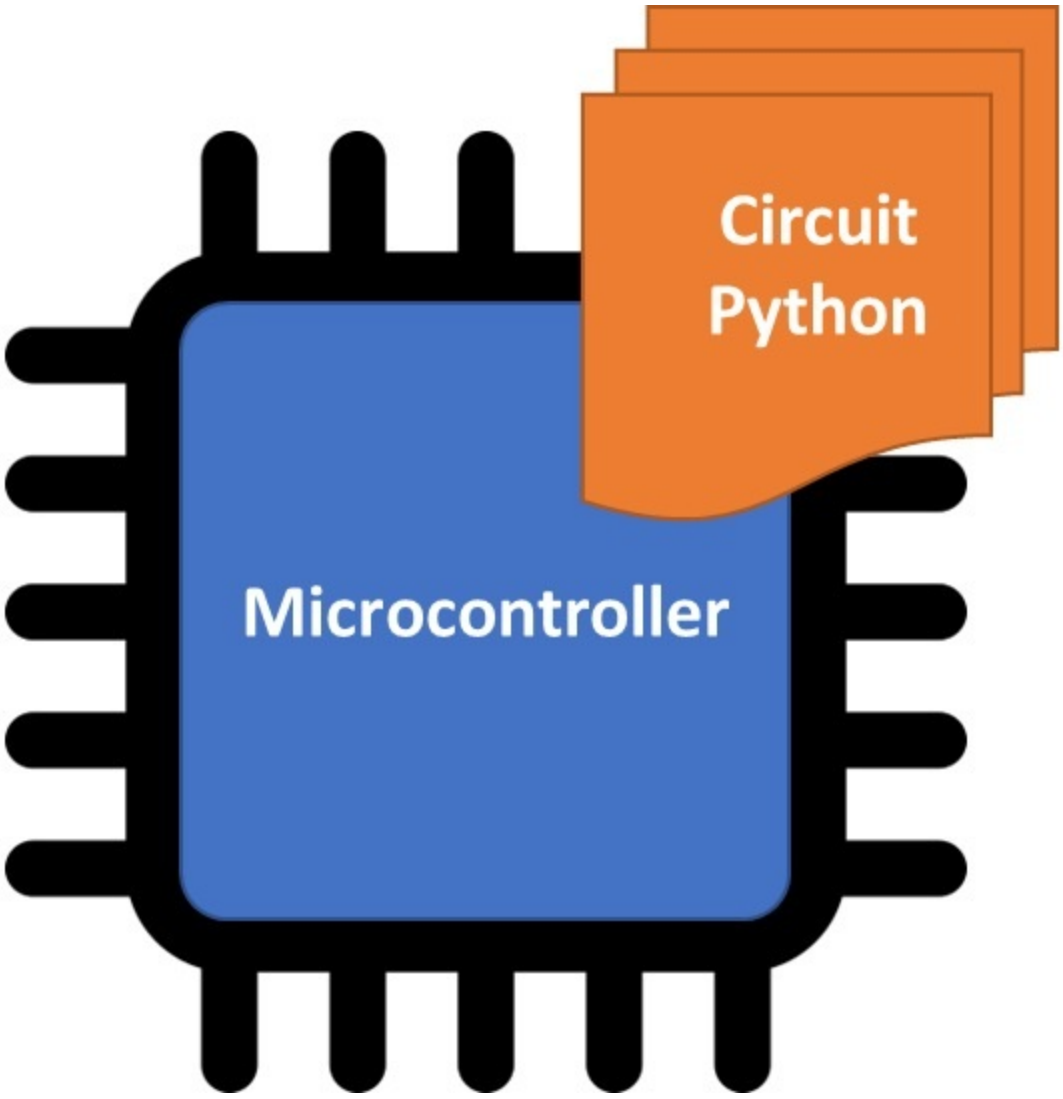
Circuit Playground Express with MakeCode

Written By: Kate Cheville

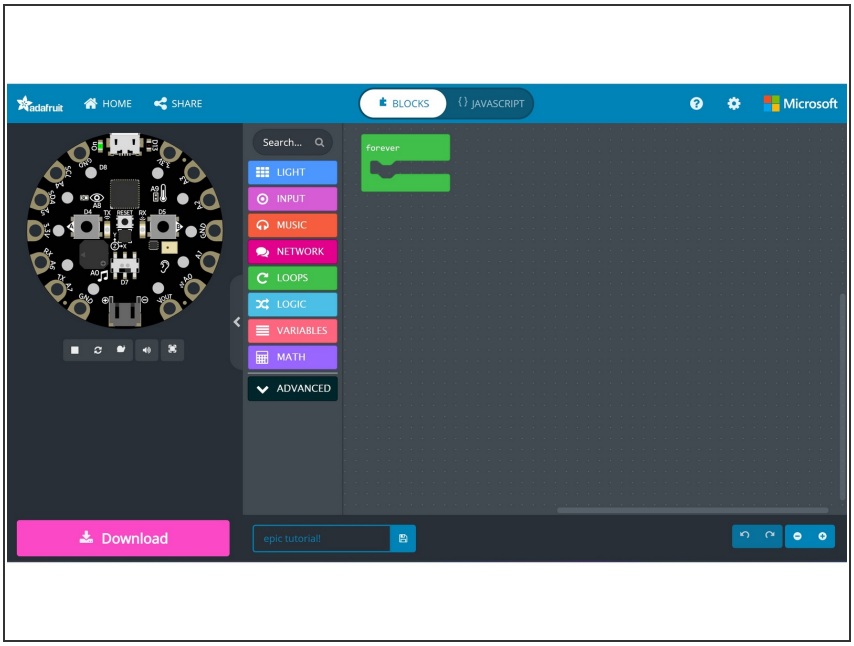


INTRODUCTION

Learn to use MakeCode and the Circuit Playground Express! MakeCode is a code editor that is easy to use, even with no coding experience!

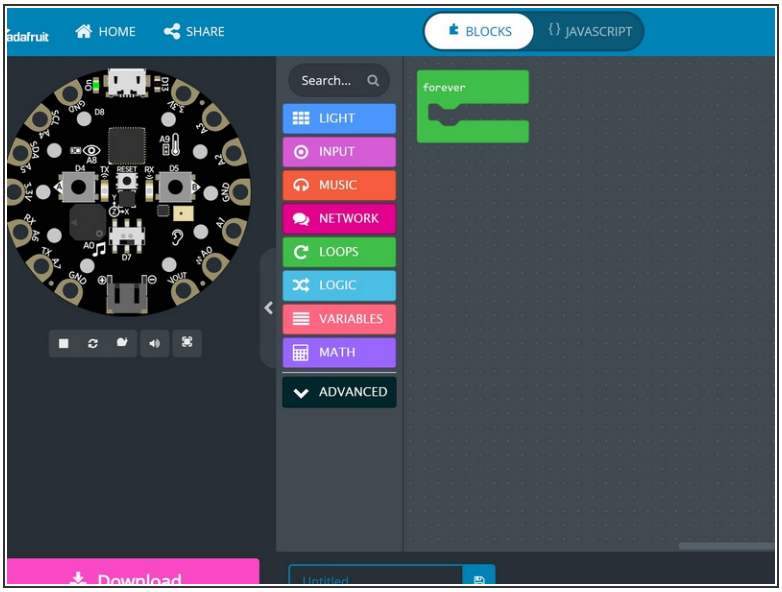
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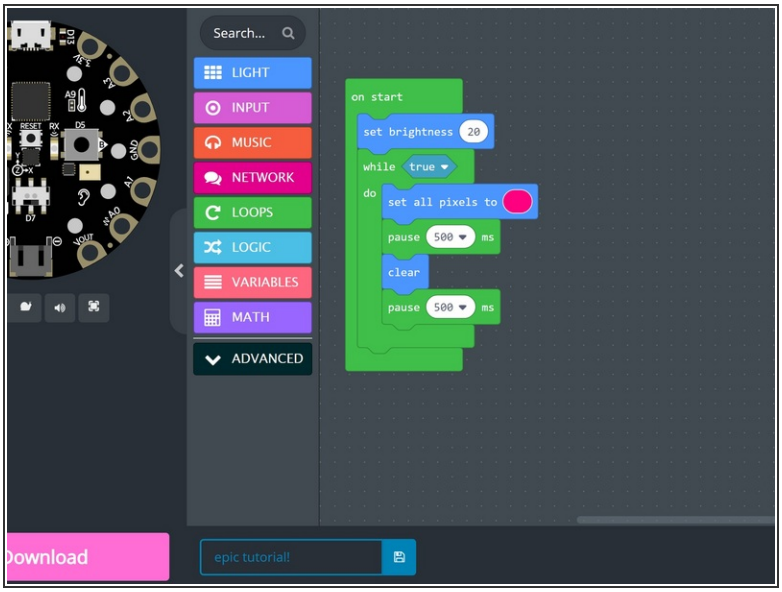
Step 1 — Opening MakeCode



- Go to http://makecode.adafruit.com
- Create a new project. MakeCode will open the code editor
  - The left side shows the Circuit Playground. You can hit the play button to simulate your code!
  - The middle menu is where you select code blocks
  - The right side is where you'll write code by dragging and dropping.

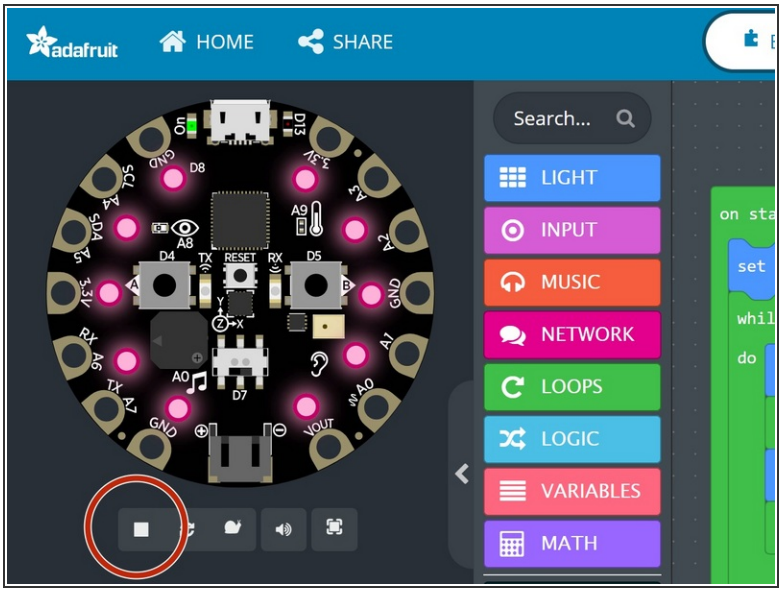
Step 2 — Blinking the leds

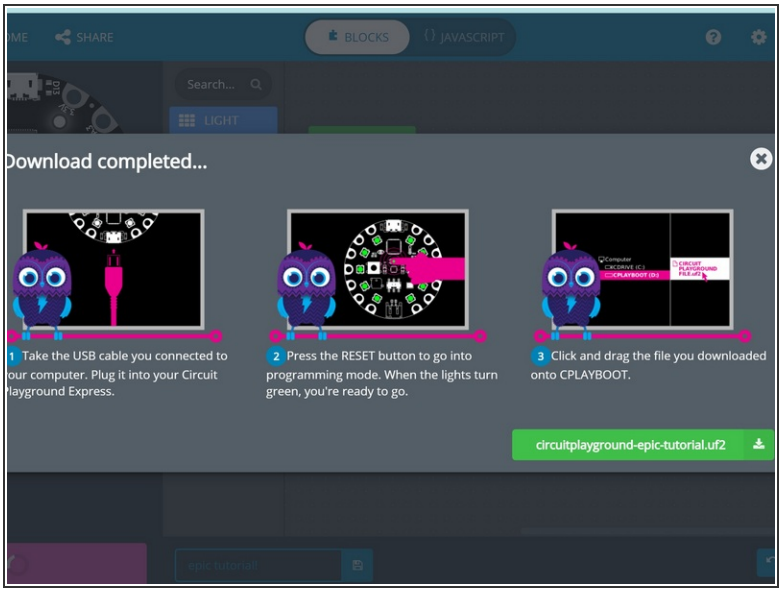




- Delete the green block that is there by default.
- From the loops menu, drag an "on start" loop out. Then, from the light menu, drag out a "set brightness" block. Drop it into the loop and set the brightness.
- From the loops menu, drag and drop a "while true, do" loop into the previous loop under the "set brightness" block.
- From the light menu, drop a "set all pixels to..." block into the while true loop. Change the color to whatever you'd like.
- Insert a pause from the loops menu. change the duration to at least 500 ms.
- Add a "clear" block from the light menu after the pause. you may have to scroll down to find it.
- Insert one more pause after the clear block. Change the duration again

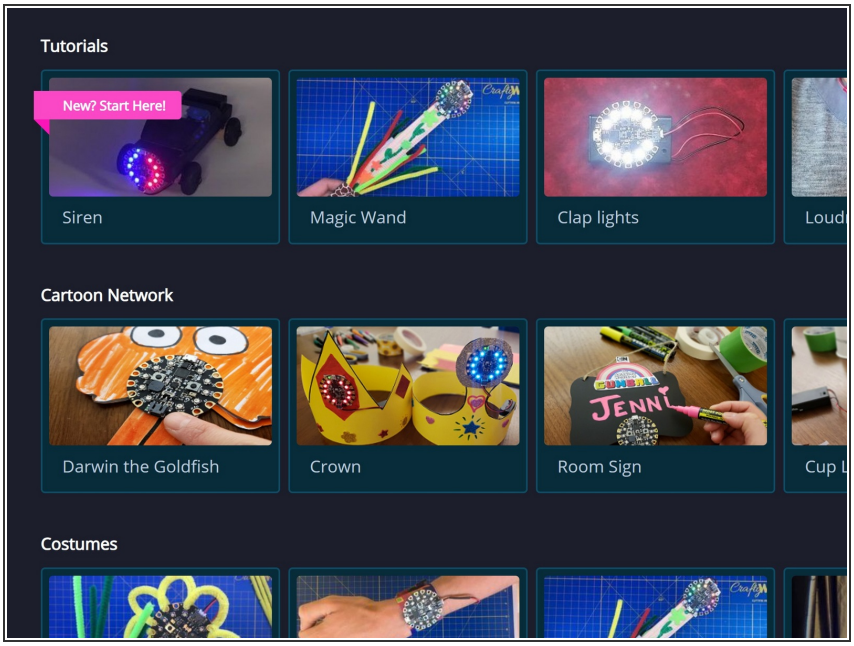
Step 3 — Uploading code





- Check that your code works by hitting the play/pause button under the board on the right side of the screen.
- Download the code and follow the instructions in MakeCode
- Your code should now be running on the Circuit Playground!

Step 4 — Next Steps



- On the main MakeCode page for the Circuit Playground, there are tons of tutorials and project ideas
- Play around with the editor and board to see what you can make!

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