# TKinter GUI layout using frames and grids. Example from stackoverflow

from Tkinter import \*

root = Tk()

root.title('Model Definition')

root.geometry('{}x{}'.format(460, 350))

# create all of the main containers

top\_frame = Frame(root, bg='cyan', width=450, height=50, pady=3)

center = Frame(root, bg='gray2', width=50, height=40, padx=3, pady=3)

btm\_frame = Frame(root, bg='white', width=450, height=45, pady=3)

btm\_frame2 = Frame(root, bg='lavender', width=450, height=60, pady=3)

# layout all of the main containers

root.grid\_rowconfigure(1, weight=1)

root.grid\_columnconfigure(0, weight=1)

top\_frame.grid(row=0, sticky="ew")

center.grid(row=1, sticky="nsew")

btm\_frame.grid(row=3, sticky="ew")

btm\_frame2.grid(row=4, sticky="ew")

# create the widgets for the top frame

model\_label = Label(top\_frame, text='Model Dimensions')

width\_label = Label(top\_frame, text='Width:')

length\_label = Label(top\_frame, text='Length:')

entry\_W = Entry(top\_frame, background="pink")

entry\_L = Entry(top\_frame, background="orange")

# layout the widgets in the top frame

model\_label.grid(row=0, columnspan=3)

width\_label.grid(row=1, column=0)

length\_label.grid(row=1, column=2)

entry\_W.grid(row=1, column=1)

entry\_L.grid(row=1, column=3)

# create the center widgets

center.grid\_rowconfigure(0, weight=1)

center.grid\_columnconfigure(1, weight=1)

ctr\_left = Frame(center, bg='blue', width=100, height=190)

ctr\_mid = Frame(center, bg='yellow', width=250, height=190, padx=3, pady=3)

ctr\_right = Frame(center, bg='green', width=100, height=190, padx=3, pady=3)

ctr\_left.grid(row=0, column=0, sticky="ns")

ctr\_mid.grid(row=0, column=1, sticky="nsew")

ctr\_right.grid(row=0, column=2, sticky="ns")

root.mainloop()

