Lesson 3 – Functions

HTTP 5122

Front-End Web Development

"Almost everything will work again if you unplug it for a few minutes, including you."

-Anne Lamott,
ALMOST EVERYTHING

Functions

Key Concepts

- A function is a block of code that waits until it is called to execute.
- Functions can have parameters that act like variables within the function.
- Functions can return one value at the end of their logical operations.
- Functions can be used anywhere in our logic, and can be called from inside other functions.
- Variables declared inside a function cannot be "seen" outside of that function. Where a variable can be seen is referred to as scope.

```
if( thisThing === true ) {
   //Run this code if condition is
   true.
}
```

```
if (thisThing === true) {
   //Run this code if condition is
   true.
} else {
   //Run this code if not true
```

```
switch( thingToCompare ) {
    case "test":
        //Code to run for a match
        break;
```

```
for( var i = 0; i < 5; i++ )
   //Run this code with each
   iteration of the loop.</pre>
```

```
while( thisThingIsTrue === true ) {
    //Run this code until the
    running condition is not true.
}
```

A function is a block of code that waits until it is called to execute.

```
function doThis() {
   Code to run when this function
   is called.

Calling a function...
```

doThis();

doThis();

Functions can have parameters that act like variables within the function.

```
function doThis(one, two) {
   var z = one + two;
   alert(z);
}
Calling a function with parameters...
```

doThis(num1, num2);

Functions can return one value at the end of their logical operations.

```
function doThis(one, two) {
   var z = one + two;
   return z;
}
```

Calling a function with parameters & handling the return value...

```
var result = doThis(num1, num2);
```

Functions can be used anywhere in our logic, and can be called from inside other functions.

```
if (doThis(one, two) > 0 ) {
```

```
function getTotal(subtotal) {
  var total = addTax(subtotal);
```

Variables declared inside a function cannot be "seen" outside of that function. Where a variable can be seen is referred to as scope.

```
var myGlobalvar = "Global vars can be seen everywhere!";

function checkVars() {
    var myPrivateVar = "Private vars are only seen within the function!";
    //myGlobalvar CAN BE ACCESSED INSIDE OF HERE
    console.log(myGlobalvar + " " + myPrivateVar);
}

console.log(myPrivateVar);//says myPrivateVar is undefined.
```

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