Frontend Avanzado

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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/

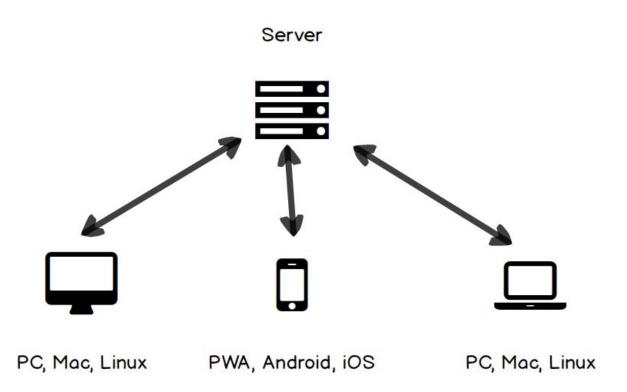


Client-server model



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.





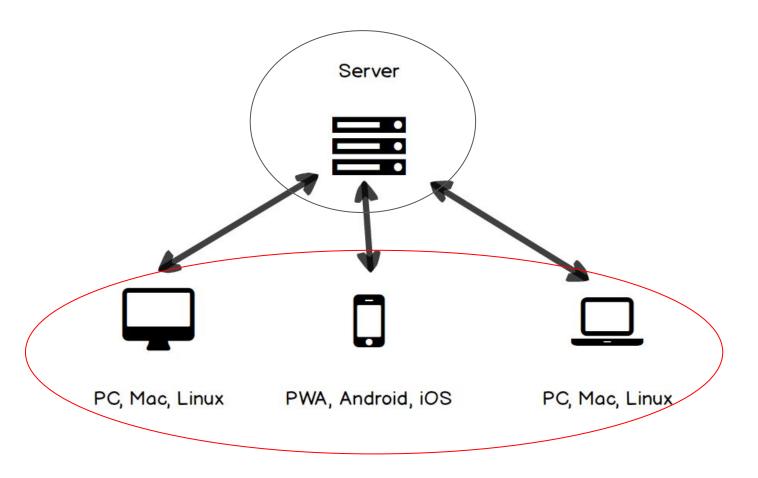


Frontend Development



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/

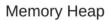


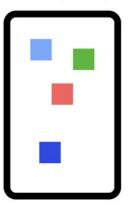
¿Como funciona Javascript?

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





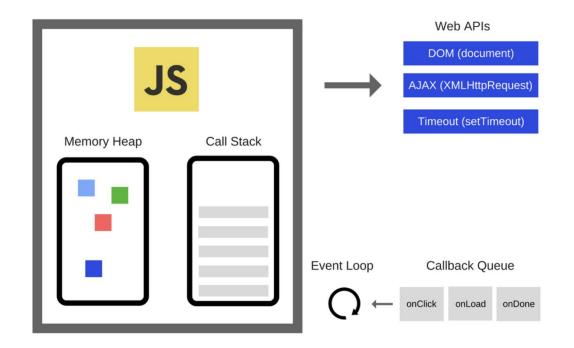




Call Stack



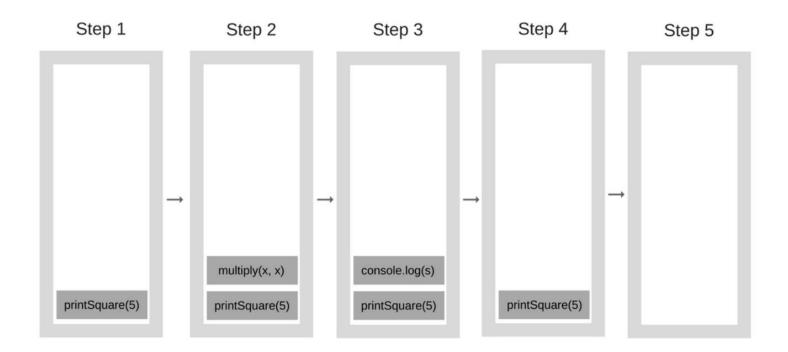






```
function multiply(x, y) {
    return x * y;
function printSquare(x) {
    var s = multiply(x, x);
    console.log(s);
printSquare(5);
```

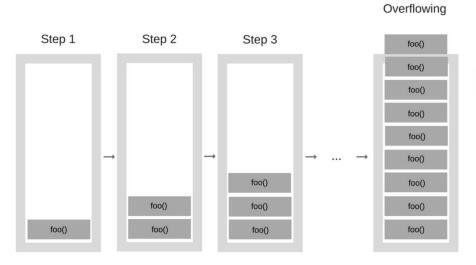






```
function foo() {
    foo();
}

foo();
```







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 vacio 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



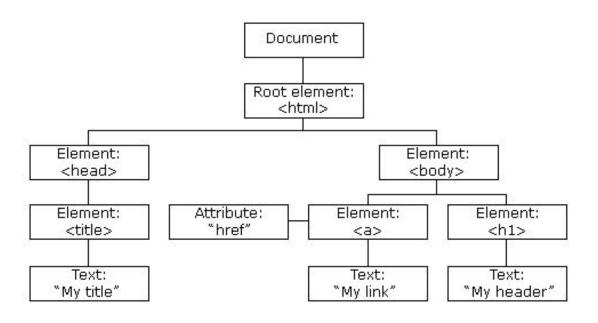
Que es el DOM

(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://www.cssdesignawards.com/

https://cssgridgarden.com/

https://flexboxfroggy.com/

https://coolors.co/

https://colorhunt.co/

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

https://css-tricks.com/quide-svg-animations-smil/

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

https://modernizr.com/download



Imágenes Responsive



Por fin, Javascript para el Front



DOM con Javascript



document.<Selector>

getElementByld

querySelector

getElementsByClassName

querySelectoAll

getElementsByTagName



Eventos en Javascript



Manejo de CSS con Javascript



Event bubbling



CB/Then/Async/Await



Maquetando nuestra web



Request a una API



```
<!DOCTYPE html>
<html>
<body>
<h1>The XMLHttpRequest Object</h1>
<button type="button" onclick="loadDoc()">Request data/button>
<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
</body>
</html>
```



Axios

https://github.com/axios/axios



Fetch

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



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?



¿Que es un polyfill?



Configurando un Linter



Intersection Observer



Un rato en nuestras Devtools



Despliegue con Heroku



Service workers



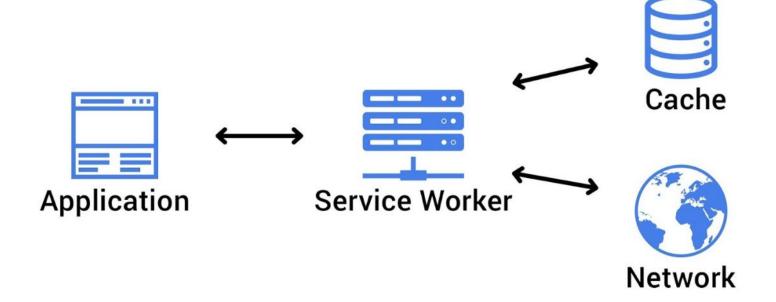
Service workers



A service worker is a script that your browser runs in the background, separate from a web page, opening the door to features that don't need a web page or user interaction.

Today, they already include features like push notifications and background sync.







```
if('serviceWorker' in navigator) {
   navigator.serviceWorker.register('/sw.js')
   .then(() => {
      console.log("Service Worker Registered");
   })
}
```



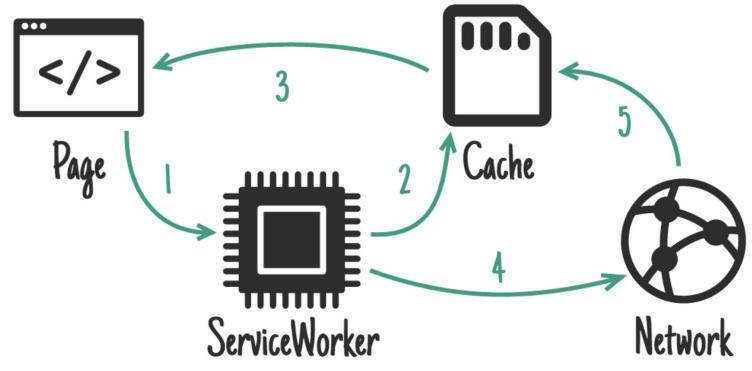
Workbox



Workbox is a library that bakes in a set of best practices and removes the boilerplate every developer writes when working with service workers.

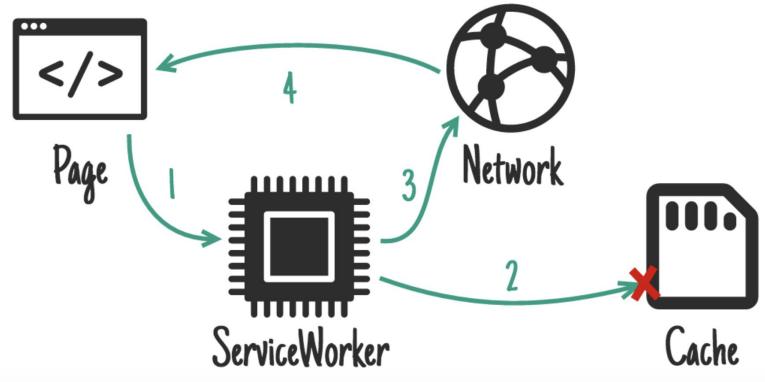


Stale-While-Revalidate



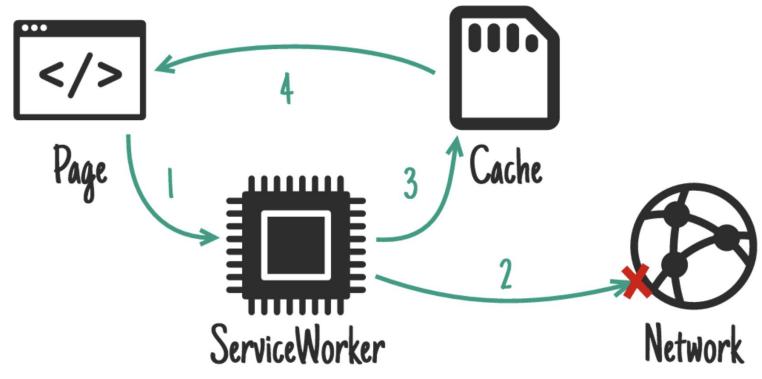


Cache First (Cache Falling Back to Network)



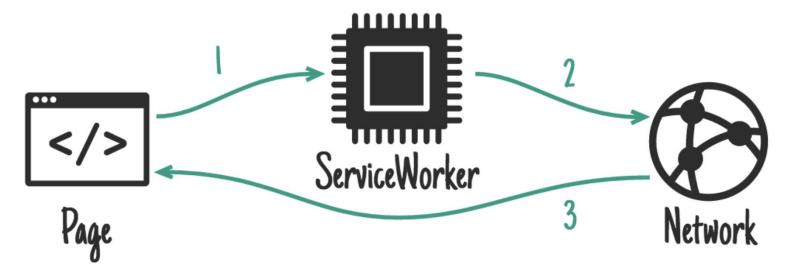


Network First (Network Falling Back to Cache)





Network Only





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