



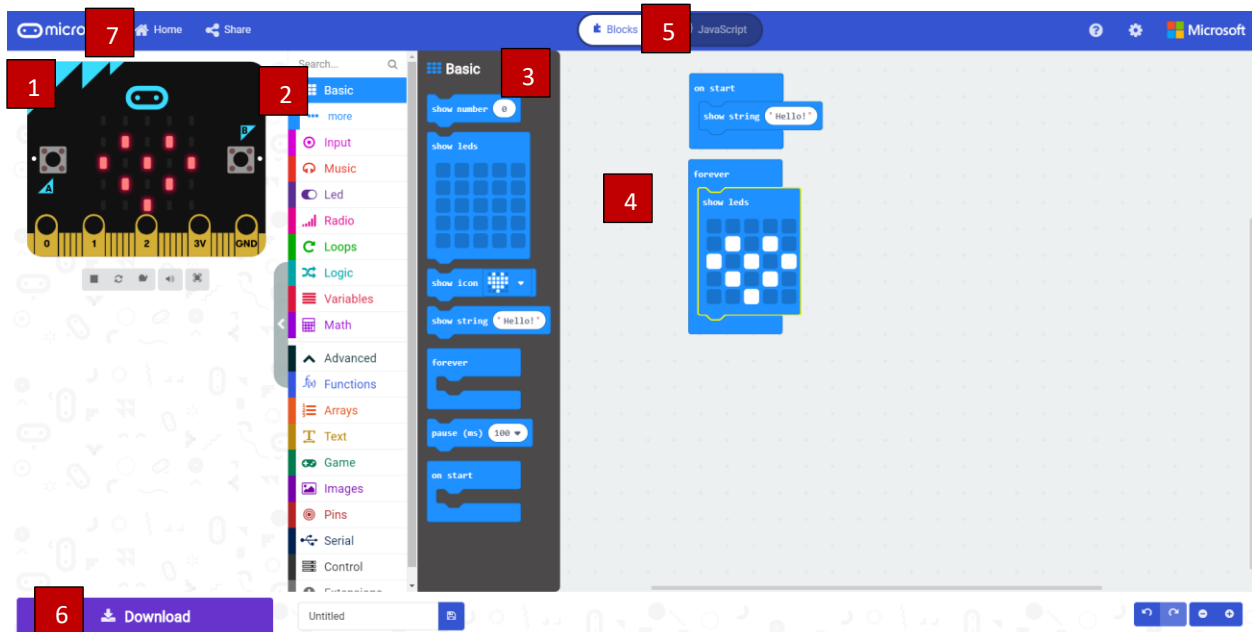
Wildcat Code

micro:bit

Getting Familiar with Microsoft MakeCode Tool:

Microsoft's MakeCode Tool uses the block coding language when working with the micro:bits. Familiarize yourself with the tool and programming language used in the Microsoft MakeCode Tool.

Before we begin coding with the Micro:bit, we need to get familiar with Microsoft MakeCode Tool. Some of you are familiar with Scratch, which is very similar and was provided through the "Hour of Code" section on Code.org. Nevertheless, we will briefly go over the basics of the Microsoft MakeCode Tool.



1. This section of the program allows you to visually see how your code interacts with the micro:bit. The micro:bit is interactive as if you were physically handling it by allowing you to click the A & B button and as well as adding an interactive button, that would simulate a shake on the micro:bit. Furthermore, displaying what the LED lights would portray on the micro:bit.
2. This section of the program is where your different categories of commands will be found. They vary from basic to advanced commands for the micro:bit that you can explore.

3. This section of the program shows you the different coding blocks you can use to program the micro:bit. Different coding blocks are displayed depending on each category.
4. This is the work area of the program, where you build your code using the blocks to program what commands you want the micro:bit to do. When working on your coding program, you can see how your program interacts with the micro:bit in section 1.
5. With the Microsoft MakeCode Tool there are two coding language options that can be set. As you can see in this section, the two options are the more simple coding language known as blocks and a more advanced programming language known as JavaScript.
6. Here is where you would download your micro:bit program as a hex file once you are done with your program. You can also name your file with the option next to the “Download” button.
7. In this area of the program, there are three different tabs. The first one displays the micro:bit logo which takes you back to the micro:bit website when clicked. The second tab is where you can find previously saved projects, as well projects that micro:bit provides with tutorials and examples of different projects that can be done. The third tab is to publish your project.

Under the “Home” tab, you can find all your previously saved projects. Furthermore, there are also tutorials games, project idea, courses, and videos as seen in the image below.

