

Frontend Avanzado

Kevin Martínez Javascript Developer

(@kjmesec)

kevinjmartinez/



Requisitos previos

Conocimientos medios de Javascript

Tener git Instalado y conocimientos básicos. <https://git-scm.com/downloads>



Repositorios

<https://github.com/kevinccbsg/web-bootcamp-2019-frontend>

<https://gitlab.keepcoding.io/keepcoding-bootcamps/full-stack-web-bootcamp-iv/desarrollo-frontend-con-javascript>

Link de la aplicación

<https://tvmaze-keepcoding-2019.herokuapp.com/>

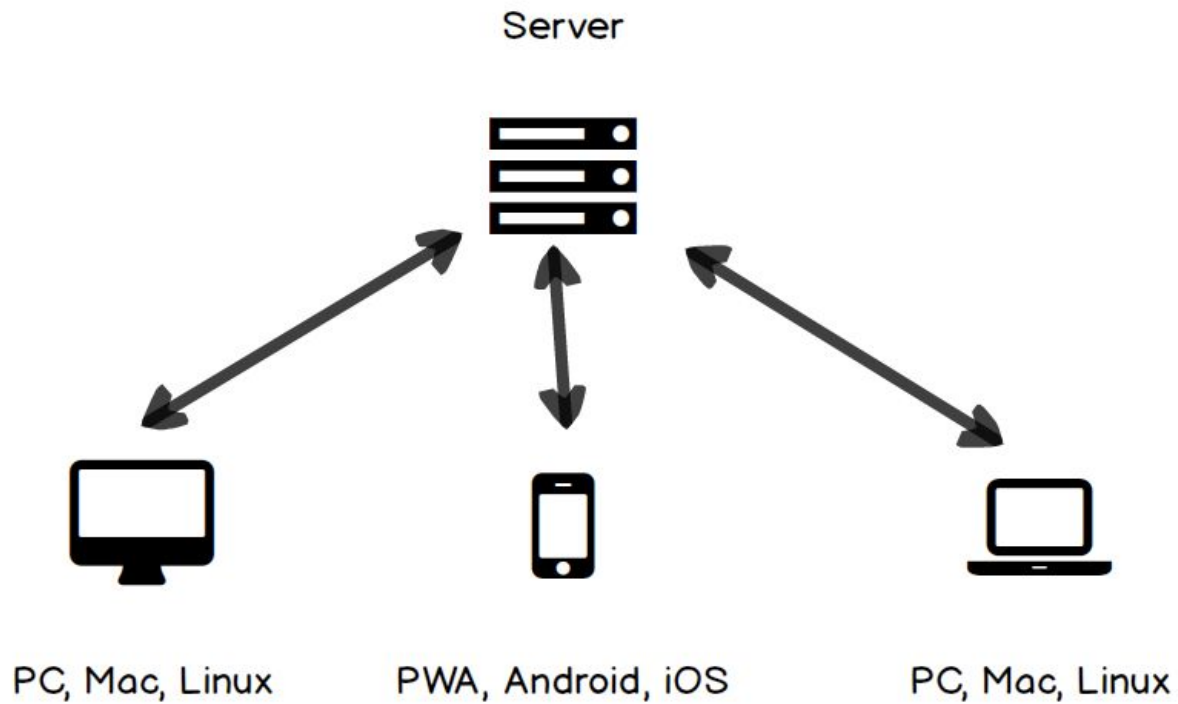


Client-server model



Client–server model is a distributed application structure that partitions tasks or workloads between the providers of a resource or service, called servers, and service requesters, called clients.



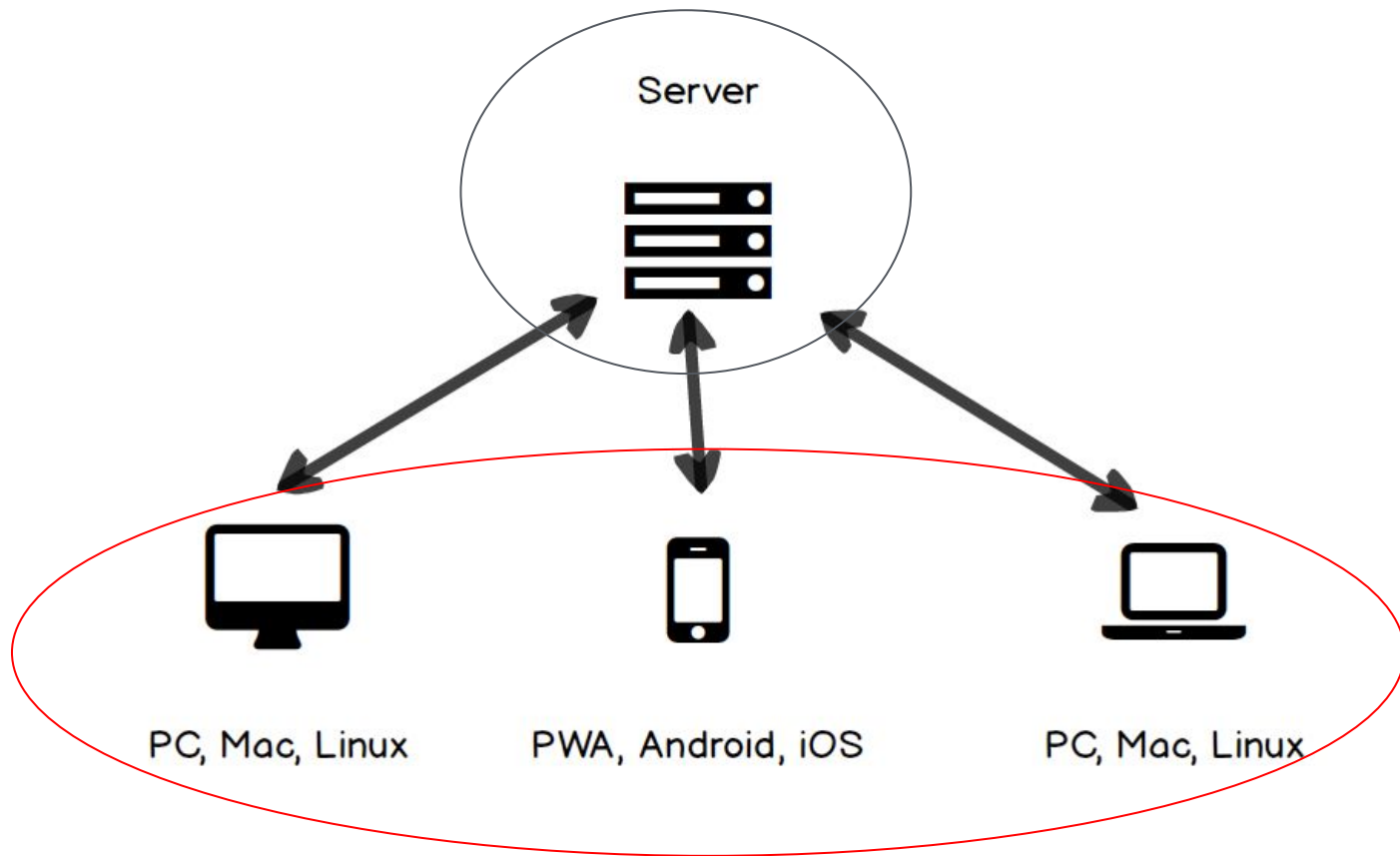


Frontend Development



Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly.







Javascript



High-level, interpreted scripting language that conforms to the ECMAScript specification. JavaScript has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions.

<https://github.com/tc39/ecma262>

<https://babeljs.io/>



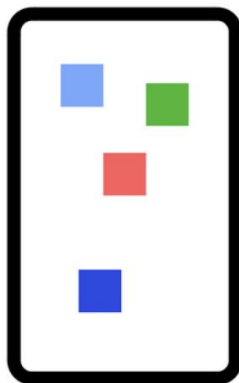
¿Como funciona Javascript?

<https://blog.sessionstack.com/how-does-javascript-actually-work-part-1-b0bacc073cf>



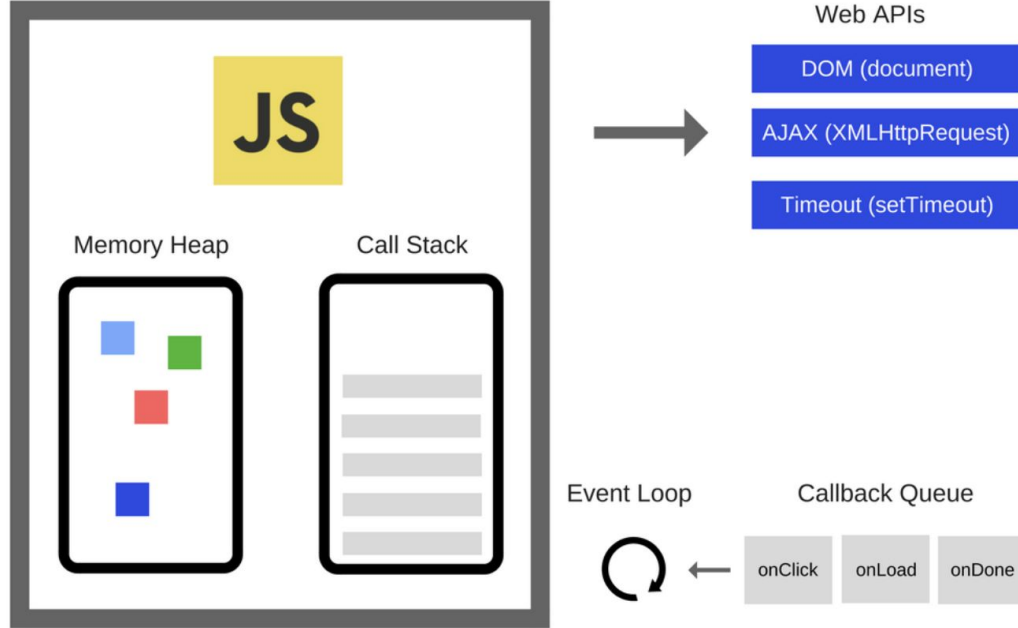


Memory Heap



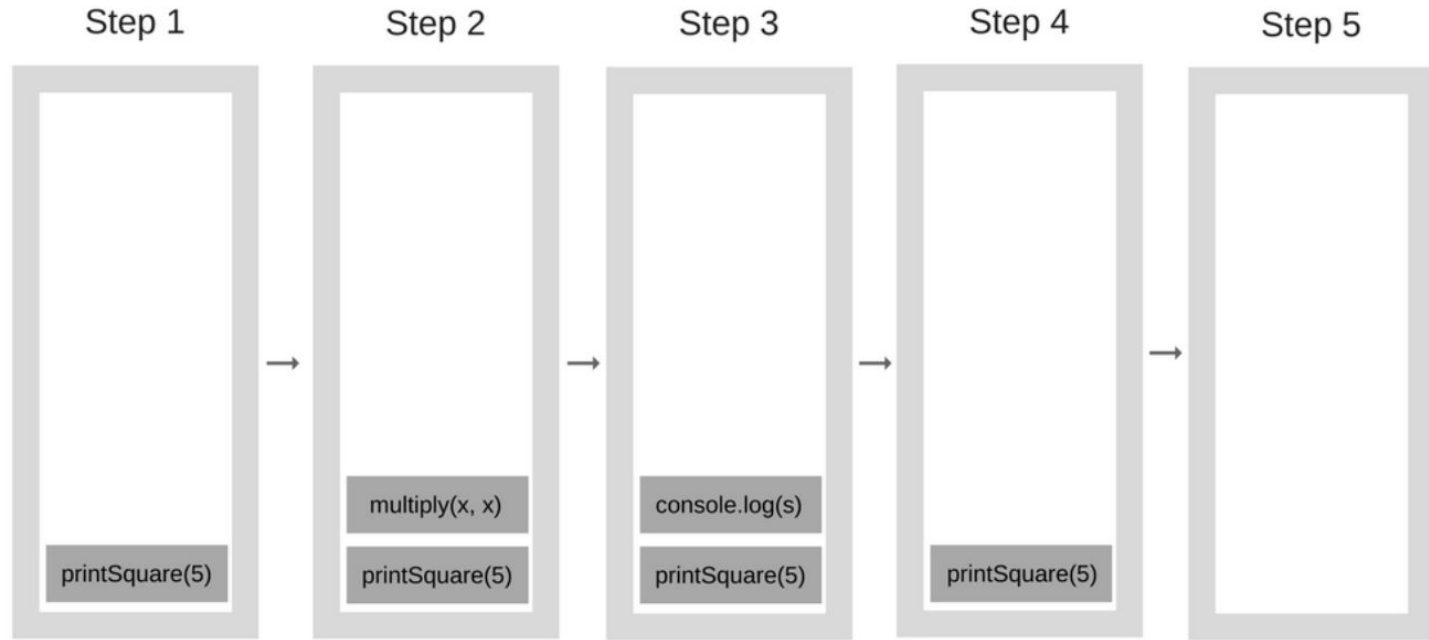
Call Stack



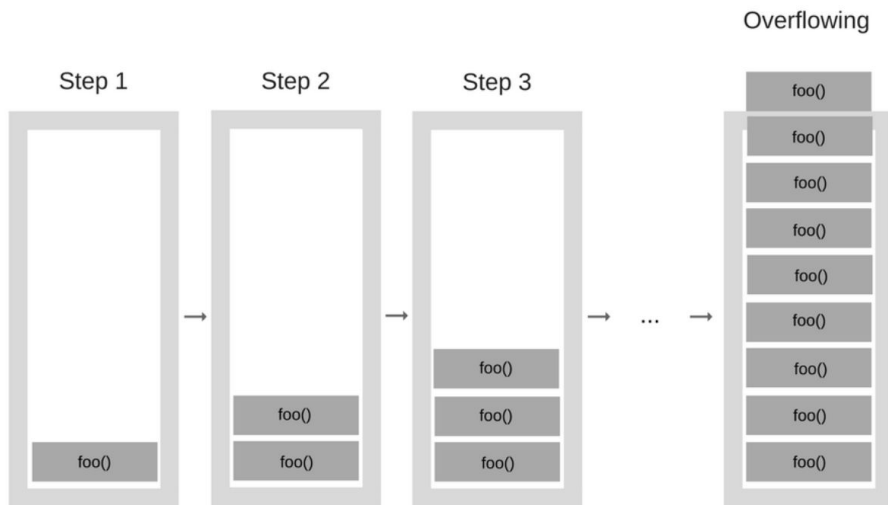


```
function multiply(x, y) {  
    return x * y;  
}  
  
function printSquare(x) {  
    var s = multiply(x, x);  
    console.log(s);  
}  
  
printSquare(5);
```





```
function foo() {  
    foo();  
}  
  
foo();
```



✖ ▶ Uncaught RangeError: Maximum call stack size exceeded



Conceptos principales

Memory Heap

Donde la memoria se aloja

Call Stack

Donde se apila la ejecución de nuestro código.

Web APIS

No vienen dadas por el motor sino que las da el DOM.

Event Loop

Monitoriza el call stack y el callback queue. Si el primero está vacío toma el primer evento del callback queue y lo manda al call stack

Callback Queue

Donde se almacenan las ejecuciones de las Web APIs asíncronas



Creando proyecto



Conceptos del día día



Arrays, Object mutability, Destructuring, Arrow functions, Rest operator



Preguntas de entrevistas



Variables





Context



Arrow function Context



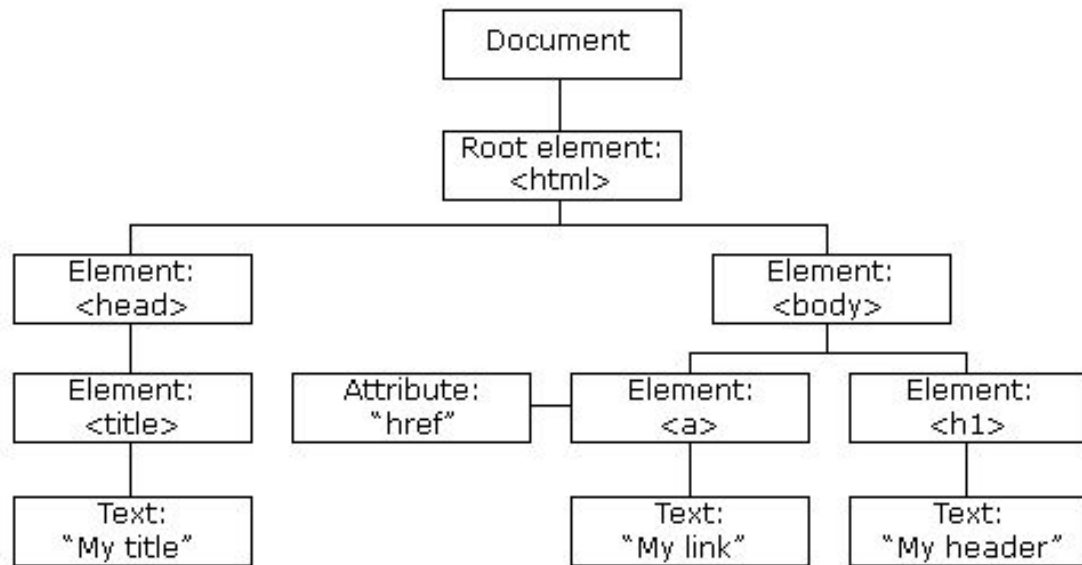
Que es el DOM

(Document Object Model)



The Document Object Model is a cross-platform and language-independent interface that treats an XML or HTML document as a tree structure wherein each node is an object representing a part of the document



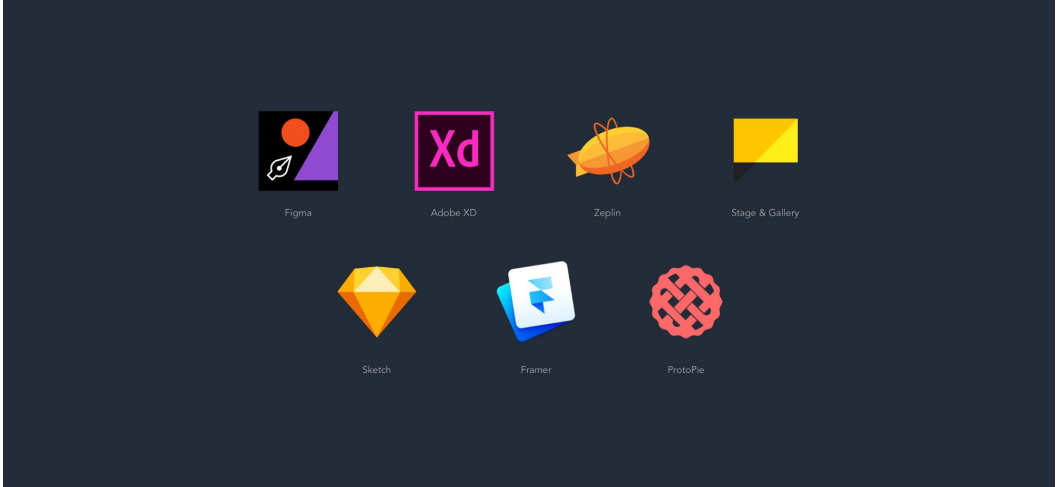


Primeros pasos de TVMaze



Developers vs Designers





Mobile First y Alcance!!!!



Consejos de CSS





Variables

Sprites

Animaciones

Selectores para navegadores



Links útiles

<https://caniuse.com/>

<http://pleeease.io/play/>

<https://cssgridgarden.com/>

<https://flexboxfroggy.com/>

<https://coolors.co/>

<https://colorhunt.co/>

<https://material.io/resources/color/#!/view.left=0&view.right=0>

<https://cantunsee.space/>

<https://www.cssdesignawards.com/>

<https://css-tricks.com/guide-svg-animations-smil/>

<https://css-tricks.com/using-svg/>

<https://modernizr.com/download>



Imágenes Responsive



Maquetando nuestra web



Por fin, Javascript para el Front



DOM con Javascript



document.<Selector>

getElementById

querySelector

getElementsByClassName

querySelectorAll

getElementsByTagName



Manejo de CSS con Javascript



Eventos en Javascript



Event bubbling



CB/Then/Async/Await



Request a una API



```
<!DOCTYPE html>
<html>
<body>
<h1>The XMLHttpRequest Object</h1>

<button type="button" onclick="loadDoc()">Request data</button>

<p id="demo"></p>

<script>
function loadDoc() {
  var xhttp = new XMLHttpRequest();
  xhttp.onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
      document.getElementById("demo").innerHTML = this.responseText;
    }
  };
  xhttp.open("POST", "demo_post2.asp", true);
  xhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");
  xhttp.send("fname=Henry&lname=Ford");
}
</script>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
    $("button").click(function(){
        $.ajax({url: "demo_test.txt", success: function(result){
            $("#div1").html(result);
        }});
    });
});
</script>
</head>
<body>

<div id="div1"><h2>Let jQuery AJAX Change This Text</h2></div>

<button>Get External Content</button>

</body>
</html>
```



Fetch

<https://caniuse.com/#feat=fetch>



¿Que es un polyfill?



Fetch

```
fetch('./api/some.json')
  .then(
    function(response) {
      if (response.status !== 200) {
        console.log('Looks like there was a problem. Status Code: ' +
          response.status);
        return;
      }

      // Examine the text in the response
      response.json().then(function(data) {
        console.log(data);
      });
    }
  )
  .catch(function(err) {
    console.log('Fetch Error :-S', err);
  });
```

Nativo

Promised based

Doble procesado

Multiples respuestas

Mejor que axios?



Axios

<https://github.com/axios/axios>



Intersection Observer



Un rato en nuestras Devtools



Configurando un Linter



Configurando tests



Despliegue con Github



Service workers



Kevin Martínez Javascript Developer

kevinccbsg@gmail.com

(@kjmesec)

(@KeepCoding_)

