



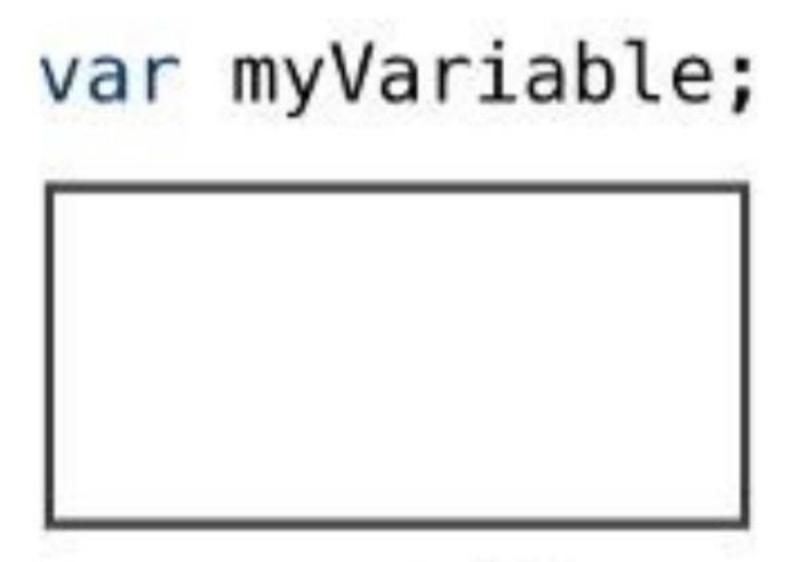


markup language content

style sheet language presentation

programming language behavior

var year, month, day;



my Variable

integer? floating point number? text string? boolean value? array? date? object?

```
if (condition) {
 // code goes here
```

```
parentheses )
 brackets
  braces
```

```
if (condition) {
 // code goes here
```

```
if ( a < 50 ) {
 // code goes here
```

```
if (b > 20) {
 // code goes here
```

```
if (c == 99)
 // code goes here
```

```
if (c === 99)
 // code goes here
```

```
if ( d != 100 ) {
 // code goes here
```

```
<!DOCTYPE html>
<html lang="en">
   <head>
     <title>Hello</title>
   </head>
   <body>
     <div>
        regular body text
    </div>
     <script>
        alert("hello");
     </script>
</body>
```

```
if ( amount < 1000 )
    alert("It's less than 1000");
```

var amount = 500;

```
if (     ) {
    // code goes here

// ...
}else {
    // otherwise, different code
```

```
// code goes here
} else {
    // otherwise, different code
       // nested if
```

score += 10; += -= *= /=

result = 5 + 5 * 10;

55 5 50

result = (5 + 5) * 10;

100 * 10

```
if (a == b) {
   // execute this code
```

```
var = 5;
var b = 10;
if(a = b)
  // always true!
```

```
assignment
equality
strict equality
```

```
var a = 5;
var b = "5";
if (a == b) {
   alert("Yes, they're equal");
   else {
    alert("They are NOT equal");
```

```
function myOtherFunction() {
   // lots of code
function myFunction() {
   // lots of code
    myOtherFunction();
myFunction();
```

```
var a = 5;
var b = "5";
if (a === b) {
   alert("Yes, they're equal");
   else {
    alert("They are NOT equal");
```

```
var foo = 10;
var bar = 20;
if ( foo < bar ) {
   alert("foo is less than bar");
   alert("and here's a second message");
   alert("and here's a third message");
```

JavaScript is

ENSITIVE

```
var foo = 10;
var bar = 20;
if ( foo < bar ) {
    console.warn("foo is less than bar");
  // console.log(foo);
 // console.log(foo,bar);
```

```
var foo = 10;
var bar = 20;
if ( foo < bar ) {
    console.error("foo is less than bar");
  // console.log(foo);
  // console.log(foo,bar);
```

statement one statement two

statement one statement two

statement one statement two

```
repeat 5 times {
   statement one
   statement two
```

```
repeat 5000 times {
   statement one
    statement two
```

```
var a = 1;
if ( a < 10 ) {
    console.log(a);
```

```
var a = 1;
while ( a < 10 ) {
    console.log(a);
```

```
parameters
function myFunction (x,y) {
   var myVar = x * y;
   console.log(myVar);
```

```
var a = 1;
```

```
while ( a < 10 ) {
    console.log(a);
    a++;
```

```
var a = 1;
do {
    console.log(a);
    a++;
} while ( a < 10);
```

```
var a = 100;
do {
    console.log(a);
   a++;
} while ( a < 10);
```

```
var a = 100;
do {
    console.log(a);
   a++;
} while ( a < 10);
```

```
var i = 1;
while ( i < 10 ) {
    // do stuff
    // do stuff
    // do stuff
    // etc..
```

setup index check condition

```
for ( var i = 1 ; i < 10 ; i++) {
    // do stutt
    // do stuff
   // do stuff
   // etc..
```

```
for ( var i = 1; i < 5000; i++) {
  // do stuff
  // do stuff
  if(i == 101)
     break;
  // do stuff
```

// break jumps out of the loop

```
for ( var i = 1 ; i < 5000 ; i++ ) {
  // do stuff
  // do stuff
  if (i % 5 == 0) {
     continue;
  // do second set of stuff
     do second set of stuff
```

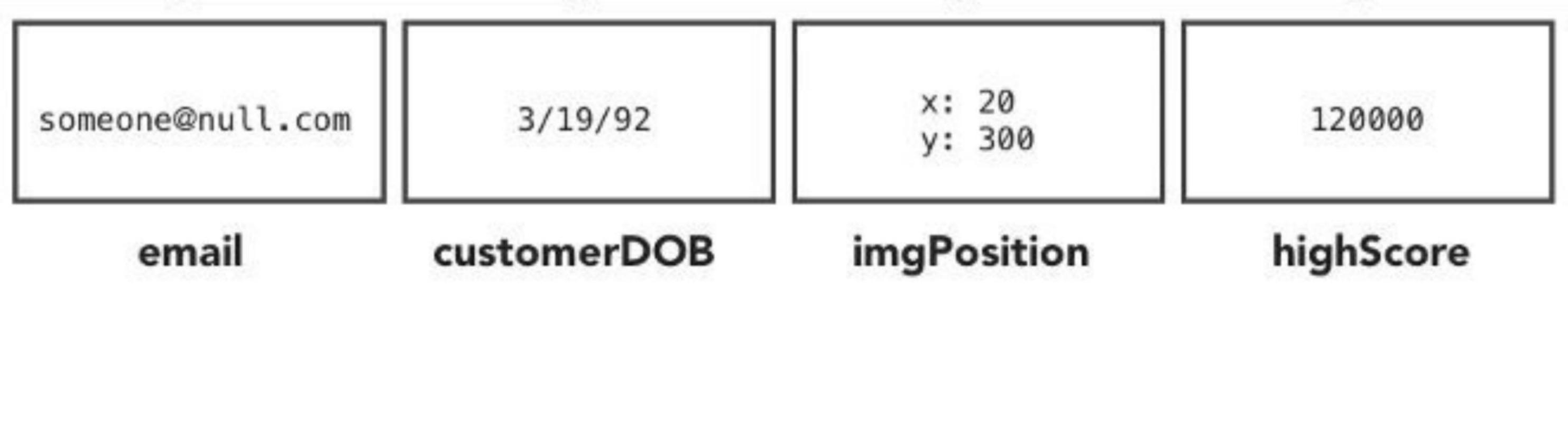
```
myFunction();
```

```
function myFunction() {
   // lots of code
    myOtherFunction();
function myOtherFunction() {
   // lots of code
```

```
parameters
function myFunction (x,y) {
   var myVar = x * y;
   console.log(myVar);
   // we can return values
   return myVar;
```

```
function simpleFunction() {
   // lots of code
   var foo = 500; local variable
   // lots of code
   console.log(foo); 500
```

```
var foo; global variable
function simpleFunction() {
    // lots of code
    foo = 500;
    // lots of code
    console.log(foo);
simpleFunction();
console.log(foo);
```



```
var year;
var customerEmail;
var todaysDate;
var foo;
var x;
var 99problems; X
var problems99;
```

letters

\$

```
var year;
var month;
var day;
```