How-To document for external widgets

.place() - placing widgets

The **.place()** function is a great alternative to placing widgets. Inside the brackets, there are x and y coordinates that correspond to the window. An example can be provided below:

```
lbl.place(x=20,y=100)
```

The window will look like this:

```
1   from tkinter import *
2
3   window = Tk()
4   window.title("Welcome")
5   window.geometry("500x500")
6
7   lbl = Label(window, text="Hello")
8   lbl.place(x=20,y=100)
9
10  window.mainloop()
```

Which will result in this:
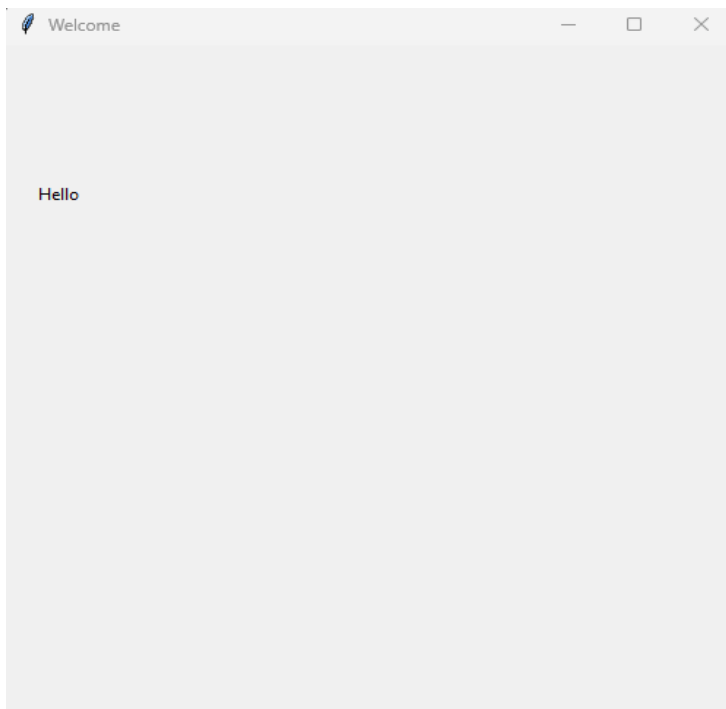
.destroy() - closing a window

The **.destroy()** function will close the window and stop the program. It is useful if you are using a quit button in your function. An example can be provided below:

```
7  def quited():
8      window.destroy()
```

The entire program will look like this:

```
1  from tkinter import *
2
3  window = Tk()
4  window.title("Welcome")
5  window.geometry("350x200")
6
7  def quited():
8      window.destroy()
9
10 quit_btn = Button(window, text="quit", command=quited)
11 quit_btn.place(x=100,y=100)
12
13 window.mainloop()
```

.bind() - binding a key

The .bind() key can be used to bind a key on your keyboard. Inside the brackets, the <> can be used to put whatever key you would like to bind. An example can be shown below:

```
entry.bind("<Return>", checked)
```

The <Return> key is the enter key, so when the enter key is pressed, it will act as clicked.

HEX Codes - A new way of color coding

Rather than using simple names for colors, there is a better and more efficient way to use a color. A 6 symbol combination can be used. For example, "#000000" is black, and '#fff' is white. This way, there

are many colors to choose from. The following link can be used to pick a color and pick the corresponding HEX code. The following hex code is found in the code that was used for the POTC game:

```
bg="#F4D499")
```

References:

.destroy() -
https://www.tutorialspoint.com/how-do-i-close-a-tkinter-window#:~:text=Creating%20an%20application%20using%20tkinter,method%20to%20close%20the%20window.

.place() -
https://www.tutorialspoint.com/python/tk_place.htm

.bind() -

https://python-course.eu/tkinter/events-and-binds-in-tkinter.php

- HEX codes
    - https://www.tutorialspoint.com/python/tk_colors.htm