


# Solution 4: Message GUI



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 Message Board

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Paul: Watching Starwars for the first time!  
Ann: Darth Vader is Luke's father.  
Paul: Nooooooooooooo!  
Rick: !!SPOILER ALERT!!

Filter:

Sender:

Message:

```
import tkinter
from tkinter import ttk

import corkboard

board = corkboard.CorkBoard()
corkboard.make_example_data(board)

def post_message():
    print("POST MESSAGE")
    mes = corkboard.Message(text_sender.get(),text_message.get(),"TODO NOW")
    board.post_message(mes)
    refresh()

def refresh():
    senders = text_from.get().split(',')
    messages.configure(state="normal")
    messages.delete('1.0', tkinter.END)
    for ms in board.get_messages_from(senders):
        messages.insert(tkinter.END, str(ms)+"\n")
    messages.configure(state="disabled")

def clear():
    board.clear()
    refresh()
```

```
top = tkinter.Tk()

messages = tkinter.Text(top, height=10, width=70)
messages.pack(fill=tkinter.BOTH, expand=1)

row1 = tkinter.Frame(top)

lab_show = ttk.Label(row1, text="Show from", width=10, anchor=tkinter.E)

lab_show.pack(side=tkinter.LEFT)

text_from = ttk.Entry(row1)
text_from.pack(side=tkinter.LEFT, fill=tkinter.X, expand=1)

bt_clear = ttk.Button(row1, text="Clear", command=clear)
bt_clear.pack(side=tkinter.RIGHT)

bt_refresh = ttk.Button(row1, text="Refresh", command=refresh)
bt_refresh.pack(side=tkinter.RIGHT)

row1.pack(fill=tkinter.X)

row2 = tkinter.Frame(top)

lab_sender = ttk.Label(row2, text="Sender", width=10, anchor=tkinter.E)
lab_sender.pack(side=tkinter.LEFT)
```

```
text_sender = ttk.Entry(row2)
text_sender.pack(side=tkinter.LEFT)

lab_message = ttk.Label(row2, text="Message")
lab_message.pack(side=tkinter.LEFT)

text_message = ttk.Entry(row2)
text_message.pack(side=tkinter.LEFT, fill=tkinter.X, expand=1)

bt_post = ttk.Button(row2, text="Post", command=post_message)
bt_post.pack(side=tkinter.LEFT)

row2.pack(fill=tkinter.X)

refresh()

top.mainloop()
```