

Remix 2: Missions 6-7

- Create a remix -- an original program -- based on Missions 6 & 7 (also Missions 3-5)

Remix Coding Project

Assignment:

Create a remix (your own original program) using the concepts from Mission 6 and 7 specifically. You will also use concepts from the earlier missions. Some suggestions are given below. Do as many remixes as you want to try.

Hints:

- Use the sandbox to code the remix project. The sandbox is found above the toolbox, in the lower left-hand corner.
- Start with a new file and remember to import your modules.
- The if statement is your friend! All of these remix programs can be accomplished with the use of several if statements.
- You can have several tabs open at the same time. Use your code from the last missions to guide you.



Mild

For a beginner or elementary school student

Instant gratification version of Personal Billboard. Set the 'choice' based on which button was pressed. Feel free to use all 6 buttons to allow up to 6 choices of pictures from your list. No need to increment/decrement variables - just set choice directly! Why scroll when you can jump immediately to the pic of your dreams?!

Example: Your program could do this:

[▶ Day2Remix Mild](#)

Hints:

This program is similar to your billboard, so use it as your guide.

- Edit your list to 6 items
- Use 6 if statements to set the value of choice, determined by which button is pressed

Example:

```
if buttons.was_pressed(BTN_A):
    choice = 0
```

Medium

For an intermediate programmer or middle school student

Multimedia CodeX. Each of the 6 buttons should show a unique pic and play a unique sound when pressed. Clear the display to BLACK and print "Press a button?" after each multimedia experience.

Note: You will need TWO lists - one for the pictures and one for the sounds. You can use the same

Example: Your program could do this:

[▶ Day2Remix Medium](#)

Hints:

This program is similar to your billboard, so use it as your guide.

- Edit your list to 6 items
- Create a second list of sounds, and put them in order to match the images
- Use your code from "billboard" to display the image

Spicy

For an advanced programmer or high school student

Multi-user Social Billboard! Users of your "Personal Billboard" product have been asking for a new killer feature... multi-user capability. Create a 2-person version, where button A selects user-A and button B selects user-B. Each user can scroll through their own personal list of pics, colors, texts, sounds, etc. (That means you'll need two lists!)

Example: Your program could do this:

[▶ Day2Remix Spicy1](#)

Extension:

You'll want the CodeX to indicate which user is currently selected. Use the "button LEDs" LED_A and LED_B to show this.

Example for button LEDs

```
leds.set(LED_A, True)
```

Turn on the LED above button A

Example: Your program could do this:

- Use the code from “billboard” to display the image:

```
my_image = my_list[choice]
```

```
if type(my_image) == tuple:
|   display.fill(my_image)
else:
|   display.show(my_image)
```

```
my_image = my_list[choice]
```

```
if type(my_image) == tuple:
|   display.fill(my_image)
else:
|   display.show(my_image)
```

- Add code here to play the sound, using the same choice variable

[▶ Day2Remix Spicy2](#)

Extension:

As a bonus, why not have a colorful “theme” to set the mood with colorful pixel LED vibes? Also, include code to stop the program when a specific button is pressed.

Example: Your program could do this:

[▶ Day2Remix Spicy3](#)

Extension:

Be creative and see what you can do by coming up with your own program.