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1: # In-class example in HCC Fundamentals
2: # Brygg Ullmer, Clemson University
3: # Begun 2024-09-12
4:
5: from tkinter import *
6: from tkinter.font import *
7: from hccStudentThemesTki import *
```

```
9: def helloCB():
10:     print("hello was pushed")
```



```
12: root = Tk()
13: root.title("HCC student themes navigator")
14: cw = 25 #column width
```



```
22: headerFont = Font(family="Calibri", size=15, weight=BOLD)
23: bodyFont = Font(family="Calibri", size=13)
24:
25: st = studentThemesTki()
26: categories = st.getCategories()
```


```
28: for category in categories:
29:     f = Frame(root); f.pack(side=LEFT, anchor="n") #anchor to the north
30:     b = Button(f, text=category, command=helloCB, font=headerFont, bg='#aaa')
31:     b.pack(expand=True, fill=BOTH)
```



```
33: subthemes = st.getCatEntries(category)
34: for subtheme in subthemes:
35:     b2 = Button(f, text=subtheme, width=cw, anchor="w", font=bodyFont)
36:     b2.pack(side=TOP)
```



```
38: studentKeys = st.getStudentKeys()
39: firstStudent = studentKeys[0]
40: studentViewFrame = st.buildStudentThemeView(root, firstStudent)
41: studentViewFrame.pack(expand=True, fill=BOTH)
43: root.mainloop()
46: ### end ###
```

 HCC student themes navigator

AI+Social	Health+computing	HCC + new platforms	name: currentDegreee currentDegreee priorDegrees: briefIntroduc I have diver MS from Georg I enjoy danc about new cult I have an ex and being in a relevantAspir Understand of researchers haven't been Learn to loc develop an und done, what dic classRelevant collection, da literature, fi teaming or in
How Culture impacts Human-AI I	MCI & AI Smartphone Systems	HCC within Quantum Computing	
reducing bias/filter bubbles	Technology assisting disabled use	Human Inspiration from Comput	
Dark Patterns in Software Product	Technology-Driven Health Equity		
Autonomous Boundary Spanning	AI in Mental Health Support		
team cognition in human-AI team	Working Through Changes		
AI in Education for Students	Genetic Sequence Testing and Dis		
AI vs Human Values Judgement	Assisting disabled people with AI		
autopilot and human collaboratio	Cognitive accessibility		
privacy enhancement, user study	More inclusive human-computer		
dummy-proof security; trustwor			

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5: from tkinter import *
6: from tkinter.font import *
7: from functools import partial
8: from hccStudentThemesTki import *
9: from enoButtonArrayTki import *

11: root = Tk()
12: cw = 25 #column width
14: root.title("HCC student themes navigator")

16: try: headerFont = Font(family="Calibri", size=15, weight=BOLD)
17: except: headerFont = ('Sans', '15', 'bold')

19: try: bodyFont = Font(family="Calibri", size=13)
20: except: bodyFont = ('Sans', '13')

22: st = studentThemesTki()
23: categories = st.getCategories()
24:
25: ##### main #####
26:
27: bhm = buttonHighlightMgr()
28:
29: for category in categories:
30:     f = Frame(root, bg='#112'); f.pack(side=LEFT, anchor="n", expand=True, fill=BOTH)
31:     b = Button(f, text=category, font=headerFont, bg='#000', fg='#eee')
32:     b.pack(fill=X)
33:
34:     subthemes = st.getCatEntries(category)
35:     for subtheme in subthemes:
36:         cb1 = partial(st.displayStudentTheme, subtheme)
37:         cb2 = partial(bhm.triggerHighlightButton, subtheme)
38:         b2 = Button(f, text=subtheme, width=cw, anchor="w", font=bodyFont, command=cb2,
39:                    bg='#444', fg='#ccc')
40:         bhm.registerButtonHandleCb(subtheme, b2, cb1)
41:         b2.pack(side=TOP)

43: def bindAllWidgets(widget, keybind, cb):
44:     widget.bind(keybind, cb)
45:     for child in widget.winfo_children(): bindAllWidgets(child, keybind, cb)
47: bindAllWidgets(root, '<Right>', bhm.cycleNextButton)

49: studentKeysNavigator = st.getStudentKeys()
50: firstStudent = studentKeys[0]
51: studentViewFrame = st.buildStudentThemeView(root, firstStudent)
52: studentViewFrame.pack(expand=True, fill=BOTH)

54: root.mainloop()
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B

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