Breaking

Javascript

Functions

by Shaun Kriel

Function: series of statements that are grouped together to perform a specific task or calculates a value.

Advanatges: Reuse, readability and encapsulation

they are **defined with the function keyword**

you can use a function **declaration or **expression****

Regular functions

#can return anything and always runs to completion after been invoked

```javascript
function name( parameter1, parameter2) {
    // code to executed
}
```

```javascript
function greeting() {
    document.write('Good Afternoon');
}
greeting(); // Good Afternoon
```

Functions

Good Afternoon

```javascript
function getArea(width, height){
    document.write (width * height);
}
getArea(3, 5); // 15
```

Functions

15

```javascript
function getArea(width, height){
    document.write (width * height);
}

wallWidth = 4;
wallHeight = 5;
getArea(wallWidth, wallHeight);
// 20
```

Functions

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Anonymous function

a function without a name stored inside a variable

```javascript
let getArea = function(width, height){
    document.write (width * height);
}
getArea(5, 6); // 30
```

Functions

30

Arrow function

an updated, modern , shorter syntax for functions

```javascript
let getArea = (width, height) => width * height;
document.write(5 * 3); // 15
```

Functions

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Immediately Invoked Function Expression (IIFE)

\# a function that executes immediatley after its defined

\# also known as a self-executing anonymous function

It contains two major parts:

1. function expression enclosed in parentheses () so that it can be parsed correctly
2. immediately calling the function expression. Arguments provided, though its common to not have

```
let getVolume = (function() {
    let x = 10;
    let y = 5;
    return x * y;
})();
document.write(getVolume);// 50
```

Functions

50

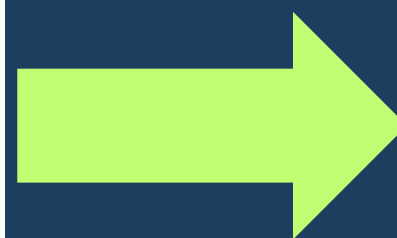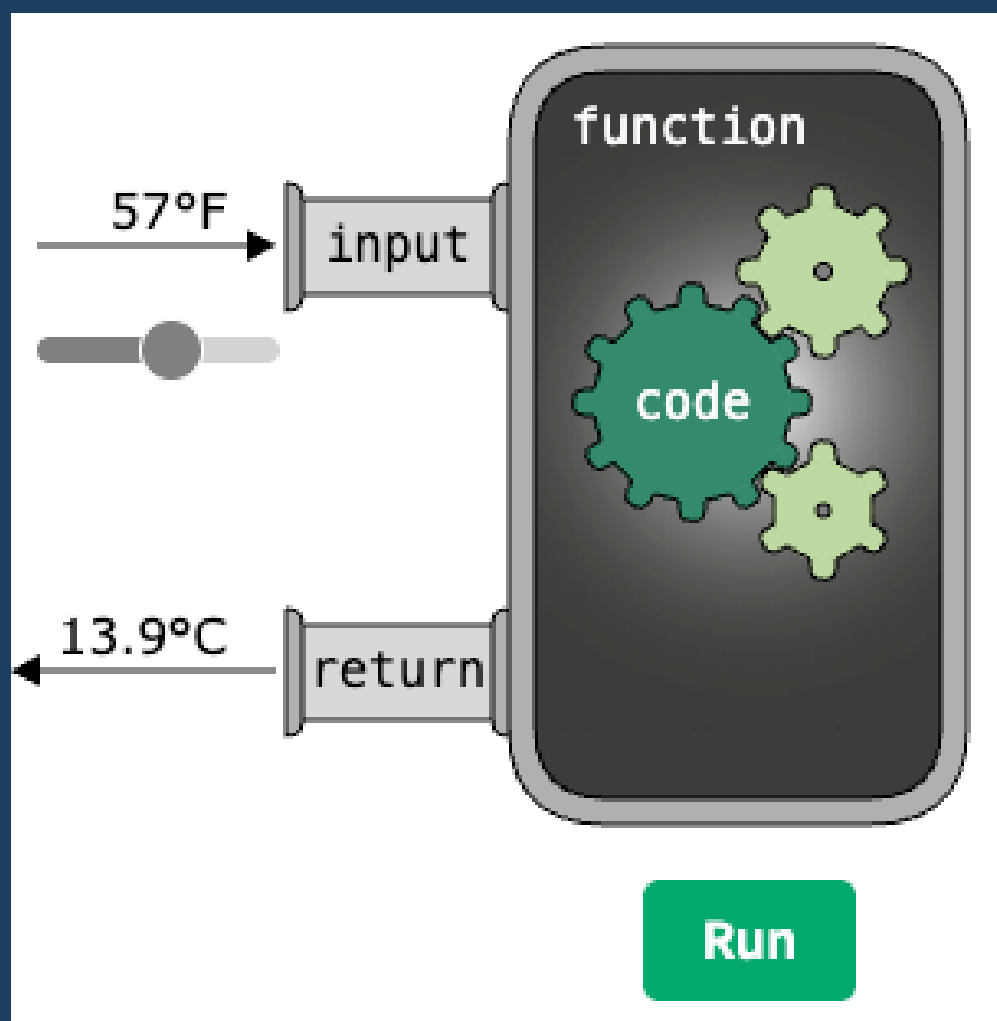# Callback Function

a function passed as an argument to another function

```javascript
function greet(fname, callback) {
    document.write('Good afternoon, ' + fname);
    callback();
}
function sayBye() {
    document.write('Goodbye!');
}
greet('Bob ',  sayBye);
// Good afternoon, Bob  Goodbye!
```

Functions

Good afternoon, Bob Goodbye!

Check out the link below at W3Schools for more about functions

57°F → input

function

code

13.9°C ← return

Run

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