Intro to Javascript

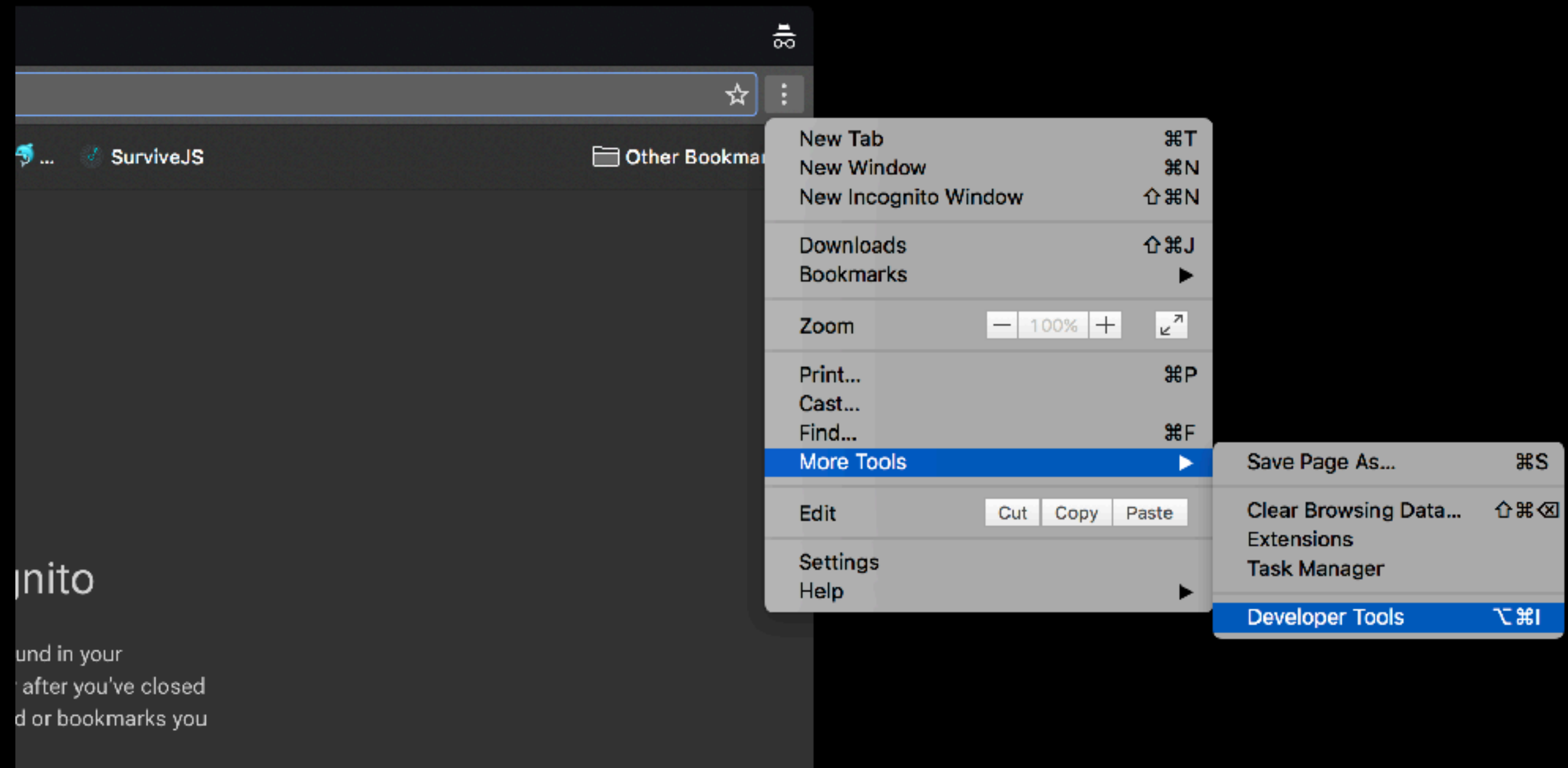# Short Version

- created in 10 days by Brendan Eich in 1995

- Called "java script" to grab the fame of Java
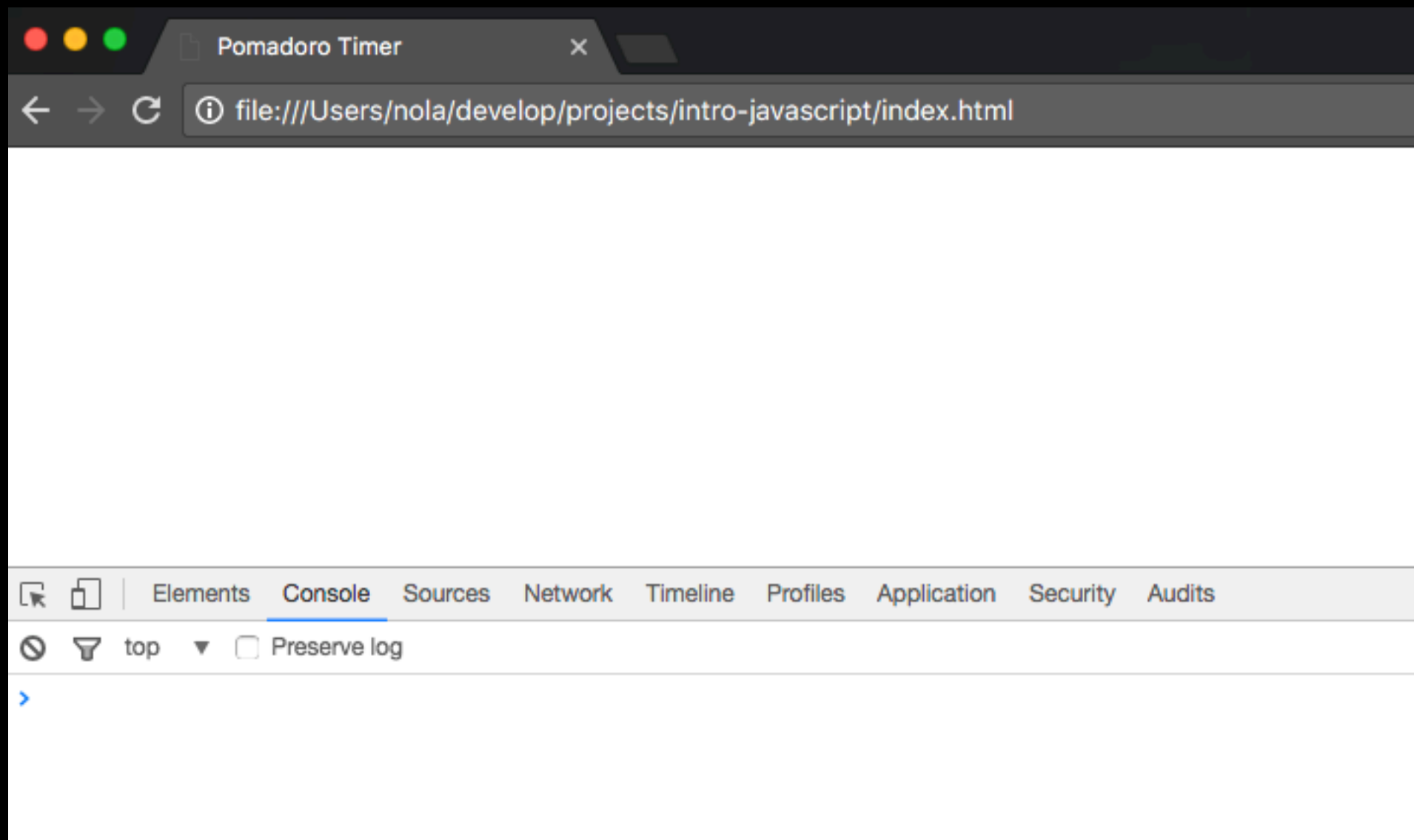
Let's Try it

Open Chrome and go to

Syntax

- optionally end lines with a semi colon

- { } around body of statements

Start Chrome Dev Tools

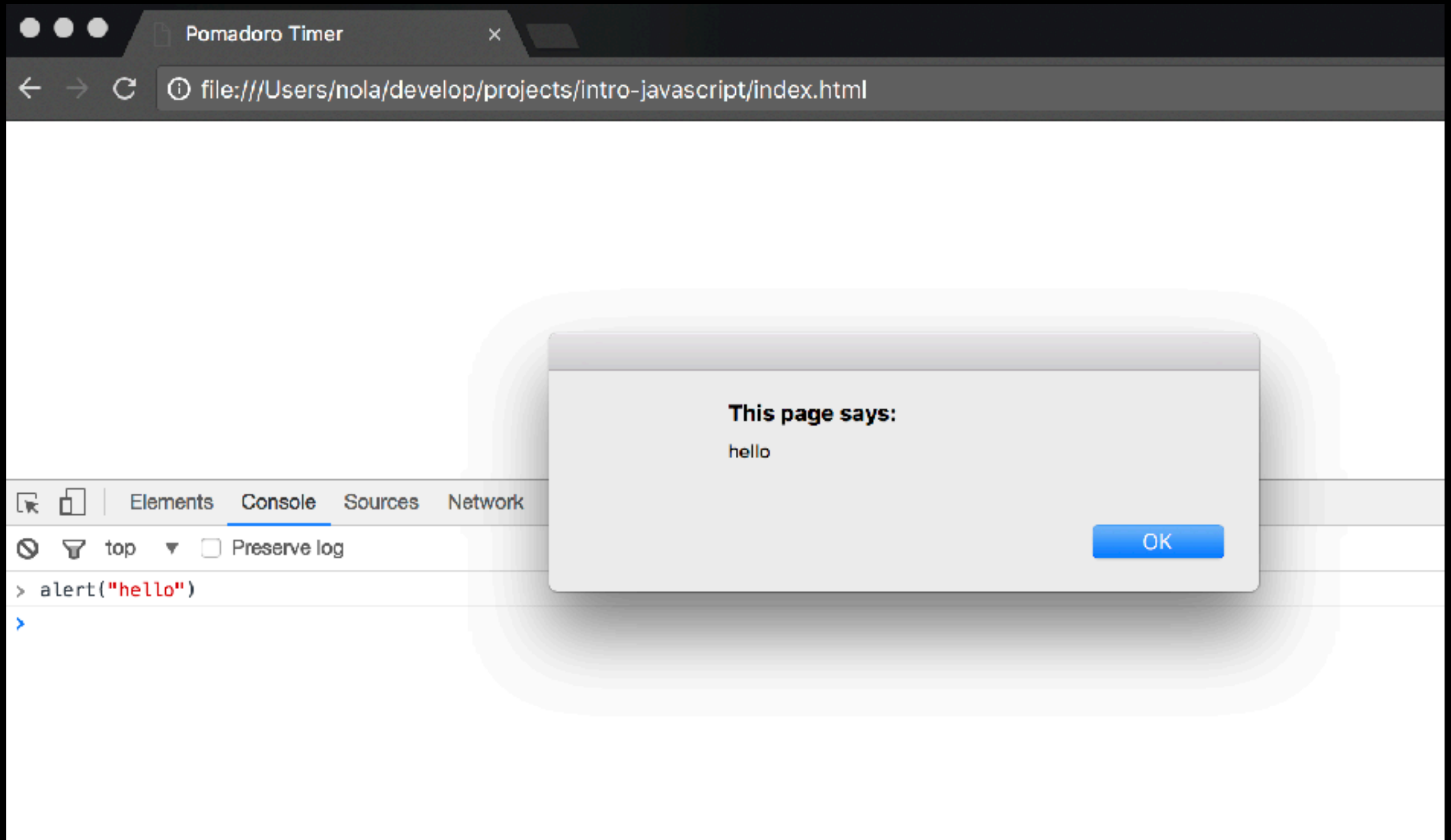# Values in Javascript

- numbers and strings

Variables

- Define a variable with var

```
> var lunch = "taco"
<· undefined
> lunch
<· "taco"
```

Using Functions

Forgetting the ( )

```
> alert("hello")
<· undefined
> alert
<· function alert() { [native code] }
```

Writing Functions

```
> var mylog = function (msg) { return console.log("LOG: " + msg) }
<· undefined
> mylog("crossroads taco")
  LOG: crossroads taco
<· undefined
> mylog("trailer park taco")
  LOG: trailer park taco
<· undefined
```

Summary

- covered values such as integers and strings

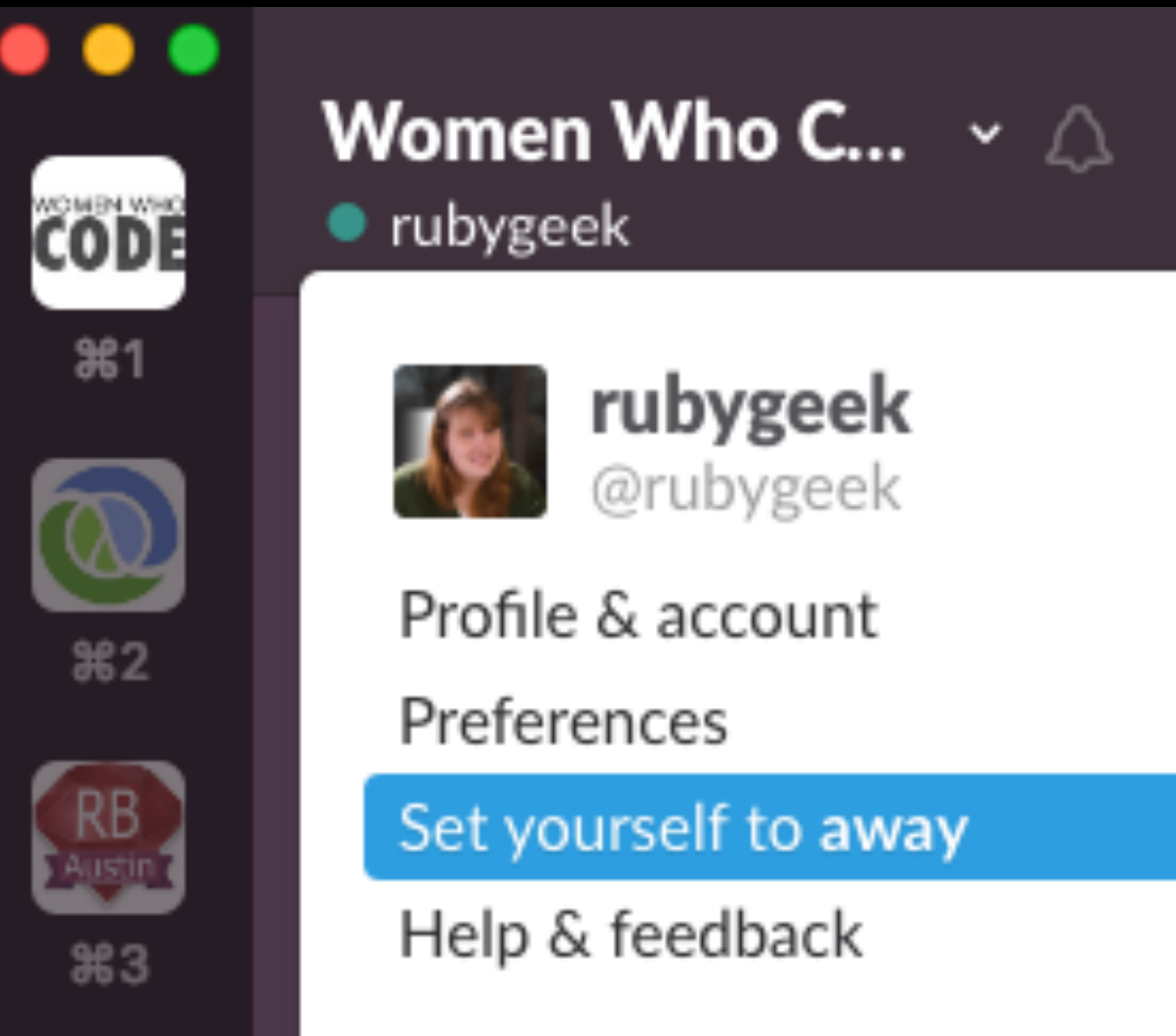- creating a function

- syntax { } ;

questions?

Project

Pomadoros

- A way to focus and get things done

- 25 minutes of focus on one task

- 5 mins break

Close distractions!

Close

- twitter
- email
- facebook

index.html

```
 1 | <html>
 2 |   <head>
 3 |     <title>Pomadoro Timer</title>
 4 |   </head>
 5 |
 6 |   <body>
 7 |
 8 |
 9 |     <script src="./pomadoro.js"></script>
10 |
11 |   </body>
12 | </html>
```

https://github.com/rubygeek/intro-javascript

Add buttons

```
 6 |    <body>
 7 |
 8 |      <button type="button">Pomadoro</button>
 9 |      <button type="button">Break</button>
10 |
11 |      <script src="./pomadoro.js"></script>
12 |
13 |    </body>
```
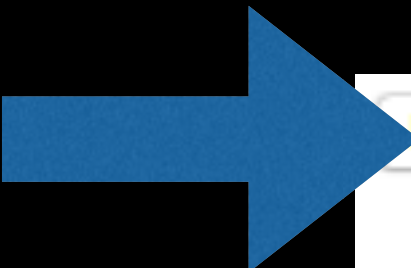
Buttons

file:///Users/nola/develop/projects/intro-javascript/index.ht

| Pomadoro | Break |

Add onclick

```
 type="button" onclick="pomadoro()">Pomadoro</button>
 type="button" onclick="breaktime()">Break</button>
```

pomodoro.js

```javascript
1 | var pomadoro = function() {
2 |   console.log("Doing a pomadoro");
3 | }
4 |
5 | var breaktime = function() {
6 |   console.log("Enjoy your break!");
7 | }
```

Try it out

Pomadoro | Break

Elements | **Console** | Sources | Network | Timeline | Profiles | Application

top ▼ ☐ Preserve log

Doing a pomadoro
Enjoy your break!
Doing a pomadoro
Enjoy your break!
Doing a pomadoro
Enjoy your break!

Timers in JS

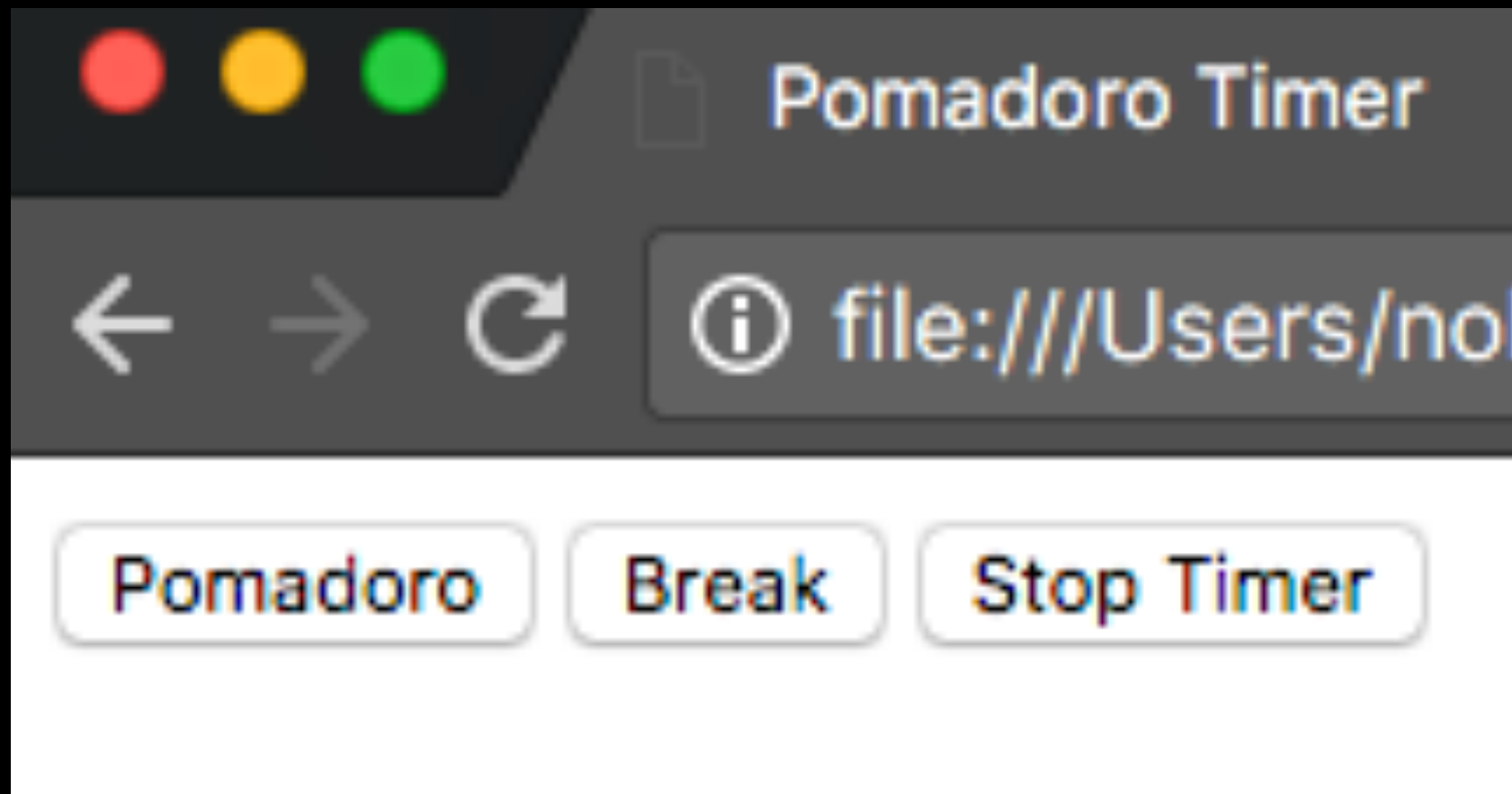- setTimeout

- clearTimeout

- setInterval

- clearInterval

Using setTimeout

```
2  var timer = null;
3
4  var startTimer = function(minutes) {
5    timer = setTimeout(endTimer, minutes * 60* 1000);
6  }
7
8  var endTimer = function() {
9    console.log("Ring the bell and stop timer");
10  }
11
12  var pomadoro = function() {
13    console.log("Doing a pomadoro");
14    startTimer(1);
15  }
16
```

Stop Timer

Stop Timer

```html
<button type="button" onclick="pomadoro()">Pomadoro</button>
<button type="button" onclick="breaktime()">Break</button>
<button type="button" onclick="stop()">Stop Timer</button>
```
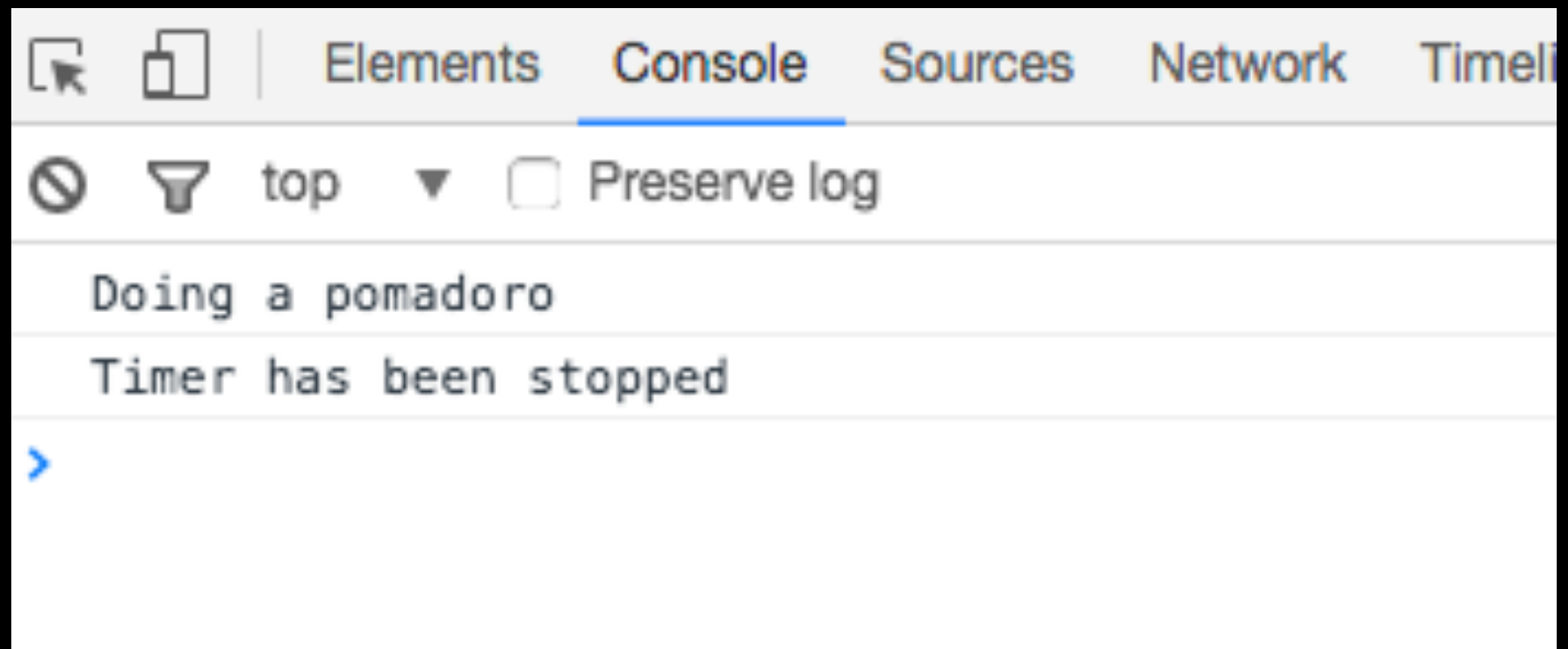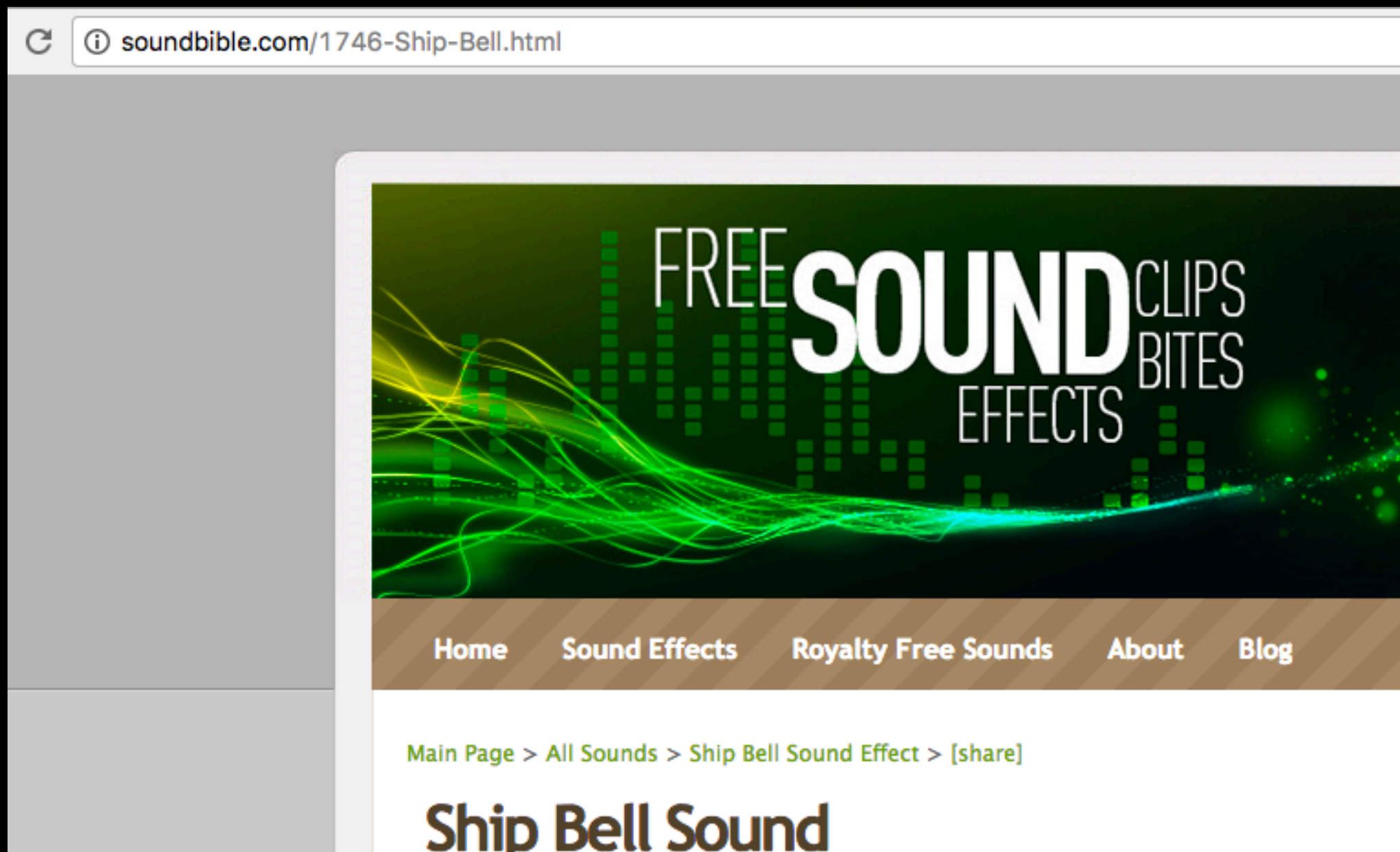
Code for Stop

```
21 | var stop = function() {
22 |   clearTimeout(timer);
23 |   console.log("Timer has been stopped");
24 | }
```

		Elements	Console	Sources	Network	Timeli

⊘ ▽ top ▼ ☐ Preserve log

Doing a pomadoro

Timer has been stopped

>

Add sound

Download a sound mp3

Add Sound

Download a mp3 bell sound

Place in the same folder as your code

```
2   var bell = new Audio("./ship-bell.mp3");
```

```
10   var endTimer = function() {
11     console.log("Ring the bell and stop timer");
12     bell.play();
13   }
```

Final

ideas to improve?

- show how many pomadoros completed

- show status (in pomadoro or break)

Don't forget to set the correct times!

```javascript
15 | var pomadoro = function() {
16 |   console.log("Doing a pomadoro");
17 |   startTimer(25);
18 | }
19 |
20 | var breaktime = function() {
21 |   console.log("Enjoy your break!");
22 |   startTimer(5);
23 | }
```
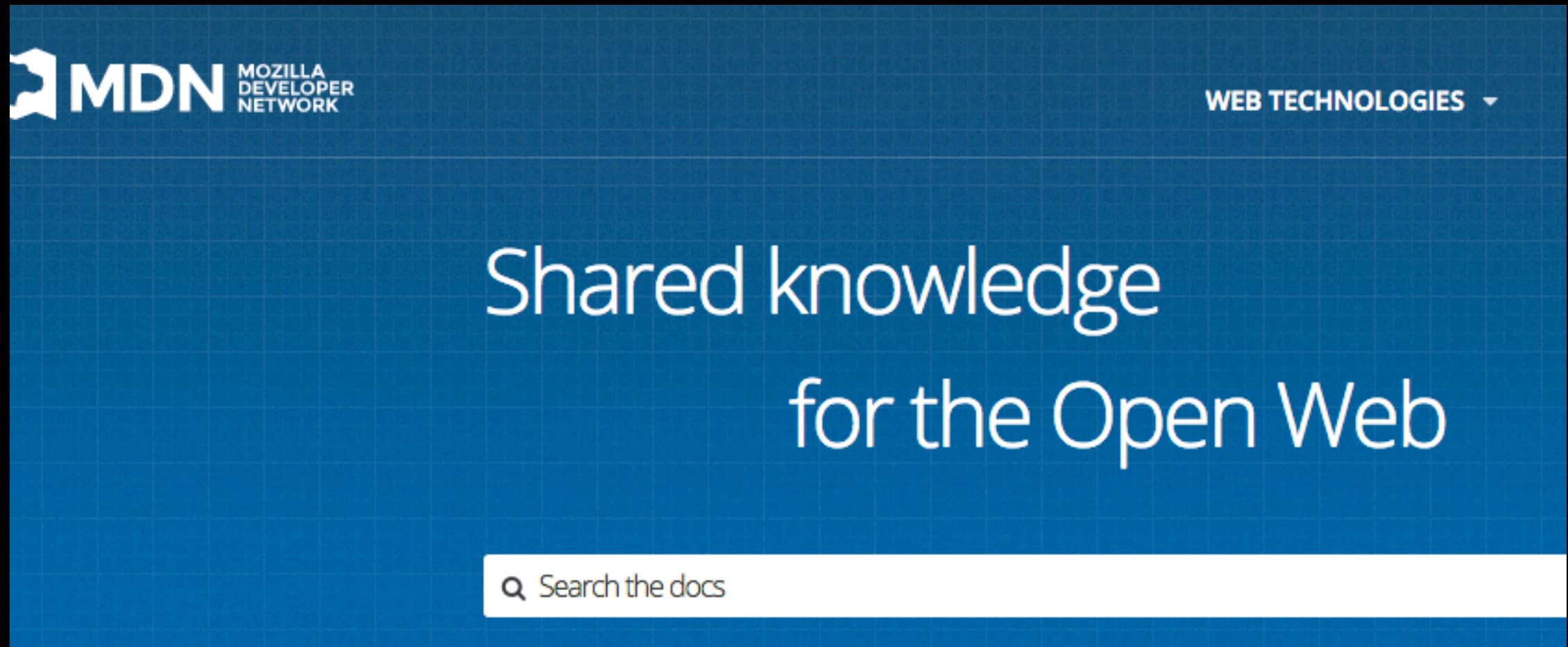
Resources

ELOQUENT JAVASCRIPT

SECOND EDITION

This is a book about JavaScript, programming, and the wonders of the digital.
You can read it online here, or get your own paperback copy of the book.

ELOQUENT JAVASCRIPT

SECOND EDITION

A Modern Introduction
to Programming

Marijn Haverbeke

http://eloquentjavascript.net/

Mozilla Developer Network

https://developer.mozilla.org

Thanks!!