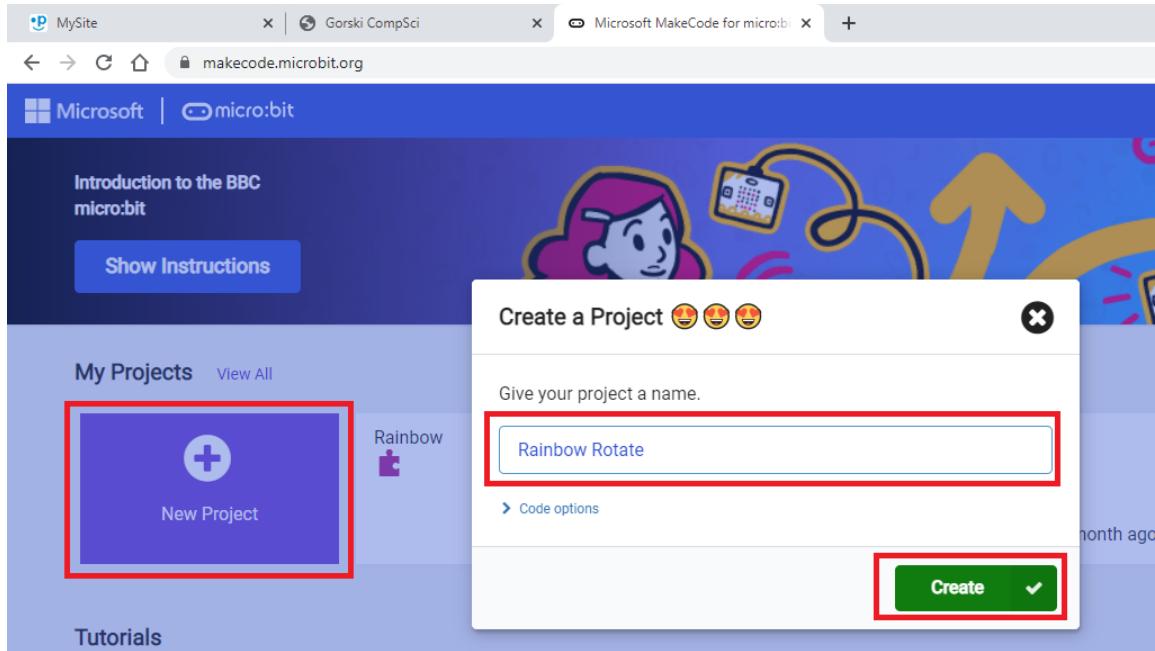


## Rainbow Rotate

When finished, the program looks lie this: <https://youtu.be/K2g8ry9HwEQ>

1. First go to Microbit's make code: <https://makecode.microbit.org/>

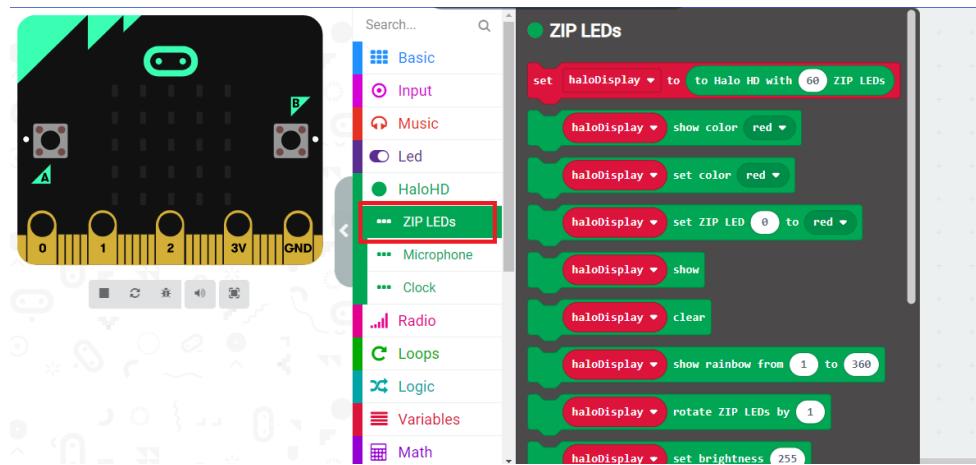
2. Make a new project:



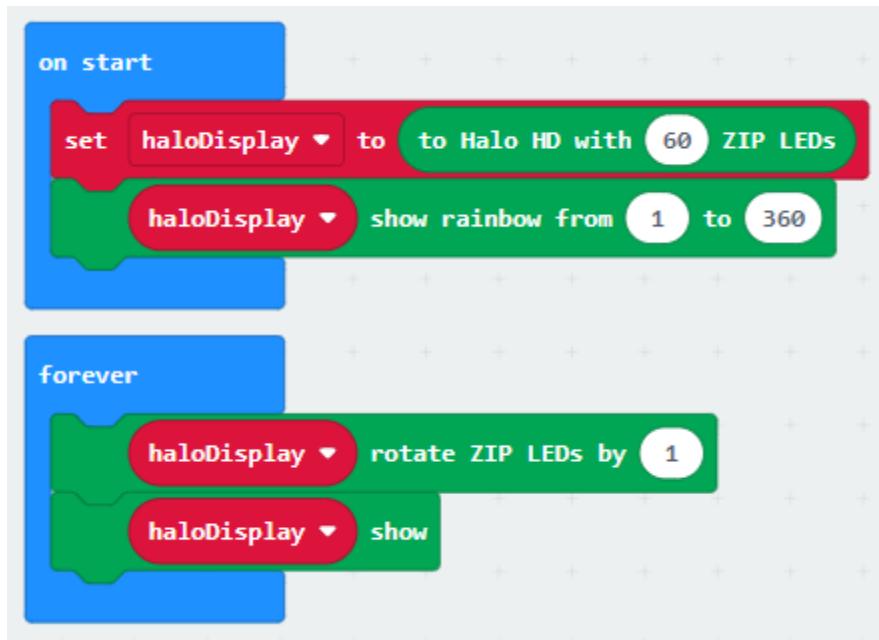
3. We need to add additional code to make the light wheel work.

<p>(a) Choose to add an extension:</p> <p>The screenshot shows the MakeCode extension library. On the left, there's a sidebar with various categories like Logic, Variables, Math, Advanced, Functions, Arrays, Text, Game, Images, Pins, Serial, Control, and Extensions. The 'Extensions' tab is highlighted with a red box. On the right, there's a search bar with 'kitronik' typed into it, and three extension cards displayed: 'kitronik-servo-lite', 'kitronik-motor-driver', and 'kitronik-halohd'. The 'kitronik-halohd' card is also highlighted with a red box.</p>	<p>(b) Type “Kitronik” then search. Choose the “kitronik-halohd” extension.</p> <p>The screenshot shows the MakeCode extension library results for 'kitronik'. The 'kitronik-halohd' extension is highlighted with a red box. It features a circular image of a BBC micro:bit board with a rainbow light wheel attached, and the text 'Custom Blocks for driving the Kitronik Halo HD for the BBC'.</p>
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4. Under HaloHD, choose the ZIP LEDs and you will be able to find the blocks that you need.



5. Create the following program:



6. Plug in the microbit. Connect the microbit to your computer.



7. Run the code. Show it to Ms. Gorski when you are done.