

Coded by Brandon Garcia

A game made for guitarists that will help them learn the notes on the instrument's fretboard

https://github.com/ksu-is/fretboardmemory-game

```
blue_font = (0, 102, 255)
black, white, red, gray = (0, 0, 0), (255, 255, 255), (255, 0, 0), (200, 200, 200)
standard_tuning = ['E', 'A', 'D', 'G', 'B', 'E']
notes = ['C', 'C#', 'D', 'D#', 'E', 'F', 'F#', 'G', 'G#', 'A', 'A#', 'B']
font = pygame.font.SysFont('Arial', 34)
 small_font = pygame.font.SysFont('Arial', 22)
FRET COUNT, STRING COUNT = 12, 6
FRET WIDTH, STRING SPACING = 50, 40
 FRETBOARD X, FRETBOARD Y = 100, 300
 def get_note(string, fret):
    start_index = notes.index(standard_tuning[string])
    return notes [(start_index + fret) % len(notes)]
   f draw_fretboard(highlight_string, highlight_fret):
    fretboard_w = FRET_COUNT * FRET_WIDTH
    fretboard h = (STRING COUNT - 1) * STRING SPACING + STRING SPACING
    pygame.draw.rect(screen, wood color, (FRETBOARD X, FRETBOARD Y, fretboard w, fretboard h))
    score, attempts = 0, 0
    string, fret = random.randint(0, 5), random.randint(0,12)
    correct note = get note(string, fret)
     clock = pygame.time.Clock()
```