

FEWD - FUNCTIONS

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AGENDA

- HW Review
- Functions
- Temperature Converter

HW REVIEW

FUNCTIONS

A function is a block of code (i.e.: a mini-program) assigned to a value and designed to perform a particular task. The code inside the function will only be executed when the function is *called* by external code.

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

Functions that explicitly return a value

RETURN FUNCTIONS

```
var firstNumber = document.querySelector("#first-number").value;
var secondNumber = document.querySelector("#second-number").value;

function pythagorean(num1, num2) {
   return (num1 * num1) + (num2 * num2);
}

function updateResult(num1, num2) {
   var result = pythagorean(num1, num2);
   document.querySelector("#result").innerHTML = result;
}

document.querySelector("#addButton").onclick = updateResult(firstNumber)
```

ORGANISING FUNCTIONS

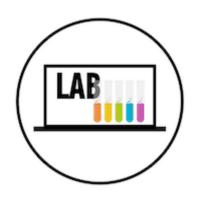
Where do you put functions?

Remember the three essential steps of working with JS:

- 1. Get the data you need and store it on a variable(s)
- 2. Specify how the data is going to be modified via a function
- 3. Hook it up: connect the function to the moment in *time* (a click **event**, a hover, upon typing into the input) in which it's meant to occur

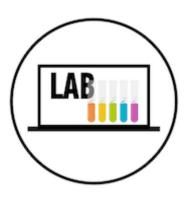


CASH REGISTER



TEMPERATURE CONVERTER

- if the temperature is below or equal to 0°C, turn the background blue
- if the temperature is above 0°C and below or equal to 18°C, turn the background grey
- if the temperature is above 18°C and below or equal to 30°C, turn the background orange
- if the temperature is above 30°C, turn the background red



TEMPERATURE CONVERTER

Other considerations:

- what happens when the "convert" button is clicked before either input has been filled out?
- what happens when the "convert" button is clicked and both inputs are filled out?

HOMEWORK

Complete Temperature Converter