



MVC

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HEAD-Ex Logística e Transporte



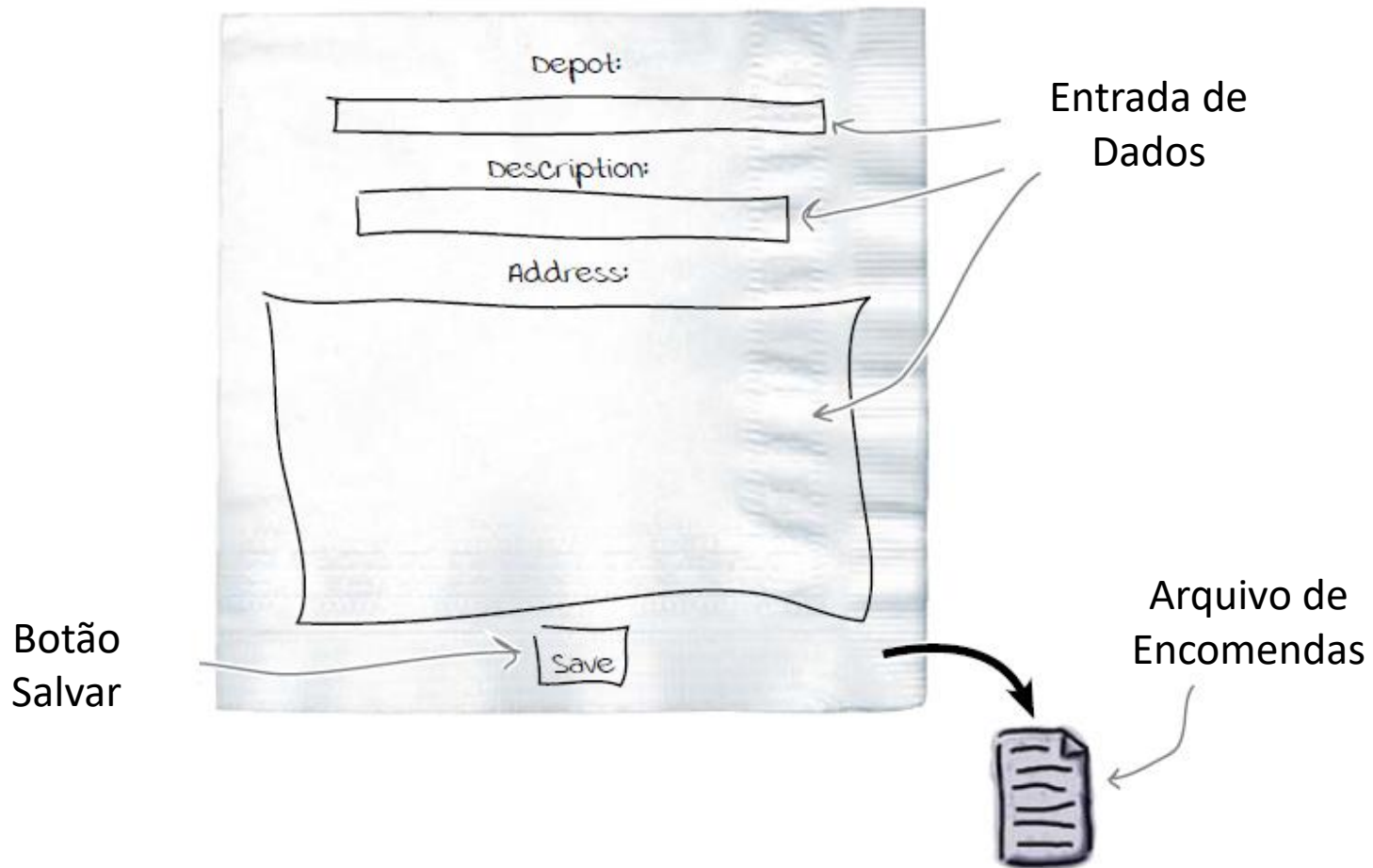
Head-Ex employee →



BDR ajudando
a Logística!



HEAD-Ex Logística e Transporte



HEAD-Ex Logística e Transporte

```
def salvar_dados() :  
    f = open('encomenda.txt', 'a')  
    f.write('Destino: ')  
    f.write(f'{destino.get()} \n')  
    f.write('Descrição: ')  
    f.write(f'{descrição.get()} \n')  
    f.write('Endereço: ')  
    f.write(f'{endereço.get("1.0", END)} \n')  
    destino.delete(0, END)  
    descrição.delete(0, END)  
    endereço.delete('1.0', END)  
    f.close()
```

HEAD-Ex Logística e Transporte

```
from tkinter import *

app = Tk()
app.title('Head-Ex Logística e Transportes')
app.geometry("250x180+200+100")

Label(app, text = "Destino: ").pack()
destino = Entry(app)
destino.pack()

Label(app, text = "Descrição: ").pack()
descricao = Entry(app)
descricao.pack()

Label(app, text = "Endereço: ").pack()
endereco = Text(app)
endereco.pack()

Button(app, text = "Salvar", command = salvar_dados).pack()
app.mainloop()
```

HEAD-Ex Logística e Transporte

Acho que essas
encomendas são para
outra cidade. Aceita um
chá?



Cambridge de Massachusetts
diferente de
Cambridge da Inglaterra



HEAD-Ex Logística e Transporte

Head-Ex Deliveries

Depot:
Cambridge

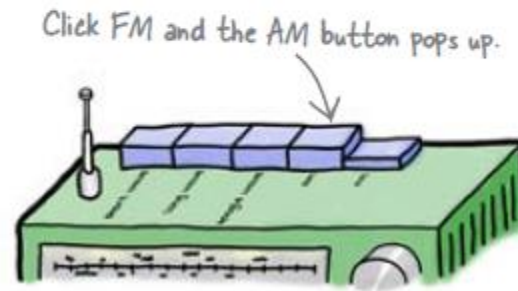
Description:
Football Shirts

Address:
42 Harvard Square
Cambridge
MAS9

Save

Este campo é ambíguo,
não está claro qual
Cambridge é...

HEAD-Ex Logística e Transporte



Radio Buttons

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Radio buttons →

Depot:

- ☒ Cambridge, MA
- ☐ Cambridge, UK
- ☐ Seattle, WA

Description:

Address:

Save

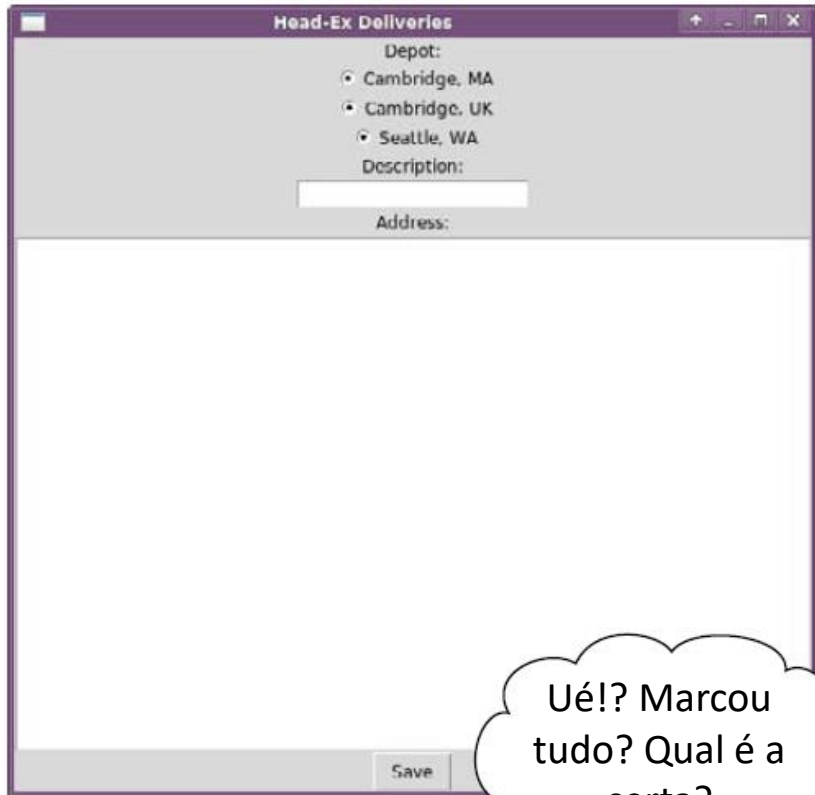
```
Radiobutton(app, text = 'Cambridge, MA').pack()  
Radiobutton(app, text = 'Cambridge, UK').pack()  
Radiobutton(app, text = 'Seattle, WA').pack()
```

Posso ver
como ficou?




Rodar Logística 02.pyw

HEAD-Ex Logística e Transporte




The screenshot shows a software window titled "Head-Ex Deliveries". Inside, there is a "Depot:" section with three radio buttons: "Cambridge, MA", "Cambridge, UK", and "Seattle, WA". The "Cambridge, MA" option is selected. Below this is a "Description:" label followed by an empty text input field. At the bottom of the window is a "Save" button.


Sem chance! EU sou o escolhido.

 Cambridge, MA

Sou o bom!

 Cambridge, UK

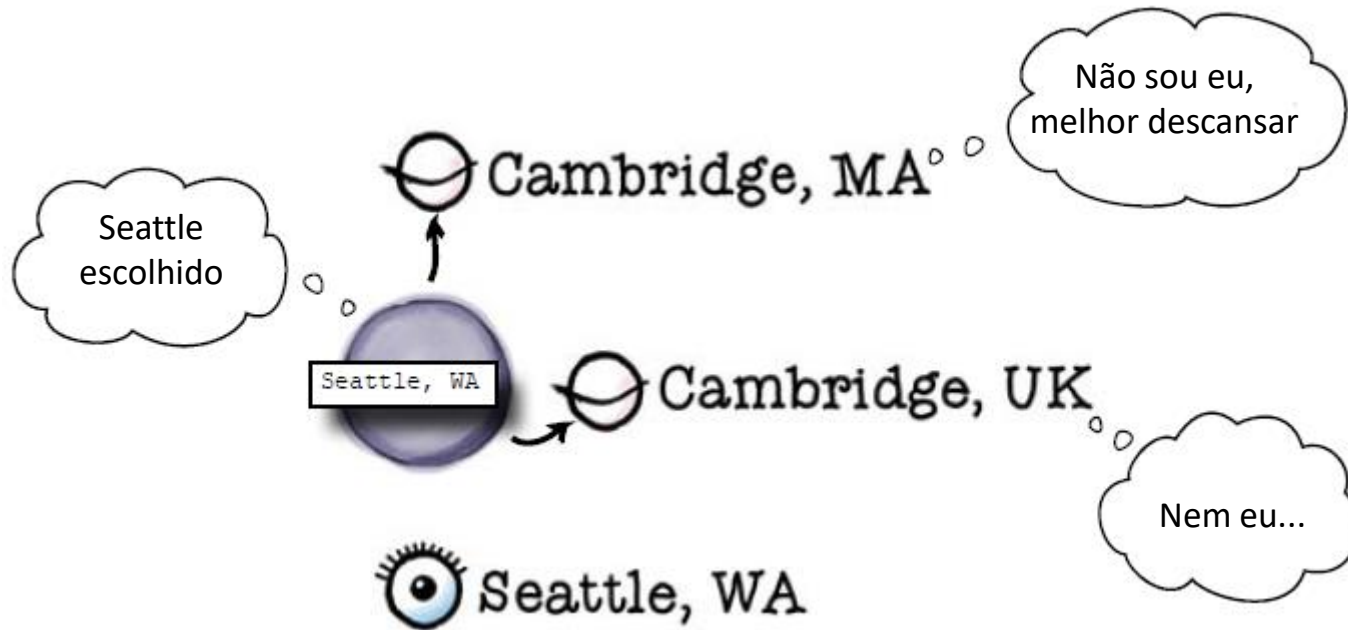
Sou eu!

 Seattle, WA

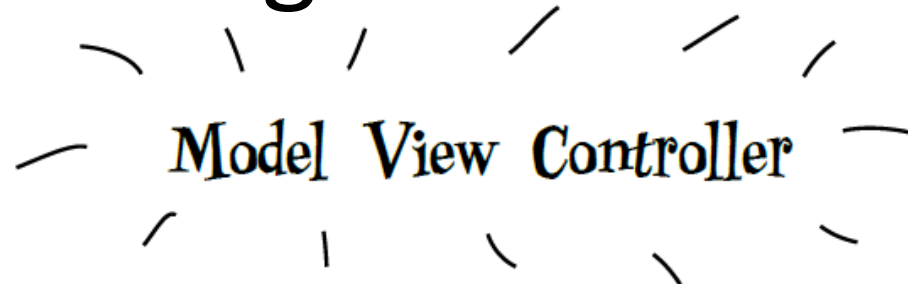
Ué!? Marcou tudo? Qual é a certa?



HEAD-Ex Logística e Transporte



HEAD-Ex Logística e Transporte



- Modelo é o dado armazenado
- Visão é o radio button apresentado
- Controle é o código tkinter que gerencia tudo isso

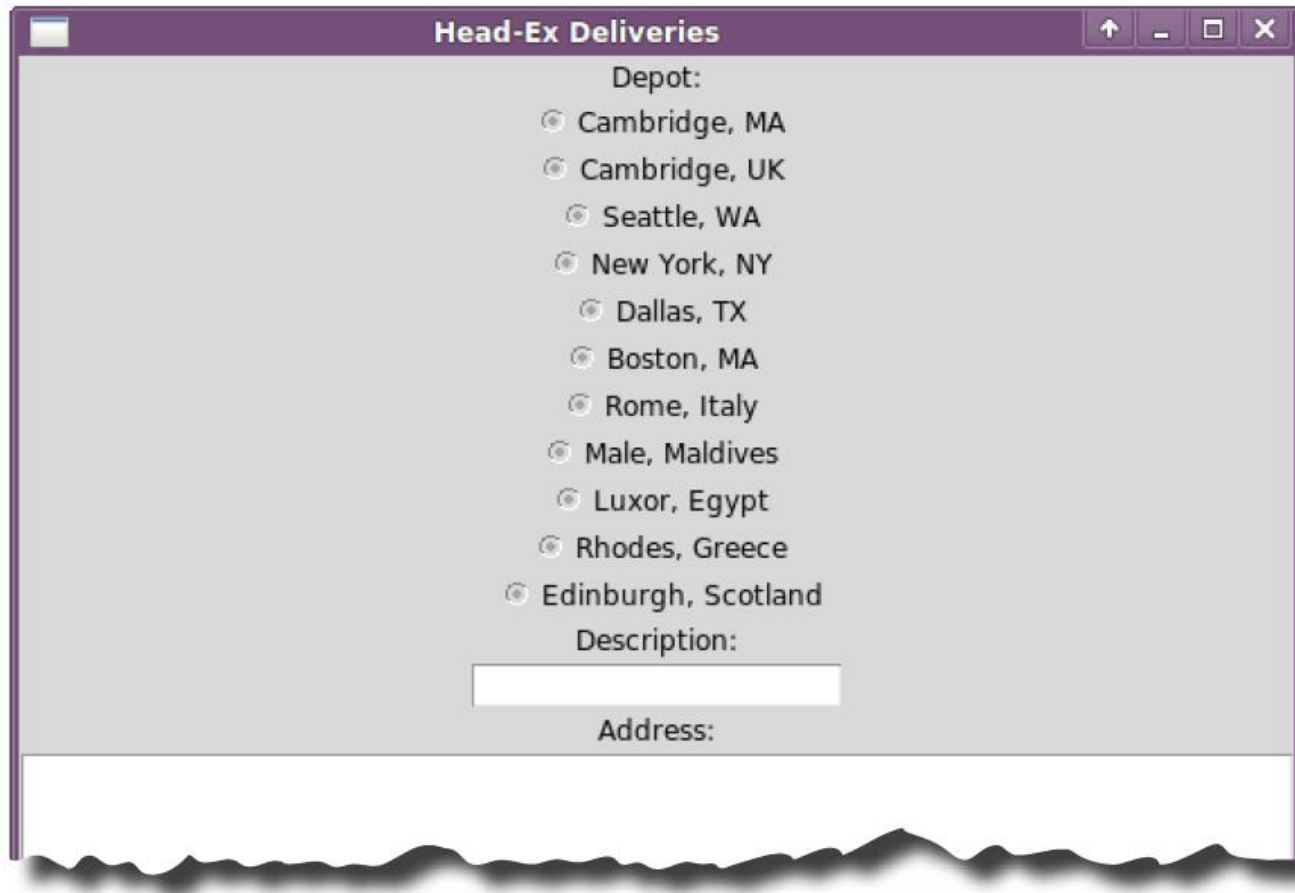
```
Label(app, text = "Destino: ").pack()
destino = StringVar()
destino.set(None)
Radiobutton(app, variable = destino, text = 'Cambridge, MA',
            value = 'Cambridge, MA').pack()
Radiobutton(app, variable = destino, text = 'Cambridge, UK',
            value = 'Cambridge, UK').pack()
Radiobutton(app, variable = destino, text = 'Seattle, WA',
            value = 'Seattle, WA').pack()
```

HEAD-Ex Logística e Transporte



Head-Ex is opening depots
all over the world.

HEAD-Ex Logística e Transporte



The image shows a screenshot of a software window titled "Head-Ex Deliveries". The window has a purple title bar with standard window controls (minimize, maximize, close) on the right. The main content area is light gray and contains a list of depot locations, each preceded by a radio button. The locations are: Cambridge, MA; Cambridge, UK; Seattle, WA; New York, NY; Dallas, TX; Boston, MA; Rome, Italy; Male, Maldives; Luxor, Egypt; Rhodes, Greece; and Edinburgh, Scotland. Below the list, there is a "Description:" label followed by a white text input field. At the bottom of the window, there is an "Address:" label followed by a white text input field. The window is set against a white background with a dark, wavy shadow at the bottom.

Head-Ex Deliveries

Depot:

- ☐ Cambridge, MA
- ☐ Cambridge, UK
- ☐ Seattle, WA
- ☐ New York, NY
- ☐ Dallas, TX
- ☐ Boston, MA
- ☐ Rome, Italy
- ☐ Male, Maldives
- ☐ Luxor, Egypt
- ☐ Rhodes, Greece
- ☐ Edinburgh, Scotland

Description:

Address:

E agora??

HEAD-Ex Logística e Transporte

```
def salvar_dados():
    f = open('encomenda.txt', 'a')
    f.write('Destino: ')
    f.write(f'{destino.get()}\n')
    f.write('Descrição: ')
    f.write(f'{descricao.get()}\n')
    f.write('Endereço: ')
    f.write(f'{endereco.get("1.0", END)}\n')
    destino.set('Jacareí')
    descricao.delete(0, END)
    endereco.delete("1.0", END)
    f.close()

def ler_destinos(arquivo):
    destinos = []
    f = open(arquivo)
    for linha in f: destinos.append(linha.rstrip())
    f.close()
    destinos.sort()
    return destinos
```

HEAD-Ex Logística e Transporte

```
from tkinter import *
app = Tk()
app.title('Head-Ex Logística e Transportes')
Label(app, text = "Destino:").pack()
destino = StringVar()
destino.set(None)

opções = ler_destinos("cidades.txt")
OptionMenu(app, destino, *opções).pack()

Label(app, text = "Descrição:").pack()
descricao = Entry(app)
descricao.pack()
Label(app, text = "Endereço:").pack()
endereço = Text(app)
endereço.pack()
Button(app, text = "Salvar", command = salvar_dados).pack()
app.mainloop()
```


HEAD-Ex Logística e Transporte



Revisão

- MVC – Modelo, Visão, Controle
- Entry()
- Text()
- StringVar()
- RadioButton()
- OptionMenu()