

Do Now

Name your 3 favorite songs. For each, find information about the following:

- Song name
- Artist
- Album
- Year Released

Record your answers on a piece of paper or in a Word doc!






Do Now (cont'd)

With the information you gathered, organize all of it in a way that makes sense so that the information is easily usable or easily understandable at first glance.

You can do so on paper or in the same document you started on.



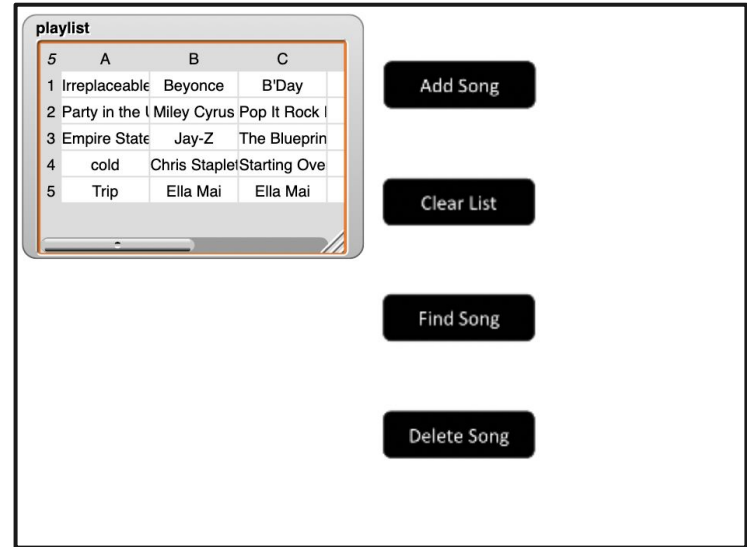
A list of lists, or a **nested list**, is a natural and helpful way to organize information

#	Song Name	Artist	Album	Year Released	Genre
1	Irreplaceable	Beyonce	B'Day	2006	Pop
2	Party in the USA	Miley Cyrus	Pop It Rock It 2: It's <u>On</u>	2009	Pop
3	Empire State of Mind	Jay-Z	The Blueprint 3	2009	Hip Hop
4	Cold	Chris Stapleton	Starting Over	2020	Country
5	Trip	Ella Mai	Ella Mai	2018	R&B

Activity: Playlist App

In a new *Snap!* Project, create a **program** that will do the following:

- ask the user for data to be inputted into a list and store the data inputted as a list of lists
- ask the user if they want to clear the whole list and clear it
- ask the user which song they would like information for, access the list, and display to the user all songs with that information
- ask the user which song they would like to remove from the list and remove that song



Activity: Playlist App

Your playlist app will have:

- A reporter, “**playlist item**,” that organizes, assembles, and reports the following as a list:
 - *Song name* - *Year released*
 - *Artist* - *Genre*
 - *Album name*
- A reporter that selects each piece of the playlist item.
 - For example, “**title of song**” that selects and reports ONLY the song title from **playlist item**;
“**artist**,” that selects and reports ONLY the song title from **playlist item**.
- A playlist, named “**(Your Name)’s Playlist**,” that holds at least 5 **playlist items** of your choice.

playlist

5	A	B	C
1	Irreplaceable	Beyonce	B'Day
2	Party in the U.S.A.	Miley Cyrus	Pop It Rock
3	Empire State of Mind	Jay-Z	The Black Album
4	cold	Chris Stapleton	Starting Over
5	Trip	Ella Mai	Ella Mai

Add Song

Clear List

Find Song

Delete Song

Want to start from somewhere?

Use the starter code provided here:

<https://snap.berkeley.edu/snap/snap.html#present:Username=mswongbths&ProjectName=Playlist%20App%20Starter%20Project>



“Done?”

Think of ways to improve your playlist app. Consult a neighbor for some user feedback!

Some suggestions:

- ask the user which artist, genre, etc. they would like information for, access the list, and display to the user all songs with that information
- ask the user which song they would like to delete from the playlist

