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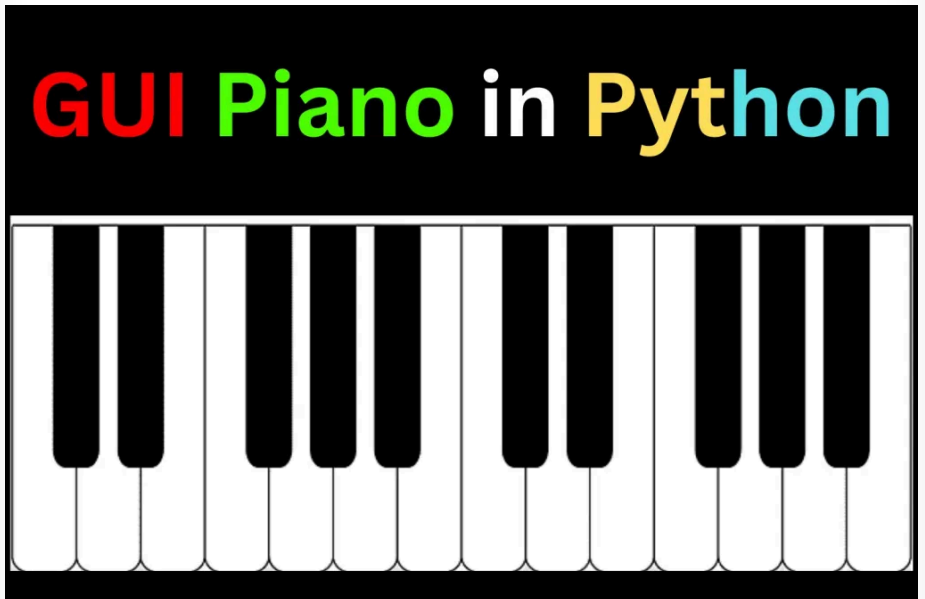
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## GUI Piano in Python

AYUSH PURAWR DECEMBER 12, 2022



Hello folks! Today we are back with one another article on **GUI Piano in Python**. We all have played with piano once in our life. Now today is the time to build one on ourselves. This piano project will have all the functionalities that our physical piano used to have. For the development of Piano in Python, we will use Python libraries, namely PyGame and pl. This will be a full-fledged working project wherein a user will get to learn a lot more about the PyGame library.

We will try to explain each and every code line in detail so that you can get a grip on concepts. Before moving on to the actual development of the Piano in Python, let us look at what we are going to build in detail and then go through the list of features we will add to this project on Piano in Python.

### Basic idea

Here in this project on Piano in Python, we will build a fully functional advanced piano with all the keys that are available in the original piano. Our Piano's GUI will be based on a black-and-white theme. This piano will work based on various musical notes that will be used in the form of .wav file format and then we will link each key in the piano to the file in order to make the piano fully functional.

A note for all the readers of this project. Before moving ahead, let us talk about the directory structure of files for this project on GUI Piano in Python. Basically, the user will have to create the main folder and in that folder, there will be two **.py** files, namely: **main.py** and **piano\_lists.py**. In the same folder, there will be a folder named **"assets"**, and in that folder, there will be another folder named **"notes"** which will hold all the different music files for this project on GUI Piano in Python. In the **"assets"** folder be a dedicated file for fonts with the name **Terserah. ttf**

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## Features

- Make the piano key work using the keyboard as well as the mouse.
- A key should be highlighted when a green color mark presses it.
- A proper indication according to the keyboard should be mentioned on each key.
- No two keys must produce the same sound.

Let us move on to the actual coding of our project.

## Complete Code for Piano in Python

Before moving ahead, talking about the directory, we made the main folder and inside that, there are our 2 python scripts, and one folder named **“assets”**, inside that folder we have a folder named **“notes”** and in that folder, we have stored all our music files. We also have a file for fonts in the **“notes”** folder.

**NOTE:** Please name all the py files as it is named below

### main.py

```

1  #basic library imports for Piano in Python
2  import pygame
3  import piano_lists as pl
4  from pygame import mixer
5
6  #this will initialize the pygame library
7  pygame.init()
8  pygame.mixer.set_num_channels(50)
9
10 #this is the path to fonts that we will use
11 #other variables for the sound and window
12 font = pygame.font.Font('assets/Terserah.ttf', 48)
13 #the below is the declaration for the different size of fonts that we are going to use
14 medium_font = pygame.font.Font('assets/Terserah.ttf', 28)
15 small_font = pygame.font.Font('assets/Terserah.ttf', 16)
16 real_small_font = pygame.font.Font('assets/Terserah.ttf', 10)
17 fps = 60
18
19 #enables the creation of a fresh Clock object that may be used to monitor time. Additionally, the clo
20 #Every frame should include one call to this function. It will calculate the number of milliseconds sin
21 timer = pygame.time.Clock()
22 WIDTH = 52 * 35
23 HEIGHT = 400
24 screen = pygame.display.set_mode([WIDTH, HEIGHT])
25 white_sounds = []
26 black_sounds = []
27 active_whites = []
28 active_blacks = []
29 left_oct = 4
30 right_oct = 5
31
32 left_hand = pl.left_hand
33 right_hand = pl.right_hand
34 piano_notes = pl.piano_notes
35 white_notes = pl.white_notes
36 black_notes = pl.black_notes
37 black_labels = pl.black_labels
38
39 #for loop is for accessing notes from the assets folder for all the white key on piano
40 for i in range(len(white_notes)):
41     white_sounds.append(mixer.Sound(f'assets\\notes\\{white_notes[i]}.wav'))
42
43 #this for loop will access all the music files from the assets folder for black notes
44 for i in range(len(black_notes)):
45     black_sounds.append(mixer.Sound(f'assets\\notes\\{black_notes[i]}.wav'))
46 #this is to give a title to our pygame window for gui Piano in Python project
47 pygame.display.set_caption("Python Piano - CopyAssignment")
48
49 #this function will draw the piano keys on the window of Piano in Python
50 def draw_piano(whites, blacks):
51     white_rects = []
52     for i in range(52):
53         #we made use of rect() function in order to draw the key of the piano for white keys
54         rect = pygame.draw.rect(screen, 'white', [i * 35, HEIGHT - 300, 35, 300], 0, 2)
55         white_rects.append(rect)
56         #same goes for black keys on paino
57         pygame.draw.rect(screen, 'black', [i * 35, HEIGHT - 300, 35, 300], 2, 2)
58         key_label = small_font.render(white_notes[i], True, 'black')
59         screen.blit(key_label, (i * 35 + 3, HEIGHT - 20))
60     skip_count = 0
61     last_skip = 2

```

```

62 skip_track = 2
63 black_rects = []
64 for i in range(36):
65     #this is to draw the small black rectangles on the larger keys in GUI Piano in Python
66     rect = pygame.draw.rect(screen, 'black', [23 + (i * 35) + (skip_count * 35), HEIGHT - 300, 24, 2
67     for q in range(len(blacks)):
68         #this conditional will keep thrack of the green marker that we want to show up on each key
69         #whenever a user pessses the key of Piano App in Python, a green marker should show up
70         if blacks[q][0] == i:
71             if blacks[q][1] > 0:
72                 pygame.draw.rect(screen, 'green', [23 + (i * 35) + (skip_count * 35), HEIGHT - 300, 24,
73                 blacks[q][1] -= 1
74
75     #this variable will handle all the labels that the keys will have in our project
76     key_label = real_small_font.render(black_labels[i], True, 'white')
77     screen.blit(key_label, (25 + (i * 35) + (skip_count * 35), HEIGHT - 120))
78     black_rects.append(rect)
79     skip_track += 1
80     if last_skip == 2 and skip_track == 3:
81         last_skip = 3
82         skip_track = 0
83         skip_count += 1
84     elif last_skip == 3 and skip_track == 2:
85         last_skip = 2
86         skip_track = 0
87         skip_count += 1
88     #this will move the green block from white spaces to another white spaces
89     for i in range(len(whites)):
90         if whites[i][1] > 0:
91             j = whites[i][0]
92             pygame.draw.rect(screen, 'green', [j * 35, HEIGHT - 100, 35, 100], 2, 2)
93             whites[i][1] -= 1
94
95     return white_rects, black_rects, whites, blacks
96
97
98     for i in range(36):
99         #this is to draw the small black rectangles on the larger keys in Piano GUI in Python
100         rect = pygame.draw.rect(screen, 'black', [23 + (i * 35) + (skip_count * 35), HEIGHT - 300, 24, 2
101         for q in range(len(blacks)):
102             #this conditional will keep thrack of the green marker that we want to show up on each key
103             #whenever a user pessses the key of Piano GUI in Python, a green marker should show up
104             if blacks[q][0] == i:
105                 if blacks[q][1] > 0:
106                     pygame.draw.rect(screen, 'green', [23 + (i * 35) + (skip_count * 35), HEIGHT - 300, 24,
107                     blacks[q][1] -= 1
108
109         #this variable will handle all the labels that the keys will have in our project
110         key_label = real_small_font.render(black_labels[i], True, 'white')
111         screen.blit(key_label, (25 + (i * 35) + (skip_count * 35), HEIGHT - 120))
112         black_rects.append(rect)
113         skip_track += 1
114         if last_skip == 2 and skip_track == 3:
115             last_skip = 3
116             skip_track = 0
117             skip_count += 1
118         elif last_skip == 3 and skip_track == 2:
119             last_skip = 2
120             skip_track = 0
121             skip_count += 1
122         #this will move the green block from white spaces to another white spaces
123         for i in range(len(whites)):
124             if whites[i][1] > 0:
125                 j = whites[i][0]
126                 pygame.draw.rect(screen, 'green', [j * 35, HEIGHT - 100, 35, 100], 2, 2)
127                 whites[i][1] -= 1
128
129         return white_rects, black_rects, whites, blacks
130
131
132 def draw_hands(rightOct, leftOct, rightHand, leftHand):
133     # left hand side keys are handles by the below section of code
134     pygame.draw.rect(screen, 'dark gray', [(leftOct * 245) - 175, HEIGHT - 60, 245, 30], 0, 4)
135     pygame.draw.rect(screen, 'black', [(leftOct * 245) - 175, HEIGHT - 60, 245, 30], 4, 4)
136     text = small_font.render(leftHand[0], True, 'white')
137     screen.blit(text, ((leftOct * 245) - 165, HEIGHT - 55))
138     text = small_font.render(leftHand[2], True, 'white')
139     screen.blit(text, ((leftOct * 245) - 130, HEIGHT - 55))
140     text = small_font.render(leftHand[4], True, 'white')
141     screen.blit(text, ((leftOct * 245) - 95, HEIGHT - 55))
142     text = small_font.render(leftHand[5], True, 'white')
143     screen.blit(text, ((leftOct * 245) - 60, HEIGHT - 55))
144     text = small_font.render(leftHand[7], True, 'white')
145     screen.blit(text, ((leftOct * 245) - 25, HEIGHT - 55))
146     text = small_font.render(leftHand[9], True, 'white')
147     screen.blit(text, ((leftOct * 245) + 10, HEIGHT - 55))
148     text = small_font.render(leftHand[11], True, 'white')
149     screen.blit(text, ((leftOct * 245) + 45, HEIGHT - 55))
150     text = small_font.render(leftHand[1], True, 'black')
151     screen.blit(text, ((leftOct * 245) - 148, HEIGHT - 55))
152     text = small_font.render(leftHand[3], True, 'black')
153     screen.blit(text, ((leftOct * 245) - 113, HEIGHT - 55))
154     text = small_font.render(leftHand[6], True, 'black')
155     screen.blit(text, ((leftOct * 245) - 43, HEIGHT - 55))
156     text = small_font.render(leftHand[8], True, 'black')
157     screen.blit(text, ((leftOct * 245) - 8, HEIGHT - 55))
158     text = small_font.render(leftHand[10], True, 'black')
159     screen.blit(text, ((leftOct * 245) + 27, HEIGHT - 55))
160

```

```

161 # right hand side keys are handles by the below section of code
162 pygame.draw.rect(screen, 'dark gray', [(rightOct * 245) - 175, HEIGHT - 60, 245, 30], 0, 4)
163 pygame.draw.rect(screen, 'black', [(rightOct * 245) - 175, HEIGHT - 60, 245, 30], 4, 4)
164 text = small_font.render(rightHand[0], True, 'white')
165 screen.blit(text, ((rightOct * 245) - 165, HEIGHT - 55))
166 text = small_font.render(rightHand[2], True, 'white')
167 screen.blit(text, ((rightOct * 245) - 130, HEIGHT - 55))
168 text = small_font.render(rightHand[4], True, 'white')
169 screen.blit(text, ((rightOct * 245) - 95, HEIGHT - 55))
170 text = small_font.render(rightHand[5], True, 'white')
171 screen.blit(text, ((rightOct * 245) - 60, HEIGHT - 55))
172 text = small_font.render(rightHand[7], True, 'white')
173 screen.blit(text, ((rightOct * 245) - 25, HEIGHT - 55))
174 text = small_font.render(rightHand[9], True, 'white')
175 screen.blit(text, ((rightOct * 245) + 10, HEIGHT - 55))
176 text = small_font.render(rightHand[11], True, 'white')
177 screen.blit(text, ((rightOct * 245) + 45, HEIGHT - 55))
178 text = small_font.render(rightHand[1], True, 'black')
179 screen.blit(text, ((rightOct * 245) - 148, HEIGHT - 55))
180 text = small_font.render(rightHand[3], True, 'black')
181 screen.blit(text, ((rightOct * 245) - 113, HEIGHT - 55))
182 text = small_font.render(rightHand[6], True, 'black')
183 screen.blit(text, ((rightOct * 245) - 43, HEIGHT - 55))
184 text = small_font.render(rightHand[8], True, 'black')
185 screen.blit(text, ((rightOct * 245) - 8, HEIGHT - 55))
186 text = small_font.render(rightHand[10], True, 'black')
187 screen.blit(text, ((rightOct * 245) + 27, HEIGHT - 55))
188
189 #this will draw the upper section of Piano GUI In Python
190 def draw_title_bar():
191     instruction_text = medium_font.render("Up/Down Arrows Change Left Hand", True, 'black')
192     screen.blit(instruction_text, (WIDTH - 500, 10))
193     instruction_text2 = medium_font.render("Left/Right Arrows Change Right Hand", True, 'black')
194     screen.blit(instruction_text2, (WIDTH - 500, 50))
195     title_text = font.render("CopyAssignment Paino!", True, 'white')
196     screen.blit(title_text, (298, 18))
197     title_text = font.render("CopyAssignment Paino!", True, 'black')
198     screen.blit(title_text, (300, 20))
199
200
201 run = True
202 #while loop for all the keys
203 while run:
204     left_dict = {'Z': fC(left_oct)',
205                 'S': fC#(left_oct)',
206                 'X': fD(left_oct)',
207                 'D': fD#(left_oct)',
208                 'C': fE(left_oct)',
209                 'V': fF(left_oct)',
210                 'G': fF#(left_oct)',
211                 'B': fG(left_oct)',
212                 'H': fG#(left_oct)',
213                 'N': fA(left_oct)',
214                 'J': fA#(left_oct)',
215                 'M': fB(left_oct)'}
216
217     right_dict = {'R': fC(right_oct)',
218                  '5': fC#(right_oct)',
219                  'T': fD(right_oct)',
220                  '6': fD#(right_oct)',
221                  'Y': fE(right_oct)',
222                  'U': fF(right_oct)',
223                  '8': fF#(right_oct)',
224                  'I': fG(right_oct)',
225                  '9': fG#(right_oct)',
226                  'O': fA(right_oct)',
227                  '0': fA#(right_oct)',
228                  'P': fB(right_oct)'}
229
230     timer.tick(fps)
231     screen.fill('gray')
232     white_keys, black_keys, active_whites, active_blacks = draw_piano(active_whites, active_blacks)
233     draw_hands(right_oct, left_oct, right_hand, left_hand)
234     draw_title_bar()
235     for event in pygame.event.get():
236         if event.type == pygame.QUIT:
237             run = False
238         if event.type == pygame.MOUSEBUTTONDOWN:
239             black_key = False
240             for i in range(len(black_keys)):
241                 if black_keys[i].collidepoint(event.pos):
242                     black_sounds[i].play(0, 1000)
243                     black_key = True
244                     active_blacks.append([i, 30])
245             for i in range(len(white_keys)):
246                 if white_keys[i].collidepoint(event.pos) and not black_key:
247                     white_sounds[i].play(0, 3000)
248                     active_whites.append([i, 30])
249         if event.type == pygame.TEXTINPUT:
250             if event.text.upper() in left_dict:
251                 if left_dict[event.text.upper()][1] == '#':
252                     index = black_labels.index(left_dict[event.text.upper()])
253                     black_sounds[index].play(0, 1000)
254                     active_blacks.append([index, 30])
255                 else:
256                     index = white_notes.index(left_dict[event.text.upper()])
257                     white_sounds[index].play(0, 1000)
258                     active_whites.append([index, 30])
259             if event.text.upper() in right_dict:
260                 if right_dict[event.text.upper()][1] == '#':

```

```

260         index = black_labels.index(right_dict[event.text.upper()])
261         black_sounds[index].play(0, 1000)
262         active_blacks.append([index, 30])
263     else:
264         index = white_notes.index(right_dict[event.text.upper()])
265         white_sounds[index].play(0, 1000)
266         active_whites.append([index, 30])
267
268 #this for loop is to handle the mouse click events in Piano in Python
269 for event in pygame.event.get():
270     if event.type == pygame.QUIT:
271         run = False
272     if event.type == pygame.MOUSEBUTTONDOWN:
273         black_key = False
274         for i in range(len(black_keys)):
275             #The PyGame Rect class has documentation on the point-collision. In essence, you prov
276             # If a point is located inside the boundaries of the rectangle, the function Rect. collidepoir
277             if black_keys[i].collidepoint(event.pos):
278                 black_sounds[i].play(0, 1000)
279                 black_key = True
280                 active_blacks.append([i, 30])
281         for i in range(len(white_keys)):
282             if white_keys[i].collidepoint(event.pos) and not black_key:
283                 white_sounds[i].play(0, 3000)
284                 active_whites.append([i, 30])
285     if event.type == pygame.TEXTINPUT:
286         if event.text.upper() in left_dict:
287             if left_dict[event.text.upper()][1] == '#':
288                 #The Python index() function aids in locating a certain element's or item's position insic
289                 #It produces the list's supplied element's lowest possible index.
290                 #A ValueError is returned if the requested item doesn't exist in the list.
291                 index = black_labels.index(left_dict[event.text.upper()])
292                 black_sounds[index].play(0, 1000)
293                 active_blacks.append([index, 30])
294             else:
295                 index = white_notes.index(left_dict[event.text.upper()])
296                 white_sounds[index].play(0, 1000)
297                 active_whites.append([index, 30])
298         if event.text.upper() in right_dict:
299             if right_dict[event.text.upper()][1] == '#':
300                 index = black_labels.index(right_dict[event.text.upper()])
301                 black_sounds[index].play(0, 1000)
302                 active_blacks.append([index, 30])
303             else:
304                 index = white_notes.index(right_dict[event.text.upper()])
305                 white_sounds[index].play(0, 1000)
306                 active_whites.append([index, 30])
307
308 #this conditional block is to handle the arrow keys event for the working of Piano in Python
309 #we used conditionals to keep track of the arrow keys press event
310 if event.type == pygame.KEYDOWN:
311     if event.key == pygame.K_RIGHT:
312         if right_oct < 8:
313             right_oct += 1
314     if event.key == pygame.K_LEFT:
315         if right_oct > 0:
316             right_oct -= 1
317     if event.key == pygame.K_UP:
318         if left_oct < 8:
319             left_oct += 1
320     if event.key == pygame.K_DOWN:
321         if left_oct > 0:
322             left_oct -= 1
323
324     pygame.display.flip()
325 #this will quite the window of the pygame
326 pygame.quit()
327

```

## piano\_lists.py

```

1  #this below is the list for left hand keys
2  left_hand = ['Z', 'S', 'X', 'D', 'C', 'V', 'G', 'B', 'H', 'N', 'J', 'M']
3  #list for right hand keys
4  right_hand = ['R', '5', 'T', '6', 'Y', 'U', '8', 'I', '9', 'O', '0', 'P']
5
6  #various notes of the piano is stored in the form of list, that will be used in main.py file
7  piano_notes = ['A0', 'A0#', 'B0', 'C1', 'C1#', 'D1', 'D1#', 'E1', 'F1', 'F1#', 'G1', 'G1#',
8                 'A1', 'A1#', 'B1', 'C2', 'C2#', 'D2', 'D2#', 'E2', 'F2', 'F2#', 'G2', 'G2#',
9                 'A2', 'A2#', 'B2', 'C3', 'C3#', 'D3', 'D3#', 'E3', 'F3', 'F3#', 'G3', 'G3#',
10                'A3', 'A3#', 'B3', 'C4', 'C4#', 'D4', 'D4#', 'E4', 'F4', 'F4#', 'G4', 'G4#',
11                'A4', 'A4#', 'B4', 'C5', 'C5#', 'D5', 'D5#', 'E5', 'F5', 'F5#', 'G5', 'G5#',
12                'A5', 'A5#', 'B5', 'C6', 'C6#', 'D6', 'D6#', 'E6', 'F6', 'F6#', 'G6', 'G6#',
13                'A6', 'A6#', 'B6', 'C7', 'C7#', 'D7', 'D7#', 'E7', 'F7', 'F7#', 'G7', 'G7#',
14                'A7', 'A7#', 'B7', 'C8']
15
16 #this list is for the white keys
17 white_notes = ['A0', 'B0', 'C1', 'D1', 'E1', 'F1', 'G1',
18               'A1', 'B1', 'C2', 'D2', 'E2', 'F2', 'G2',
19               'A2', 'B2', 'C3', 'D3', 'E3', 'F3', 'G3',
20               'A3', 'B3', 'C4', 'D4', 'E4', 'F4', 'G4',
21               'A4', 'B4', 'C5', 'D5', 'E5', 'F5', 'G5',
22               'A5', 'B5', 'C6', 'D6', 'E6', 'F6', 'G6',
23               'A6', 'B6', 'C7', 'D7', 'E7', 'F7', 'G7',
24               'A7', 'B7', 'C8']
25 #for black keys on Piano GUI in Python

```

```

26 black_notes = ['Bb0', 'Db1', 'Eb1', 'Gb1', 'Ab1',
27                'Bb1', 'Db2', 'Eb2', 'Gb2', 'Ab2',
28                'Bb2', 'Db3', 'Eb3', 'Gb3', 'Ab3',
29                'Bb3', 'Db4', 'Eb4', 'Gb4', 'Ab4',
30                'Bb4', 'Db5', 'Eb5', 'Gb5', 'Ab5',
31                'Bb5', 'Db6', 'Eb6', 'Gb6', 'Ab6',
32                'Bb6', 'Db7', 'Eb7', 'Gb7', 'Ab7',
33                'Bb7']
34
35 #this list will handle all the names on each key of Piano GUI in Python
36 #the rendering of this list is done in main.py file
37 #this will be done using the for loop in our main file
38 black_labels = ['A#0', 'C#1', 'D#1', 'F#1', 'G#1',
39                'A#1', 'C#2', 'D#2', 'F#2', 'G#2',
40                'A#2', 'C#3', 'D#3', 'F#3', 'G#3',
41                'A#3', 'C#4', 'D#4', 'F#4', 'G#4',
42                'A#4', 'C#5', 'D#5', 'F#5', 'G#5',
43                'A#5', 'C#6', 'D#6', 'F#6', 'G#6',
44                'A#6', 'C#7', 'D#7', 'F#7', 'G#7',
45

```

## Reference Material

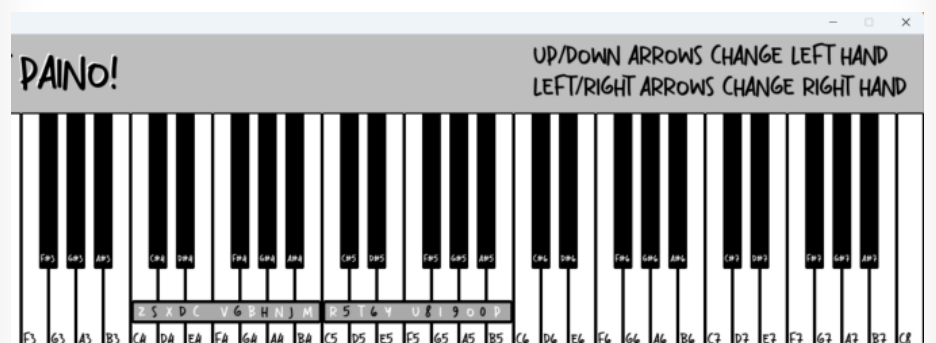
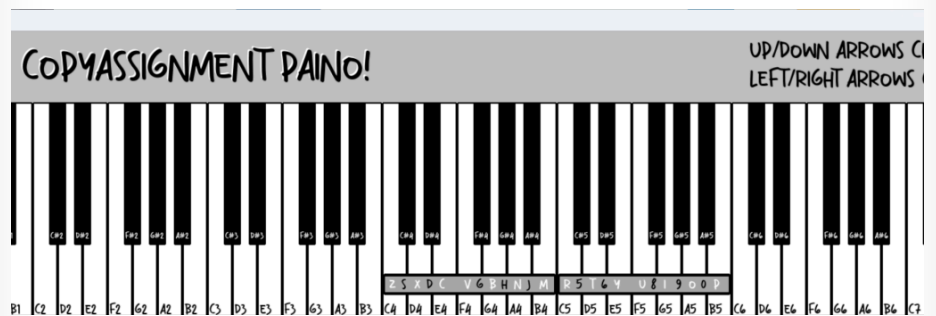
Here is the link to all the music files and fonts file

**Link:** [Click here for reference material](#)

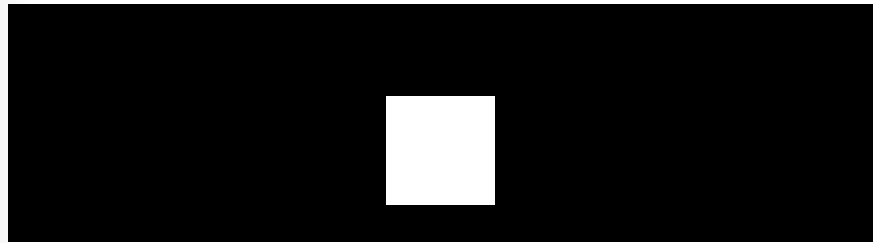
**NOTE:** Now if you want to add your own music notes and name them accordingly till the letter **Cc0 to Cc7**, **Dd0 to Dd7**, **Ee0 to Ee7**, **Ff0 to Ff7**, **Gg0 to Gg7**, and **C0 to C7**, **D0 to D7**, **E0 to E7**, **F0 to F7**, **G0 to G7**. Just a note that for any music file that you use, please name it as per the above format.

## Output for Piano in Python

Image output:



## Video output:



00:00

00:31

## Summary

Here is the end of our article on **GUI Piano in Python**. All in all, we utilized a variety of libraries and learned about a variety of functions. We really think that this lesson will serve as an excellent learning resource for you and that it will help you strengthen your CV. We made use of the pygame library that helped us to take input from the user which is in the form of keyboard key press events. Apart from that, we made use of the pl library that helped us in the making of this Piano App in Python. We heartily thank you for visiting [our website](#).

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