FUNCTION DECLARATION

```
syntax
example

function name(parameters) {
    // do something
}

example

function speak(name) {
    console.log("Hello, " + name);
}
```

FUNCTION EXPRESSION

```
syntax

let name = function(parameters) {
    // do something
};

example

let speak = function(name) {
    console.log("Hello, " + name);
};
}
```

ARROW FUNCTION

```
syntax

let name = (parameters) => {
    // do something
}

example

let speak = (name) => {
    console.log("Hello, " + name);
}
```

CALLING A FUNCTION

VAR, LET, & CONST

keyword	local scope	mutable	browsers
var	function only	yes	all
let	any block	yes	modern
const	any block	no	modern

FUNCTIONS & HOISTING

type	name hoisted	content hoisted
declaration	yes	yes
let expression	no	no
var expression	yes	no

GLOBAL, LOCAL, & BLOCK SCOPE

```
a variable declared outside of a function is in the global scope
let temp = 75;
                                                       a variable
function predict() {
                                                       declared within a
  let forecast = 'Sun'; ←
                                                       function is in the
                                                       local scope of that
  console.log(temp + ' and ' + forecast);
                                                       function
  // 75 and Sun
                                                       a variable
                                                       declared with let
if (temp > 70) {
                                                       and within a block,
  let forecast = 'It's gonna be warm!';
                                                       such as an if
                                                       statement, is in
  console.log(temp + '! ' + forecast);
                                                       the block scope of
  // 75! It's gonna be warm!
                                                       that statement
```