



TKINTER

A BIBLIOTECA TKINTER / CUSTOMTKINTER

PARTE II - CONTAINERS

**CUSTOM TKINTER** 

LICENCIATURA EM

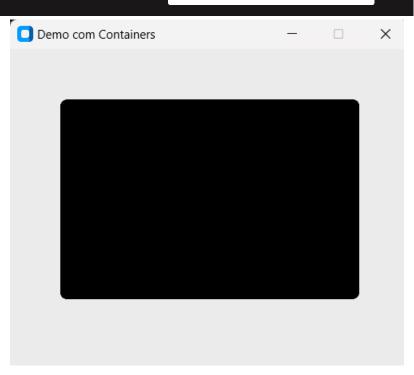
TECNOLOGIAS E SISTEMAS DE INFORMAÇÃO PARA A WEB #ESMAD #P.PORTO

- ☐ GUI *Graphical User Interface*
- ☐ Bibliotecas para GUI em python
- A BIBLIOTECA TKINTER VS CUSTOMTKINTER
- ☐ Biblioteca CustomTkinter
  - ☐ Instalação
  - Windows
  - Widgets
  - ☐ Containers





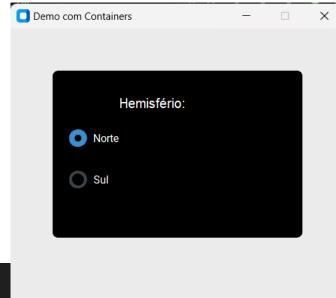
- ☐ Frame
  - ☐ width
  - ☐ height
  - □ border\_width
  - Border\_color
  - ☐ fg\_color
  - □ bg\_color



```
# FRAME
frameRadioButtons = customtkinter.CTkFrame(app, width=300, height=200, fg_color="black")
frameRadioButtons.place(x=50, y=50)
4
```



- ☐ Frame
  - □ width
  - ☐ height
  - ☐ border width
  - ☐ Border color
  - ☐ fg\_color, bg\_color



```
bg_color="transparent", font=("Helvetica", 16))

labelHemisferio.place(x=80, y=25)

# RadioButtons

radioVariable = customtkinter.StringVar(value="Norte")

radiobutton1 = customtkinter.CTkRadioButton(frameRadioButtons, text="Norte", text_color="white",

variable= radioVariable, value="Norte")

radiobutton2.place(x=20, y=70)

radiobutton2.place(x=20, y=120)
```



□ Frame□ width□ height□ border\_width, border\_color□ fg\_color, bg\_color

# FRAME 2
frameIdiomas = customtkinter.CTkFrame(app, width=300, height=200, fg\_color="black")
frameIdiomas.place(x=50, y=285)
4

Demo com Containers	-	×
Hemisfério:		
• Norte		
Sul		
Idiomas Oficiais:		
Inglês		
Françês		
Português		
Outro		



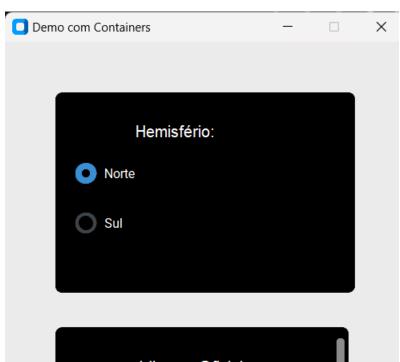
#### ☐ Frame

```
# Label
    labelIdioma = customtkinter.CTkLabel(frameIdiomas, text= "Idiomas Oficiais:", text_color="white",
                        bg_color="transparent", font=("Helvetica", 16))
    labelIdioma.place(x=80, y=25)
    # CheckBox - Idioma Oficial
    checkVar1 = customtkinter.StringVar(value="off")
    checkVar2 = customtkinter.StringVar(value="off")
    checkVar3 = customtkinter.StringVar(value="on")
    checkVar4 = customtkinter.StringVar(value="off")
11
    checkboxEN = customtkinter.CTkCheckBox(frameIdiomas, text="Inglês", text_color="white",
13
                                        variable=checkVar1, onvalue="on", offvalue="off")
    checkboxFR = customtkinter.CTkCheckBox(frameIdiomas, text="Françês", text_color="white",
                                        variable=checkVar2, onvalue="on", offvalue="off")
    checkboxPT = customtkinter.CTkCheckBox(frameIdiomas, text="Português", text_color="white",
                                        variable=checkVar3, onvalue="on", offvalue="off")
    checkboxOT = customtkinter.CTkCheckBox(frameIdiomas, text="Outro", text_color="white",
                                        variable=checkVar4, onvalue="on", offvalue="off")
    checkboxEN.place(x=20, y= 70)
    checkboxFR.place(x=20, y= 100)
    checkboxPT.place(x=20, y= 130)
    checkboxOT.place(x=20, y= 160)
```

Demo com Containers	_	×
Hemisfério:		
<ul><li>Norte</li></ul>		
Sul		
O Sui		
		1
Idiomas Ofi	ciais:	
Idiomas On	ciais.	
Inglês		
Françês		
✓ Português		
Outro		



- **☐** ScrollableFrame
  - ☐ width
  - ☐ height
  - □ border\_width, border\_color
  - ☐ fg\_color, bg\_color
  - ☐ orientation ("horizontal", "vertical")



```
# FRAME 2
                                                                                                                       Português
frameIdiomas = customtkinter.CTkScrollableFrame(app, width=270, height=200, orientation="vertical",
                                              fg_color="black")
frameIdiomas.place(x=50, y=285)
```

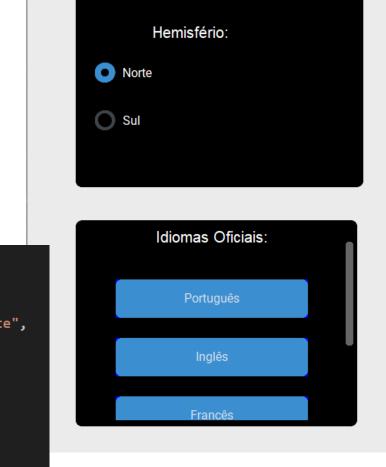




X

#### Containers

- ☐ ScrollableFrame
  - □ width
  - ☐ height
  - □ border\_width, border\_color
  - ☐ fg color, bg color
  - ☐ orientation ("horizontal", "vertical")



Demo com Containers