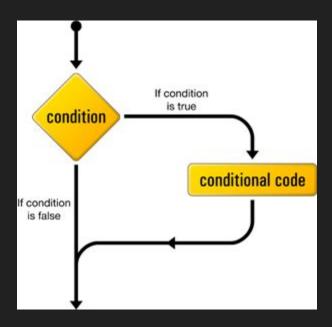
JavaScript

Part 2

Conditional Execution

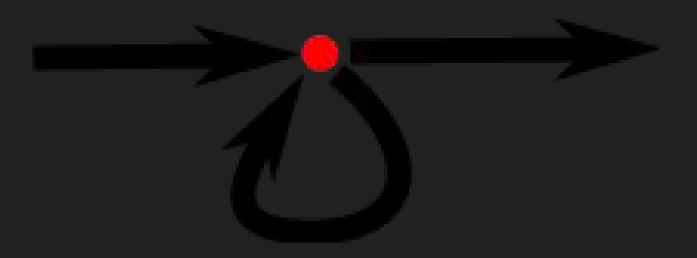


Conditional Flow

```
if (theNumber < 10) {
   console.log("Small");
} else if (theNumber < 100) {
   console.log("Small");
} else {
   console.log("Large");
}</pre>
```







```
var num = 0;
while (num < 12) {
    console.log(num);
    num = num + 2;
}</pre>
```

```
for(var num = 0; num <= 12; num = num + 2) {
    console.log(num);
}</pre>
```

```
for(var num = 0; num <= 12; num += 2) {
   console.log(num);
}</pre>
```

Capitalization

coolNewVariable

coolnewvariable

cool_new_variable

CoolNewVariable

Challenge #1

Write a loop that makes seven calls to console.log to output the following triangle:

```
#
##
###
####
#####
######
```

Challenge #2

Write a program that uses console.log to print all the numbers from 1 to 100, with two exceptions. For numbers divisible by 3, print "Fizz" instead of the number, and for numbers divisible by 5 (and not 3), print "Buzz" instead.

When you have that working, modify your program to print "FizzBuzz", for numbers that are divisible by both 3 and 5 (and still print "Fizz" or "Buzz" for numbers divisible by only one of those).

Functions

alert

What is the function of a function?

Defining functions

```
var square = function(x) {
    return x * x;
}
```

Exercise #1

• Write a power function that receives as arguments the base and the exponent and return base^exponent.

```
var power = function(base, exponent) {
    var result = 1;
    for(var count = 0; count < exponent; count++) {
        result *= base;
    }
    return result;
};</pre>
```

```
function power2(base, exponent) {
   var result = 1;
   for(var count = 0; count < exponent; count++) {
      result *= base;
   }
   return result;
}</pre>
```

Recursion

```
function power3(base, exponent) {
   if(exponent === 0) {
      return 1;
   }
   else {
      return base * power3(base, exponent-1);
   }
}
```

Exercise #2

Write a function that returns the min value between two numbers.

Training Program: https://www.freecodecamp.com

Day 1: Write Reusable JavaScript with Functions up to Understanding Boolean

Day 2: If Statements up to Golf Code

Day 3: Switch Statements up to Counting Cards