

INTRODUCTION TO JAVASCRIPT FUNCTIONS

FUNCTIONS

Generally speaking, a function is a "subprogram" that can be called by code outside of the function. A function is composed of a sequence of statements, just like any other program.

Values can be *passed* to a function as input, while the function can also *return* values as output.

To call a function, simply type the name of the function in your text editor followed by a pair of brackets. The values that we want to pass to the function are listed inside these brackets. A standard function call with two inputs and no output looks like so:

FunctionName(input], input 2);

If you want to read more about JavaScript functions in more detail, check out this resource created by Mozilla:

 https://developer.mozilla.org/en-US/docs/Web/JavaScript/ Guide/Functions



In this subsystem, all of the functions that we need to solve our problem have been defined for us. These two functions are LeftWheel() and RightWheel().

We can call as many functions as we like, and they will run in order from top-to-bottom, but don't forget to add a semicolon (;) at the end of each line.

LeftWheel(speed)

The LeftWheel() function tells the line following robot to start turning its left wheel at the speed given between the brackets.

A positive input rotates the wheel forward, while a negative input rotates the wheel backward. The largest magnitude for the speed of the wheel is 1. The range of possible speeds is therefore -1 to 1.

An input of zero stops the wheel.

RightWheel(speed)

The RightWheel() function operates the same as the LeftWheel() function but for the right wheel.