

# GUI of Python

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## Introduction



Python is a programming language. We can do many things with Python. For example, making calculators, making dictionaries, and so on. I want to make a GUI that helps me.

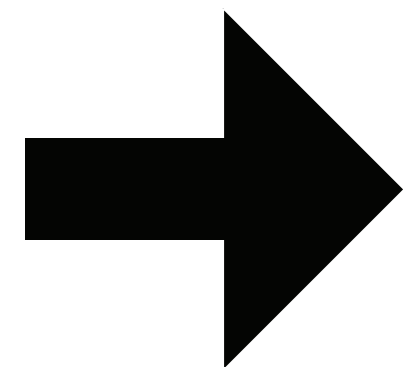
## Purpose

- To make a GUI that can help me study.
- To understand what can be done about Python.
- To make a dictionary that can remember new words.

## Method

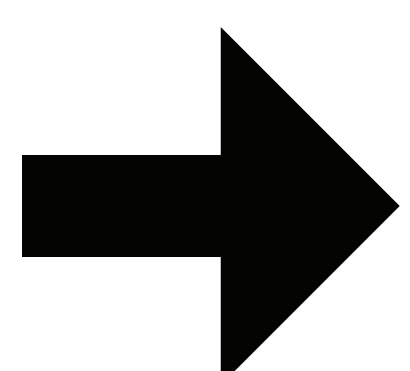
IDLE(Python3.8 32-bit)

This code is reading word information.

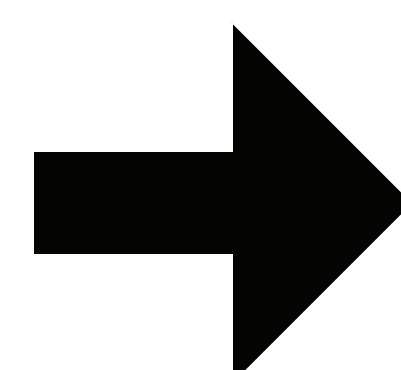
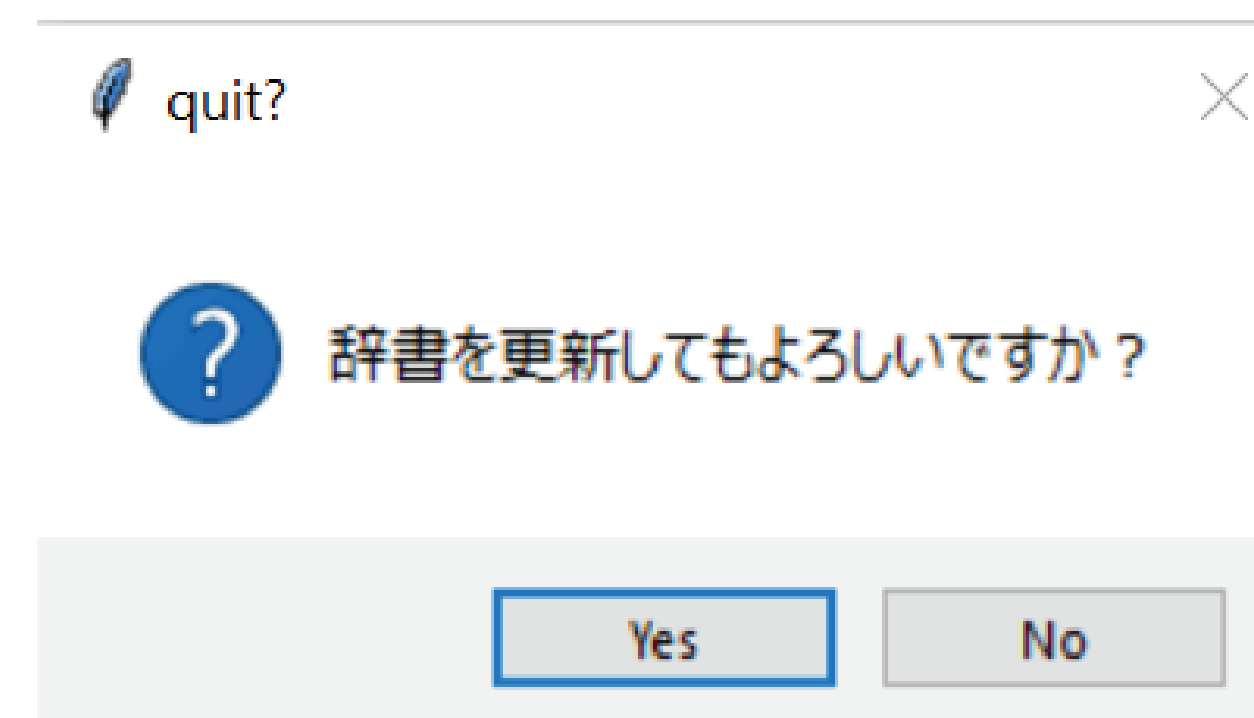


```
def __load_words(self):
    with open('英語辞書2.txt', 'r', encoding = 'utf_8') as file:
        lines = file.readlines()
        new_lines = []
        for line in lines:
            line = line.rstrip('\n')
            if (line!=''):
                new_lines.append(line)
        separate = []
        for line in new_lines:
            sp = line.split('\t')
            separate.append(sp)
        self.__words = dict(separate)
    def save(self):
        write_lines = []
        for key, val in self.words.items():
            write_lines.append(key + '\t' + val + '\n')
        write_lines.sort()
        with open('英語辞書2.txt', 'r', 'w', encoding = 'utf_8') as f:
            f.writelines(write_lines)
    def get_words(self):
        return self.__words
    def set_wordst(self, words):
        self.__words = words
    words = property(get_words, set_wordst)
```

This code is memorizing data.



This code is indicating the window when you click the close button.



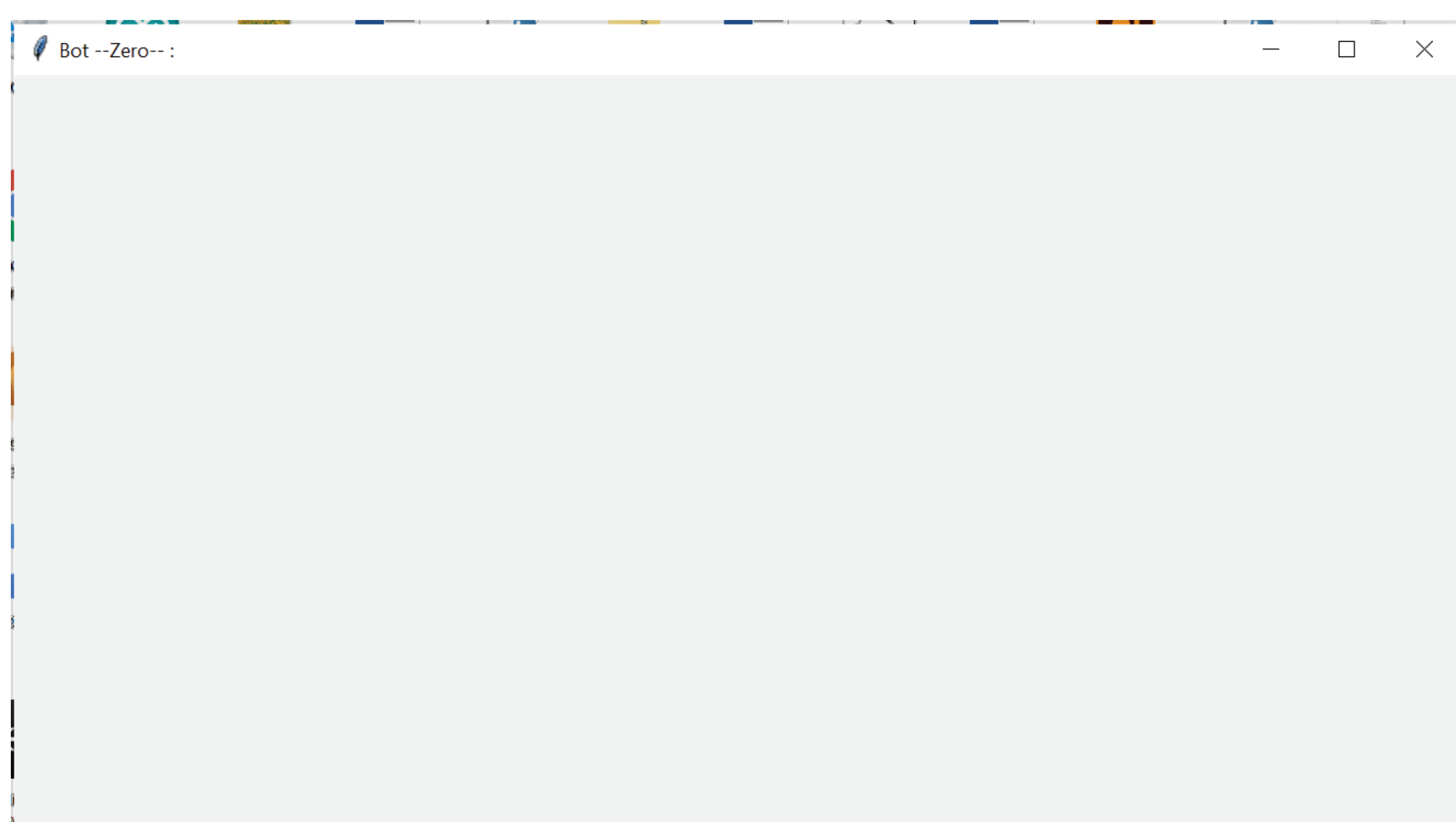
```
def run():
    global entry, response_area, action
    root = tk.Tk()
    root.geometry('880x460')
    root.title('Bot --Zero-- :')
    font=('Helvetica', 14)
    def callback():
        """終了時の処理"""
        if tkinter.messagebox.askyesno(
            'quit?', '辞書を更新してもよろしいですか?'):
            Zero.save()
            root.destroy()
        else:
            root.destroy()
```

If you click the yes button, the dictionary memorizes new words. If you click the no button, the dictionary doesn't memorize new words.

To study about Python with books and the internet. To type the code and make a dictionary. The program can remember new words if we teach it. Next, to decide the size of the picture, and make an area that if it is clicked, the program will function. Finally, to make a system in which the program will repeat. I worked out a program that can remember new words.

## Results

The system couldn't work well. It doesn't indicate anything.



## Discussion

Why did the system not work well?  
I think that the code is wrong or the connecting code is wrong. I want to fix those things in the future.

## Things to be improved

To fix the system error.

To add new functions. For example, calculator, other subject dictionaries, and so on.

To make the code easier to understand and to decrease the number of errors.

To check the spelling.

## References

はじめての簡単PythonAIプログラミング  
python.org