

- 1 GUI
- 2 Games?
- 3 Retrospect
- 4 Self Assessment
- 5 Problems

# Easy Gui

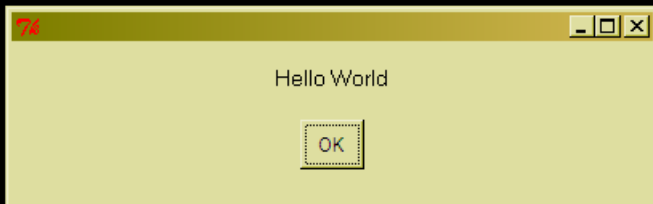
- Runs in Windows
- `http://easygui.sourceforge.net`

The Book : Hello World (All programs from there)

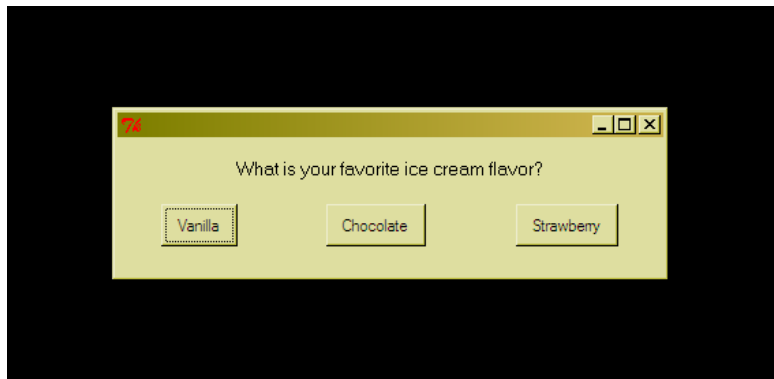
IDLE 2.6.2

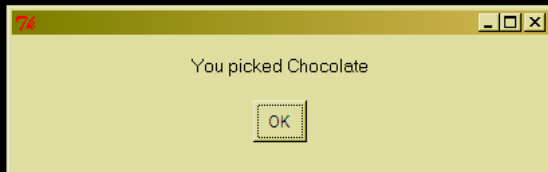
```
>>> import easygui
```

```
>>> easygui.msgbox("Hello World")
```

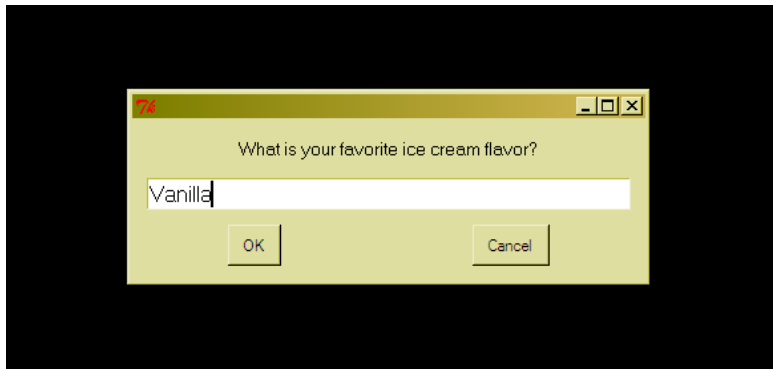


```
1
2
3 import easygui
4 flavor = easygui.buttonbox("What is your favorite
5                               ice cream flavor?",
6 choicess = ('Vanilla', 'Chocolate', 'Strawberry')
7 easygui.msgbox ("You picked " + flavor)
```





```
1
2
3 import easygui
4 flavor = easygui.enterbox("What is your favorite
5                             ice cream flavor?",
6                             default = 'Vanilla')
7 easygui.msgbox ("You entered " + flavor)
```



```
1 import random, easygui
2
3 secret = random.randint(1, 99)
4 guess = 0
5 tries = 0
6
7 easygui.msgbox("""I have a secret!
8                 It is a number from 1 to 99.
9                 I'll give you 6 tries.""")
10
11 while guess != secret and tries < 6:
12     guess = easygui.integerbox("guess?")
13     if not guess: break
14     if guess < secret:
15         easygui.msgbox(str(guess) + " too low!")
16     elif guess > secret:
17         easygui.msgbox(str(guess) + " too high!")
18     tries = tries + 1
```

```
19
20 if guess == secret:
21     easygui.msgbox("got it!")
22 else:
23     easygui.msgbox("No more guesses!")
```



# Games with PyGame

- Use pygame
- [pygame.org](http://pygame.org)

# What did we do?

- Basic Data Types, Operators
- Control Structures
- Collection Types
- Classes / Objects, Anonymous Classes
- Modules, Importing them
- Basic IO, Files
- Lambda Functions, Other Functional Programming tools
- Regular Expressions
- URLs and HTTP, XML/HTML Parsing

# What did we do?

- Crawler, TF-IDFs, Shelves
- Iterators, Generators
- Socket Programming
- ZKP
- Pickles
- Threads, Pipes
- Decorators, Descriptors
- Static Variables/Functions
- GUI (a little bit)

# Some Questions and Self Evaluation

I have some questions here. Please write down the answers and give it back.

The points for each question is  $2^n$  for some  $n$ .

If the solution is perfect

You get all the marks.

If the solution is MOL fine

You get  $2^n - 2^{n-2}$

If the solution is barely ok

You get  $2^n - 2^{n-1}$

If you can look it up in 10 mins

You get  $2^n - 2^{n-1} - 2^{n-2}$

Otherwise

You know math. ;) )

# Problems

Finish the ones which are to be done.