



FEWD - FUNCTIONS

AGENDA

- Review
- Functions
- Anonymous Functions
- Async Functions
- Weather Application

REVIEW

- Data types
- Variables
- Conditionals

FUNCTIONS

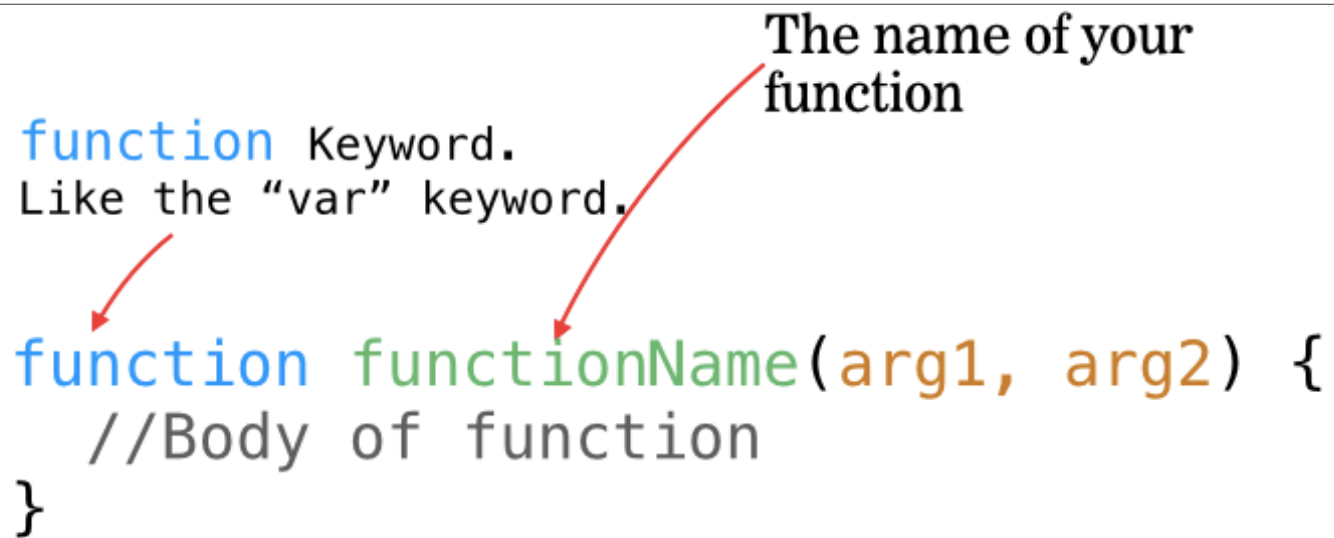
A JavaScript function is a block of code designed to perform a particular task. A JavaScript function is executed when "something" invokes it (calls it).

FUNCTIONS SYNTAX

`function` Keyword.
Like the "var" keyword.

The name of your function


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



FUNCTION CALLS

```
function helloWorld() {  
  console.log("Hello Functions");  
}
```

```
helloWorld(); //Prints "Hello Functions to the  
console.
```

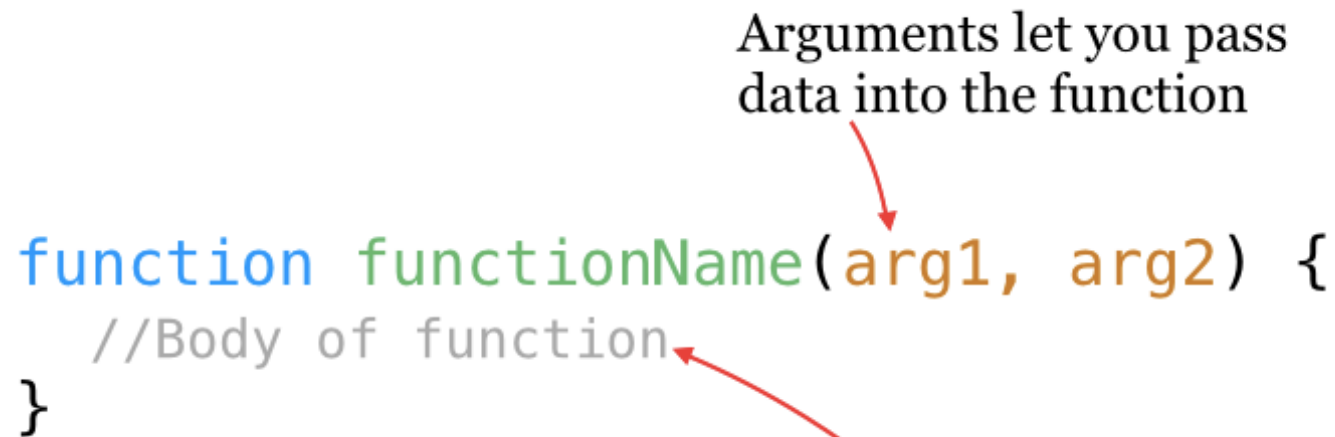


The brackets execute the function.
Try calling the function without
them to see what happens.

FUNCTION ARGUMENTS

Arguments let you pass data into the function

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

A diagram illustrating function syntax. A red arrow points from the text "Arguments let you pass data into the function" to the arguments "arg1, arg2" in the function signature. Another red arrow points from the text "The functions executed code goes between the { } brackets. Much like an 'if' statement." to the body of the function, which is the code between the curly braces.

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
```


FUNCTION ARGUMENTS - THE EVENT

```
$('.element-class').click(function(event) {  
  event.preventDefault();  
});
```

ORGANIZING FUNCTIONS

Does not need to be defined before called

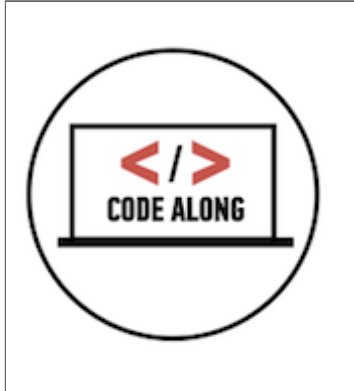
```
$('.element-class').click(clickHandlerFunction);  
  
function clickHandlerFunction() {  
  // Handle the click here!  
};
```

HTML FORM BASICS

```
<form>  
  <input type="text" class="text-input" />  
  <input type="submit" value="Submit" class="submit-button" />  
</form>
```

GETTING A INPUT VALUE WITH JQUERY

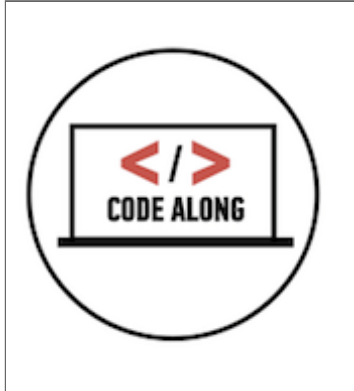
```
$('.submit-button').click(function() {  
    var textValue = $('.text-input').val();  
  
    console.log(textValue);  
});
```



CASH REGISTER

ANONYMOUS FUNCTIONS

```
$('.element-class').click(function() {  
  // Anonymous function because it has no name!  
});
```



ANONYMOUS CASH REGISTER

JQUERY AND CALLBACK FUNCTIONS

A callback function is a function that runs after an asynchronous function finishes.

ASYNC FUNCTION

Code that runs while your program keeps executing

JQUERY ASYNC EXAMPLE

```
$( 'p' ).slideDown();
```

```
$( '.button' ).text( 'New Text' );  
  
$( 'p' ).slideDown( 600 );  
  
$( '.element' ).addClass( 'blue' );
```

THE CALLBACK

```
$('#p').slideDown(600, function() {  
    // this code will run after the slide down animation is complete.  
});
```



TEMP CONVERTER

