Introduction to JavaScript

Week 2 Research

Janell Robisch

What are the different loops JavaScript provides us with?

1. While loops

2. For loops (including for...in and for...of loops)

3. Do While loops

What is the syntax of one of the loops in your above answer? How and when should you use this loop? Give an example.

1. **While Loop Syntax:** the variable must be defined; this is followed by a while statement, including a Boolean expression, and then the code to execute, surrounded by curly braces, like this:

var myVariable = 0;

while (myVariable < 6) {

console.log(“The number is less than 6.”);

}

While loops are good to use when you need to evaluate the Boolean expression before the code is executed and runs and loops through the code only if the expression evaluates to true.

What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.

2. **For Loop Syntax:** the for loop consists of three sections--the variable declaration, the Boolean expression, and the post-iteration--followed by the code to be executed, like this:

for (var myVariable = 0; myVariable < 5; myVariable++) {

console.log(‘My variable is now worth “ + myVariable);

}

For loops work well when you need to run code a certain number or times (for example, 100 times) or until a certain value is reached.

What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.

3. **Do While Loop Syntax:** In a Do While loop, the syntax includes the Do statement, followed by the code to be executed, and then concluding with the conditions in the form of the While statement, like this:

do {

i++;

console.log(“The number is now “ + i);

}

while (i < 100);

In contrast to While loops, Do While loops will always run at least once because the code is run before the conditions are tested. They will stop running when the Boolean expression at the end evaluates to false.

What is your favorite thing you learned this week?

Honestly, I liked realizing that writing code in something like VS Code, even when it is for the OpenClass assignments, saves time because it marks your errors, helping you find and correct them more easily. Otherwise, I really like getting into code that actually starts doing things in ways where I can see the possibilities of using JavaScript in combination with HTML and CSS, which I’m already passingly familiar with.