed of 5 letters:

|: chair.

Correct letters are [h,r]

Correct letters in correct positions are:[]

Remaining guesses are 3

Enter a word composed of 5 letters:

|: hands.

Correct letters are [h,s]

Correct letters in correct positions are:[h]

Remaining guesses are 2

Enter a word composed of 5 letters:

Activate Windows
Go to Settings to activate Windows.

Activate Windows
Go to Settings to activate Windows.

Enter a word composed of 5 letters:

|: balls.

Correct letters are [s]

Correct letters in correct positions are:[]

Remaining guesses are 1

Enter a word composed of 5 letters:

|: birds.

You lose!

true .