

Prompts

1. What are the different loops JavaScript provides us with? `for` statement
`do...while` statement `while` statement `for...in` statement `for...of` statement
`label` statement `break` statement `continue` statement
2. What is the syntax of one of the loops in your above answer? How and when should you use this loop? Give an example. The `for...of` statement creates a loop Iterating over iterable objects (including Array, Map, Set, arguments object and so on), invoking a custom iteration hook with statements to be executed for the value of each distinct property.

```
for (variable of object)
  statement
```

The following example shows the difference between a `for...of` loop and a `for...in` loop. While `for...in` iterates over property names, `for...of` iterates over property values:

```
const arr = [3, 5, 7];
arr.foo = 'hello';

for (const i in arr) {
  console.log(i); // logs "0", "1", "2", "foo"
}

for (const i of arr) {
  console.log(i); // logs 3, 5, 7
}
```

when should you use this loop? Only use this loop, when you intend to get the values of specific properties in an Object.

3. 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.

```
while (condition)
  statement
```

A `while` statement executes its statements as long as a specified condition evaluates to true. A `while` statement looks as follows:

```
let n = 0;
let x = 0;
while (n < 3) {
  n++;
  x += n;
}
```

4. 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.

```
label:  
    statement
```

the label statement lets you refer to

A label provides a statement with an identifier that lets you refer to it elsewhere in your program. For example, you can use a label to identify a loop, and then use the break or continue statements to indicate whether a program should interrupt the loop or continue its execution.

Not exactly a loop, but can be used as a way to create one. You can use this to go back to an earlier portion of code. This particular loop would be considered bad practice as functions should be used in its place.

5. What is your favorite thing you learned this week? Favorite thing I learned is the versatility of loops and the number of them that exist.

Citations

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