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Python | Playing audio file in Pygame

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Game programming is very rewarding nowadays and it can also be used in advertising and as a teaching tool too. Game development includes mathematics, logic, physics, AI and much more and it can be amazingly fun. In python, game programming is done in `pygame` and it is one of the best modules for doing so.

Note: For more information, refer to [Introduction to pygame](#)

In order to play music/audio files in `pygame`, `pygame.mixer` is used (`pygame` module for loading and playing sounds). This module contains classes for loading Sound objects and controlling playback. There are basically four steps in order to do so:

- **Starting the mixer**

```
mixer.init()
```

- **Loading the song.**

```
mixer.music.load("song.mp3")
```

- **Setting the volume.**

```
mixer.music.set_volume(0.7)
```

- **Start playing the song.**

```
mixer.music.play()
```

Below is the implementation.

```
from pygame import mixer
```

```
# Starting the mixer
```

```
mixer.init()

# Loading the song
mixer.music.load("song.mp3")

# Setting the volume
mixer.music.set_volume(0.7)

# Start playing the song
mixer.music.play()

# infinite loop
while True:

    print("Press 'p' to pause, 'r' to resume")
    print("Press 'e' to exit the program")
    query = input(" ")

    if query == 'p':

        # Pausing the music
        mixer.music.pause()
    elif query == 'r':

        # Resuming the music
        mixer.music.unpause()
    elif query == 'e':

        # Stop the mixer
        mixer.music.stop()
        break
```

Output:

```
Press 'p' to pause, 'r' to resume
Press 'e' to exit the program
r
Press 'p' to pause, 'r' to resume
Press 'e' to exit the program
p
Press 'p' to pause, 'r' to resume
Press 'e' to exit the program
r
Press 'p' to pause, 'r' to resume
Press 'e' to exit the program
e
```

This code will also play the “song.mp3” file.

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