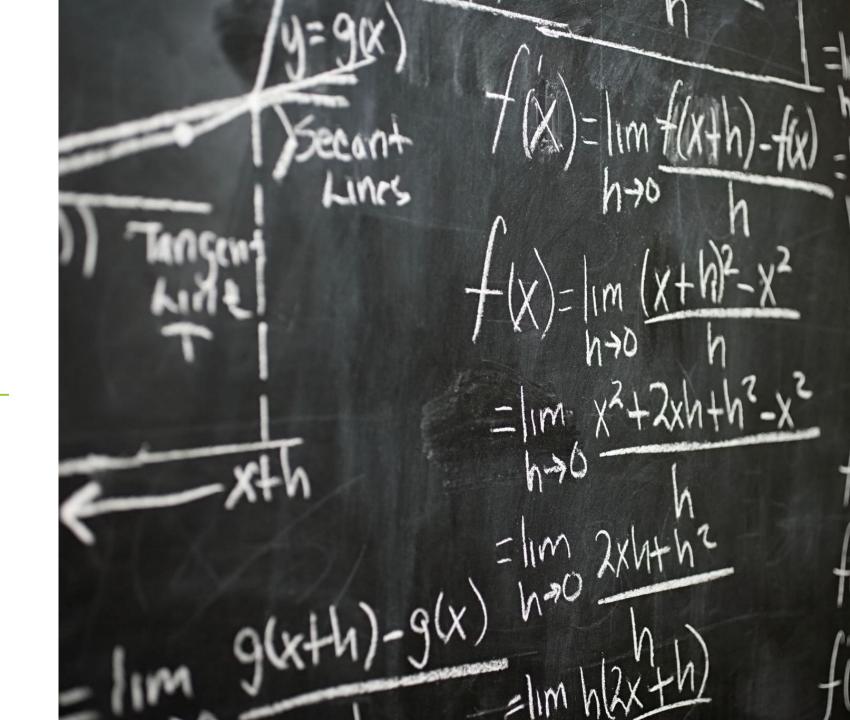
FUNCTIONS

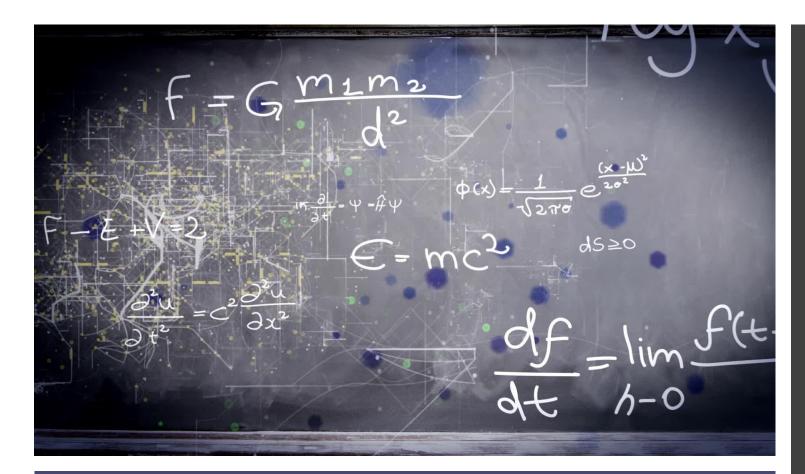
Prof. Andrew Sheehan

Boston University/MET Computer Science Dept.



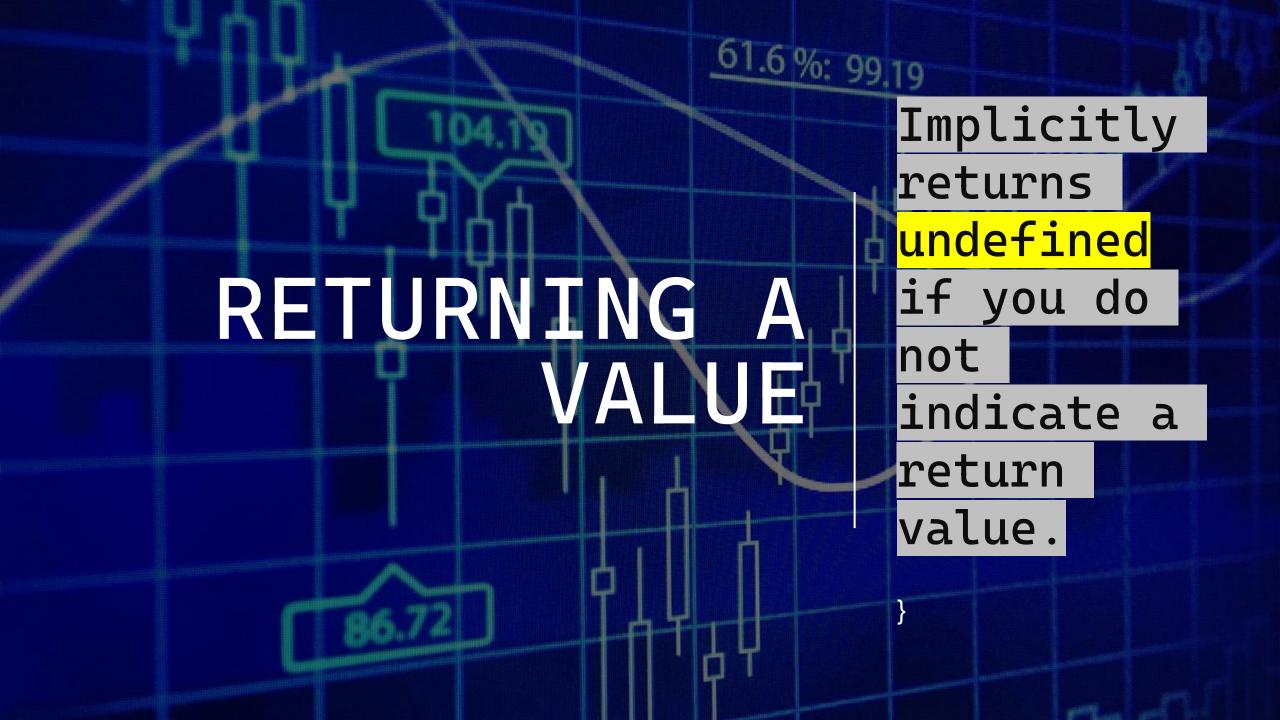
FUNCTIONS ARE OBJECTS

```
function validateScreenName(name) {
    /* This is the function body */
}
```



```
function eqOfLne(m, x, b) {
  return (m * x) + b;
}
```

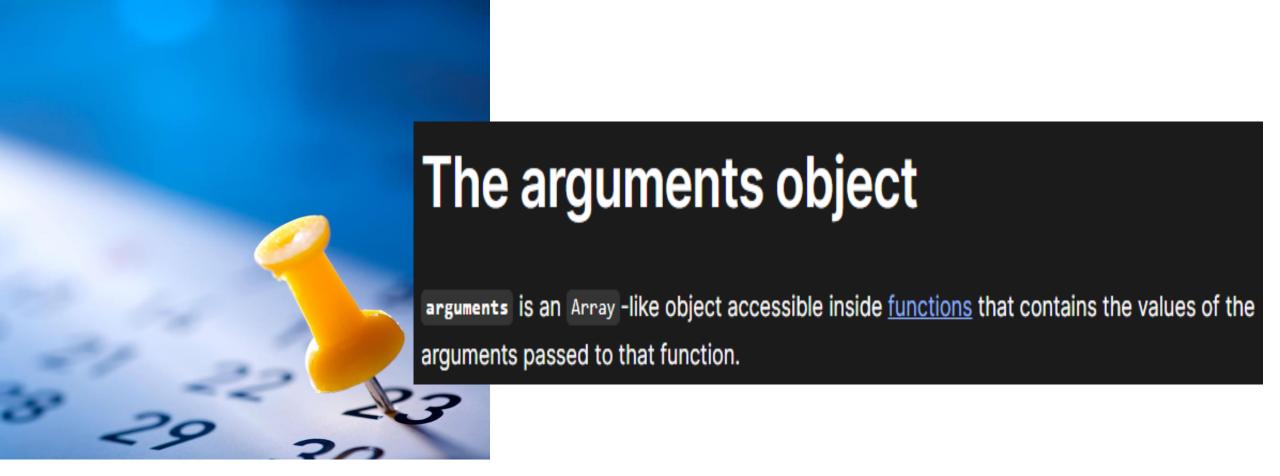
FUNCTION DECLARATIONS



NO SEMICOLON

```
function validateName(name) {
```

Semicolon at the end of a function declaration is not required.



PARAMETERS AND FUNCTION ARGUMENTS



```
const now = new Date();
healthCheck(message, now);
healthCheck(message);
function healthCheck(message) {
  const timestamp =
      arguments [1] || new Date();
```

PARAMETERS AND FUNCTION ARGUMENTS

```
function check(time) {
  let timestamp = time || new Date();
}
function health (message) {
  message = message || 'none';
}
```

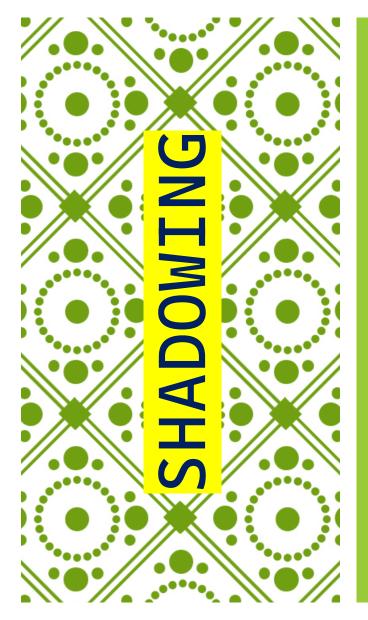
```
function ping(health, check) {
  heath("Pinging the server");
  check();
}
```

PASSING FUNCTIONS

NESTED FUNCTIONS

```
It is normal to declare a function within a function ('closure')
```

```
function greet(first, last) {
    function getFullName() {
        return first + " " + last;
    }
    alert("Hello, " + getFullName());
    alert("Bye, " + getFullName());
}
```



```
flag = `On`; // Global

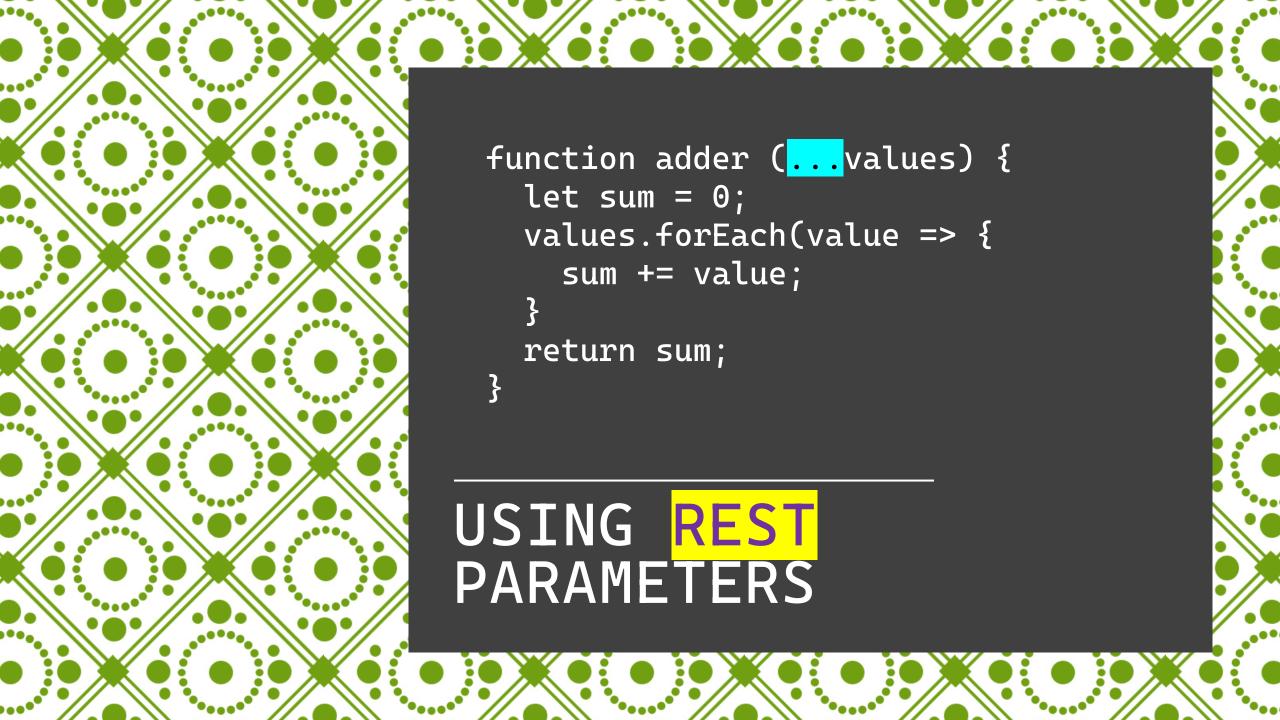
function isLucky() {
  var flag = `Off`; // Shadowed
  return flag === `On`;
}
```

```
entries({ start: 0, end: -1; step:0 });
function entries(Options) {
   options = options | {};
   const start = options.start | 0;
   const step = options.step | 1;
```

カい

```
function sayHello(user = "Guest") {
   return `<div>${user}</div>`;
}
```

DEFAULT PARAMETERS



CALL STACK

Most recent function invocation will be on the top of the stack.

