

## Remix 1: Missions 1-5

- Create a remix -- an original program -- based on Missions 3, 4 and 5

Remix Coding Project		
<p><b>Assignment:</b></p> <p>Create a remix (your own original program) using the concepts from Mission 3, 4 and/or 5. Some suggestions are given below. Do as many remixes as you want to try.</p>	<p><b>Hints:</b></p> <ul style="list-style-type: none"> <li>• Start with a new file and remember to import your modules.</li> <li>• There are two ways to check for a pressed button (was_pressed and is_pressed). If the one you are trying doesn't work like you think it should, try the other one.</li> <li>• You can have several tabs open at the same time. Use your code from the three missions to guide you.</li> </ul>	<p><b>IMPORTANT:</b></p> <ul style="list-style-type: none"> <li>• Code the remix project in the sandbox – not a mission! There are not any objectives associated with the remix.</li> <li>• The sandbox is found above the toolbox, in the lower left-hand corner.</li> </ul> 
<p><b>Mild</b> <i>For a beginner or elementary school student</i></p> <p>Add a voice prompt for the game created in Mission 4. After each display.print() the CodeX should audibly prompt the user which button must be pressed.</p> <p><b>Example:</b> Your program could do this:  <a href="#">Day1Remix Mild</a></p>	<p><b>Medium</b> <i>For an intermediate programmer or middle school student</i></p> <p>Create turn signals for a bicycle. Press button A to turn left, button B to turn right. The signal (Pixel LED 0 or 3) should be bright RED and blink at least 4 times in the direction of the turn.</p> <p><b>Note:</b> since we haven't learned about loops yet, the cyclist will need to run the program every time after signaling a turn with the A or B buttons.</p> <p><b>Example:</b> Your program could do this:  <a href="#">Day1Remix Medium</a></p> <p><b>Extension:</b> Put your code in an infinite loop so you don't have to run it multiple times. Use the code example in "Spicy" to create an infinite loop.</p> <p><b>Example:</b> Your program could do this:</p>	<p><b>Spicy</b> <i>For an advanced programmer or high school student</i></p> <p>Pandora's CodeX. A "box of buttons" lies before you. Make each button cause a different action when pressed. For example, button A could play a sound, while button B could light some LEDs. There are 6 buttons, so choose wisely my friends!</p> <p><b>Note:</b> For this remix, an infinite loop will be handy. The form in Python is as follows. All the code that runs inside the loop must be indented at the same level starting on the next line after the colon:</p> <pre>while True:     pressed =     buttons.was_pressed(BTN_A)     ...etc.</pre> <p><b>Example:</b> Your program could do this:</p>

 [Day1Remix MediumLoop](#)

 [Day1Remix Spicy](#)

**Extension:**

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