

# **FEWD - Functions**

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# **Agenda**

- Food
- Review
- Anonymous Functions
- Practice!

# **Review**

**Functions - Review** 

### ##Functions Syntax

```
The name of your function Keyword.

Like the "var" keyword.

function functionName(arg1, arg2) {
   //Body of function
}
```

### **Function Calls**

```
function helloWorld() {
  console.log("Hello Functions");
}
helloWorld(); //Prints "Hello Functions to the console.

  The brackets execute the function.
  Try calling the function without them to see what happens.
```

## **Function Arguments**

```
Arguments let you pass data into the function

function functionName(arg1, arg2) {

//Body of function
}
```

The functions executed code goes between the { } brackets. Much like an "if" statement.

### **Function Arguments**

```
function addAndPrint(num1, num2) {
  var sum = num1 + num2;
  console.log(sum);
}

addAndPrint(1, 2); // Result is 3

addAndPrint(8, 2); // Result is 10
```

#### **Return Functions**

When you use the return keywork in a function. It sets an explicit output.

For instance:

```
function square(x) {
  return x * x
}

var foo = square(3);
```

What will foo equal?



**Cash Register** 

## **Anonymous Functions**

```
Using our example before:

x = 3
square(x) // 9
square(3) // 9
```

It doesn't matter if we pass in a variable which is equal to something, or that thing itself, it's the same result.

We could say that the 3 on the last line is anonymous - it doesn't have a name.

# **Anonymous Functions**

We can do the same with functions:

```
$(document).ready(start);

function start() {
   // Do stuff
}
```

Is exactly the same as:

```
$(document).ready(function() {
   // Do Stuff.
});
```

# **Anonymous Functions**

Or, with a jQuery click:

```
$('.button').ready(doThing);

function doThing() {
   // Do stuff when button is clicked.
}
```

Is the same as:

```
$('.button').ready(function() {
   // Do stuff when button is clicked.
});
```

# **Blackout!**

- Write a program that has a single button.
- When you click that button once, the entire page should turn black.
- When you click it again, the page should return to white.
- For extra points:
  - Make it so the background fades instead of going immediately.
  - Make it so it cycles through a set of colours, instead of just black and white.