

1. What are the different loops JavaScript provides us with?

There are 5 main types of loops in the JavaScript language. In this bootcamp during week 2, we primarily focus on 3 of them - For, While, and Do-While. Loops are helpful when you need to run a set of code more than once. For loops are used when you know how many times you want to run the loop. While loops are useful when you know when, but not necessarily an exact number of times, you want the loop to end. The do-while loop will run once and then continue to run until a certain condition is met. There are two more for loops - for-in and for-of. The for-in loop is used for properties of an object. The for-of loops are used for values of an object. All have their own syntax to follow based on the variables and conditions used and iterations needed. Essentially, the code will continue to run until the condition has been met.

2. What is your favorite thing you learned this week?

This week was challenging but fun for me!! Having absolutely no programming experience, loops and conditionals were completely new to me. At first it was a lot to take in, but once I got to study and watch videos on each segment in a more broken down manner, I knew it was going to be a fun and insightful week. My favorite thing I learned - and am still learning - was loops! The challenge of being given a set of “rules” and having to figure out the structure and logic of my code to achieve those rules was fulfilling. I love a good puzzle, and I think that is why I enjoyed learning loops this week. The advanced game problem in the Open Class assignment truly stumped me, but working through it line by line and finally solving it brought so much joy. I know I have so much more to learn - so many other scenarios to work through - but it excites me, which is exciting!

<https://www.voidcanvas.com/all-type-of-loops-in-javascript-a-brief-explanation#forin>  
[https://www.w3schools.com/js/js\\_loop\\_while.asp](https://www.w3schools.com/js/js_loop_while.asp)