

A Different Way of Defining Functions

Function Declaration / Function Statement

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

Hoisted to top, can be declared anywhere in the file (i.e. also after it's used)

Function Expression

```
const multiply = function(a, b) {
  return a * b;
}
```

Hoisted to top but **not initialized**/ defined, **can't** be declared anywhere in the file (i.e. not after it's used)

Arrow Functions

General Syntax: (arg1, arg2) => { ... }

No Arguments / Parameters

Empty pair of parentheses is required

Exactly one (1) Argument /
Parameter

Parentheses can be omitted

Exactly one expression in function body

$$(a, b) => a + b$$

Curly braces can be omitted, result is returned

More than one expression in function body

Curly braces and return statement required