What’s the difference between a for loop and a while loop?

A for loop runs a string of code against a test until it proves false. The test contains an initialized variable that iterates as the loop updates. Eventually, the loop will test false, as the iteration ensures a set number of updates before the limit of the test is exceeded. A while loop contains only the test part, and whether the expression tests true or false is determined by other lines of code.

What’s the difference between parameters and arguments?

A parameter is a local variable inside of a defined function, while an argument is the value either assigned to a parameter, or inserted inside the definition in its place.

What’s the difference between a class and an object?

A class defines a mold for/characteristics of an object, whereas an object is one instance of the traits defined in the class.

What is a constructor function? What does it do and when?

A constructor function is used inside a class to instruct the creation of a new object and initialize the class’s variables.

Why should each class have its own tab in Processing?

Storing each class in a different tab in Processing makes it easy to organize and find the code inside a class if changes need to be made.

What’s the difference between an array and an ArrayList?

Aside from superficial differences, an ArrayList is more flexible than an array in its size and requires less code to run.

Why would you want to go through a list backwards, decrementing the index?

Going through an ArrayList backwards allows the user to remove the last item in the list, without changing the other items in the list.

When should you use PVector instead of float variables?

PVector is best used in place of float variables to calculate the speed, position and trajectory of objects.

What is a normalized vector, why is it useful?

A normalized vector is a vector with a unit length of 1, which makes it easy to scale up or down.