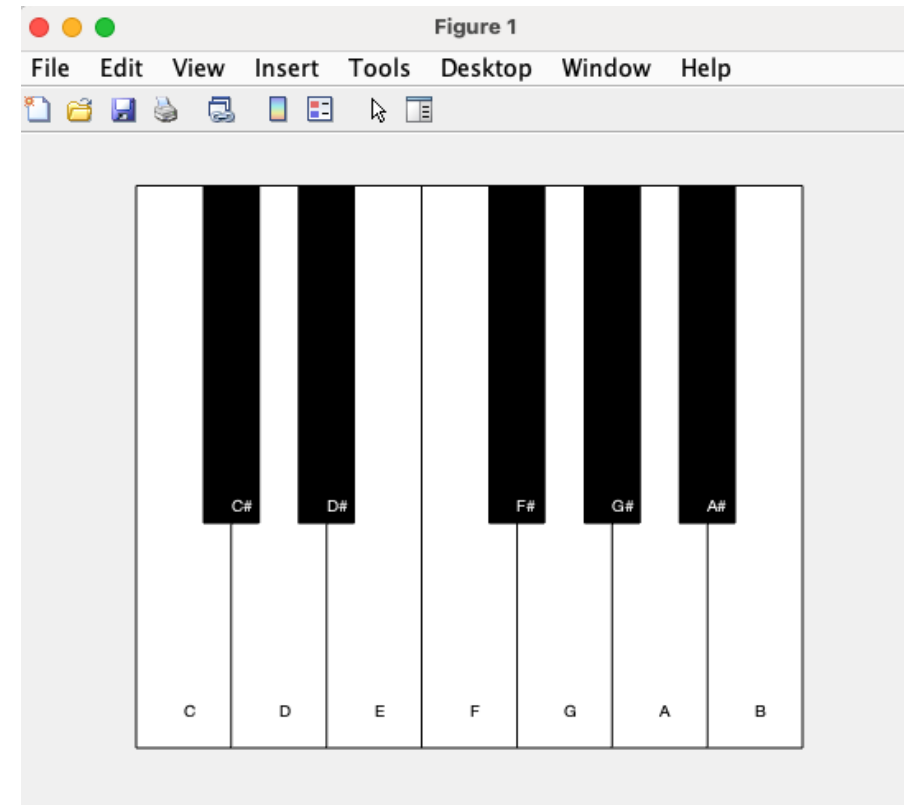


Description

I first draw the piano using rectangle, and then I found the frequency. The most tricky part is how to make the sound like a real piano. I searched online, and I found the video demonstrating the wave function. I created a function script to get the wave and using a for loop to call it. Then the sound is good. The other part that hindered me is how to let the sound match the key. I set the frequency index in the for loop to draw the rectangle, so that I can match the key. I checked the tunes with the sample given in the instruction (the link), and they are nearly the same.

Program Output



What extras did you include?

I used a function instead of harmonics to make the piano sounds like a real piano

What is a specific skill that you wish you knew before starting this class?

I searched a lot of things on how to use the call back function. Actually, there isn't any specific instructions on how to use the call back function, so I had to watch several videos to get a sense of how to use it, which is the most time I spent on this project.

What other topics would you have liked to have learned more about in ME 160/260?

I hope we can have more content about how to draw figures. Mostly, I use MATLAB to draw diagrams that are hardly made by hand. To be more specific, we can learn things about the movie or video making using MATLAB.