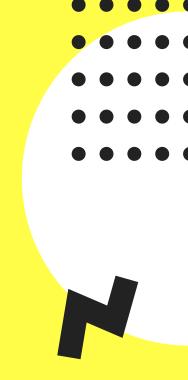


Web Developer Bootcamp

JavaScript Functions

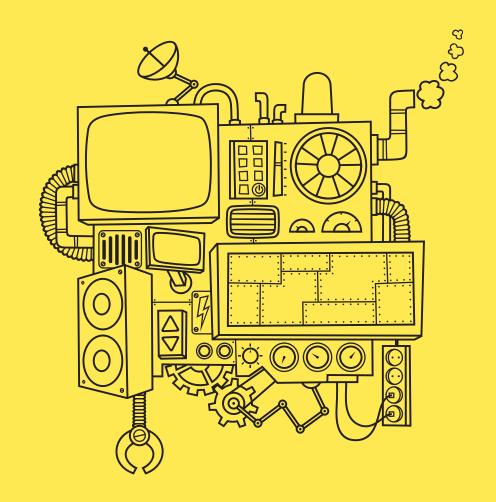
THE LAST "BIG" TOPIC!



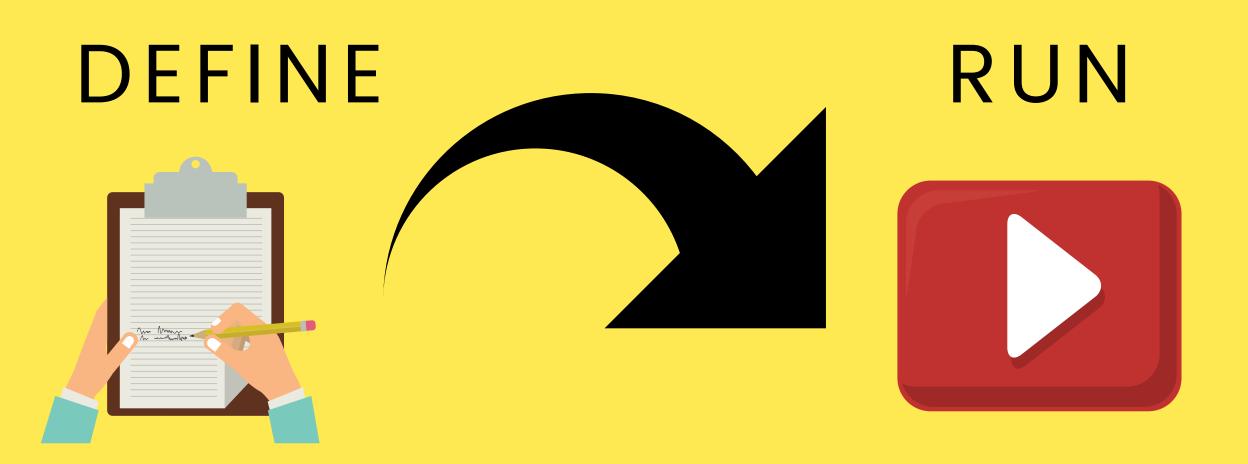
FUNCTIONS

Reusable procedures

- Functions allow us to write reusable, modular code
- We define a "chunk" of code that we can then execute at a later point.
- We use them ALL THE TIME



2 STEP PROCESS



DEFINE

```
function funcName(){
   //do something
}
```

DEFINE

```
function grumpus() {
   console.log('ugh...you again...');
   console.log('for the last time...');
   console.log('LEAVE ME ALONE!!!');
}
```

RUN

```
funcName(); //run once
funcName(); //run again!
```

RUN

```
grumpus();
//ugh...you again...
//for the last time...
//LEAVE ME ALONE!!!
grumpus();
//ugh...you again...
//for the last time...
//LEAVE ME ALONE!!!
```



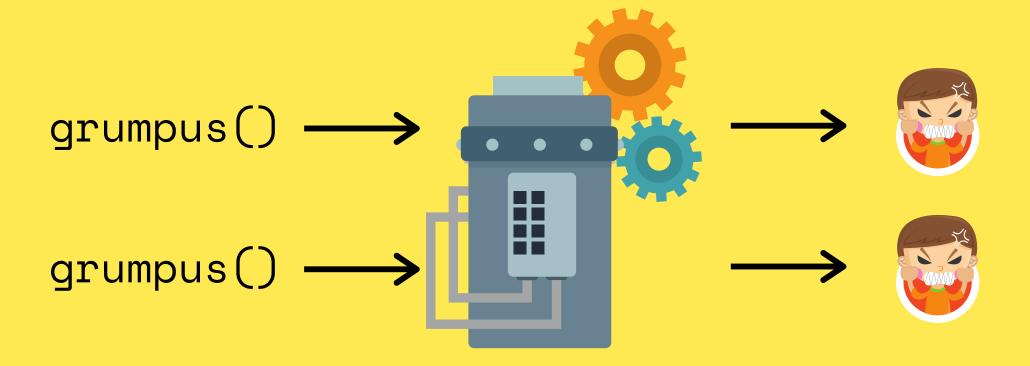


ARGUMENTS

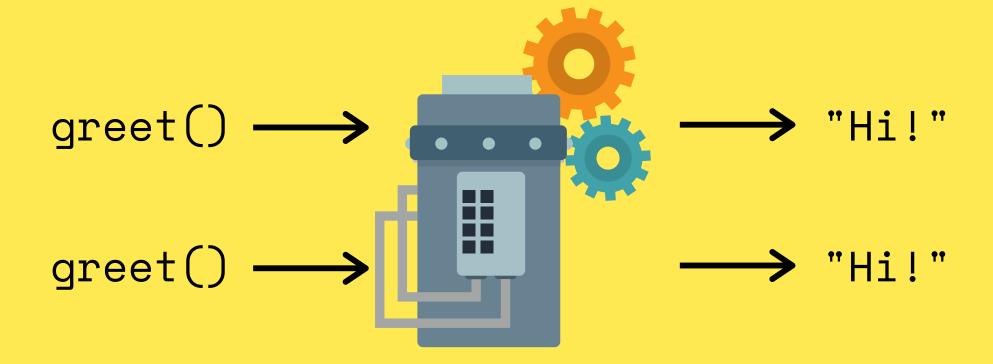
INPUTS

Right now, our simple functions accept zero inputs. They behave the same way every time.

NOINPUTS



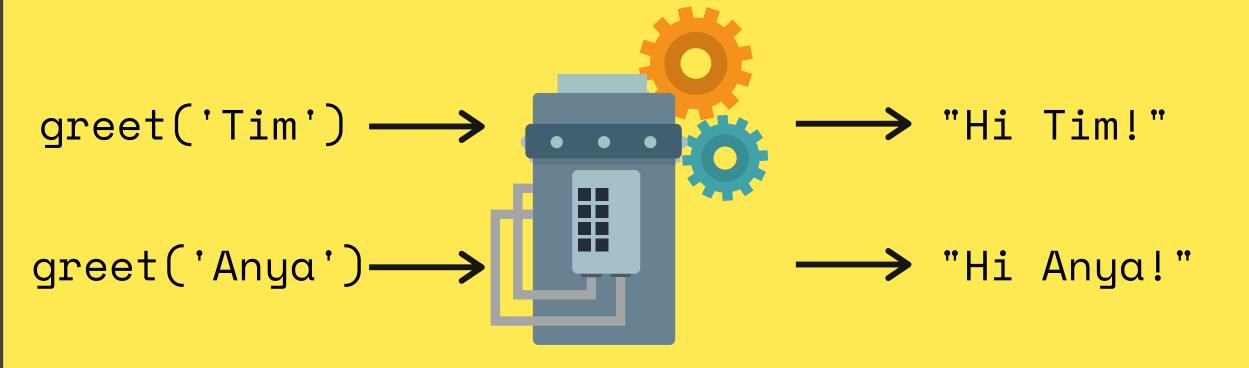
NOINPUTS



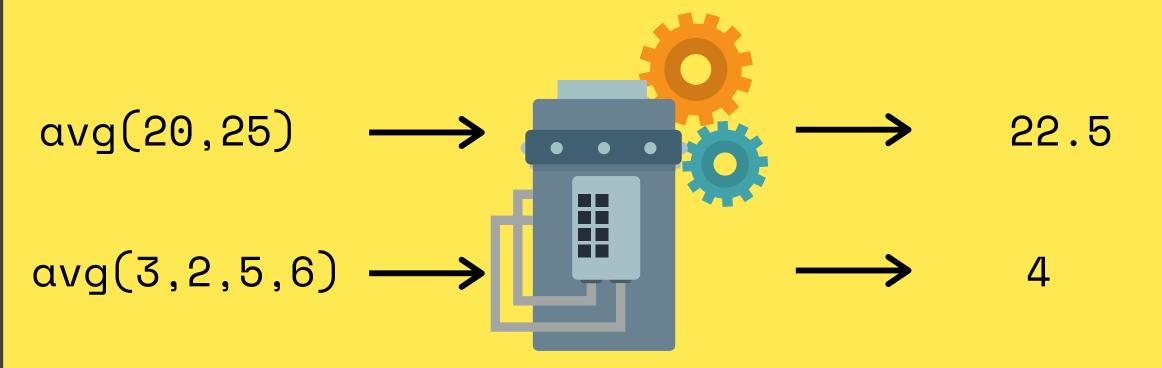
ARGUMENTS

We can also write functions that accept inputs, called arguments

ARGUMENTS



ONE MORE



We've seen this before

No inputs

```
//No input
"hello".toUpperCase();
```

Arguments!

```
//Different inputs...
"hello".indexOf('h'); //0
//Different outputs...
"hello".indexOf('o'); //4
```

GREET TAKE 2

```
function greet(person) {
  console.log(`Hi, ${person}!`);
}
```

```
ooo
greet('Arya'); → "Hi, Arya!"
```

```
greet('Ned'); 

"Hi, Ned!"
```

2 ARGUMENTS!

```
function findLargest(x, y) {
    if (x > y) {
        console.log(`${x} is larger!`);
    else if (x < y) {
        console.log(`${y} is larger!`);
    else {
        console.log(`${x} and ${y} are equal!`);
```

```
findLargest(-2,77)
   "77 is
  larger!"
findLargest(33,33);
 "33 and 33
 are equal"
```

RETURN

Built-in methods return values when we call them.

We can store those values:

```
const yell = "I will end you".toUpperCase();
yell; //"I WILL END YOU"
const idx = ['a', 'b', 'c'].index0f('c');
idx; //2
```

NO RETURN!

Our functions print values out, but do NOT return anything



```
function add(x, y) {
    console.log(x + y);
const sum = add(10, 16);
sum; //undefined
```



FIRST RETURN!

Now we can capture a return value in a variable!



```
function add(x, y) {
    return x + y; //RETURN!
const sum = add(10, 16);
sum; //26
const answer = add(100, 200);
answer; //300
```



RETURN

The return statement ends function execution AND specifies the value to be returned by that function