

2 places to write JS

```
<script>
  // Code goes here
</script>

<script src="main.js"></script>
```

(A) In the <script> element

(B) In a dedicated file (main.js) & refer that file via the <script> element

Data Types

// Data Types

```
var age = 18; // number
var name = "Jane"; // string
var name = { first: "Jane", last: "Doe" }; // object
var truth = false; // boolean
var webSite = [ "HTML", "CSS", "JavaScript" ]; // array
var variableName; // undefined
var empty = null; // null
```

Loops

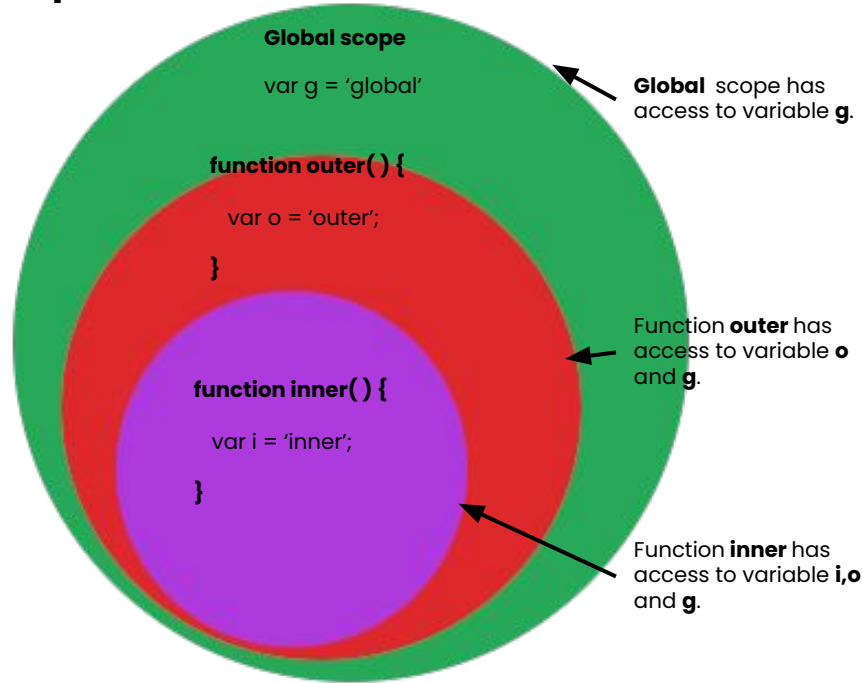
```
// Loops

// while
var counter = 1; // initialize
while ( counter < 100 ) {
  // enters the cycle if statement is true
  console.log( counter ); // output
  counter += 1; // increment to avoid infinite loop
}

// for
for ( var counter = 1; counter < 100; counter += 1 ) {
  console.log( counter )
}
```

JavaScript Cheatsheet

Scope



Function(s)

```
// Functions
```

```
function square( x ) {  
  return x * x;  
}
```

Function Declaration

```
const square = function( x ) {  
  return x * x;  
}
```

Function Expression

```
const square = ( x ) => {  
  return x * x;  
}
```

Arrow Function