Functions & parameters

- What?
 - · How?
 - · Why?

& Subroutine, procedure, routine, method or subprogram.

- ⊗ Subroutine, procedure, routine, method or subprogram.

Туре	Result
Undefined	"undefined"
Null	"object" (see below)
Boolean	"boolean"
Number	"number"
String	"string"
Symbol (new in ECMAScript 2015)	"symbol"
Host object (provided by the JS environment)	Implementation-dependent
Function object (implements [[Call]] in ECMA-262 terms)	"function"
Any other object	"object"

- & Subroutine, procedure, routine, method or subprogram.

```
function myFunction(a, b) {
    return arguments.length;
}
```

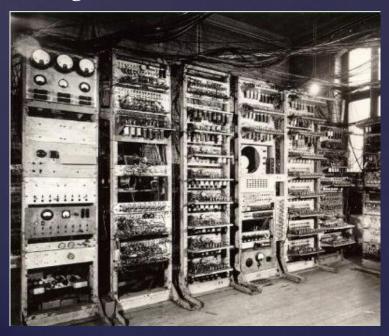
Length propertie

```
function myFunction(a, b) {
    return a * b;
}

var txt = myFunction.toString();
```

ToString method

- & Subroutine, procedure, routine, method or subprogram.
- "The earliest computers and microprocessors, such as the *Small-Scale Experimental Machine* and the *RCA 1802*, did **not** have a single subroutine call instruction."





1960s

Names listed in the function definition
The real values passed to the function

```
functionName(parameter1, parameter2, parameter3) {
   code to be executed
}
```

- Names listed in the function definition
 The real values passed to the function
- & Whatever you want and as much as you want

```
Syntax
Function Name

Keyword

Function name(parameter1, parameter2, parameter3) {

code to be executed
}

Code delimiter
```

Function names can contain letters, digits, underscores, and dollar signs

```
var x = function (a, b) {return a * b};
var myFunction = new Function("a", "b", "return a * b");
```

- & Syntax
- & Invoke
 - g When an event occurs
 - \varphi When it is called from code
 - ø Automatically (self invoked) recursive

- & Invoke

```
ø When an event occurs
                function factorial(num)
ន When i
                    // If the number is less than 0, reject it.
ន Automa
                    if (num < 0) {
                       return -1;
                    // If the number is 0, its factorial is 1.
                    else if (num == 0) {
                        return 1;
                    // Otherwise, call this recursive procedure again.
                    else {
                        return (num * factorial(num - 1));
                var result = factorial(8);
                document.write(result);
                // Output: 40320
```

- & Syntax
- & Invoke
 - g When an event occurs
 - ø When it is called from code
 - ø Automatically (self invoked) recursive

Invoked

Definition

FunctionName() =/= FunctionName

- & Syntax
- & Invoke
- & Hoisting

- ∀ou're lazy!

```
Function merci(){
return « Thank you for your attention »;
}
```

console.log(merci());