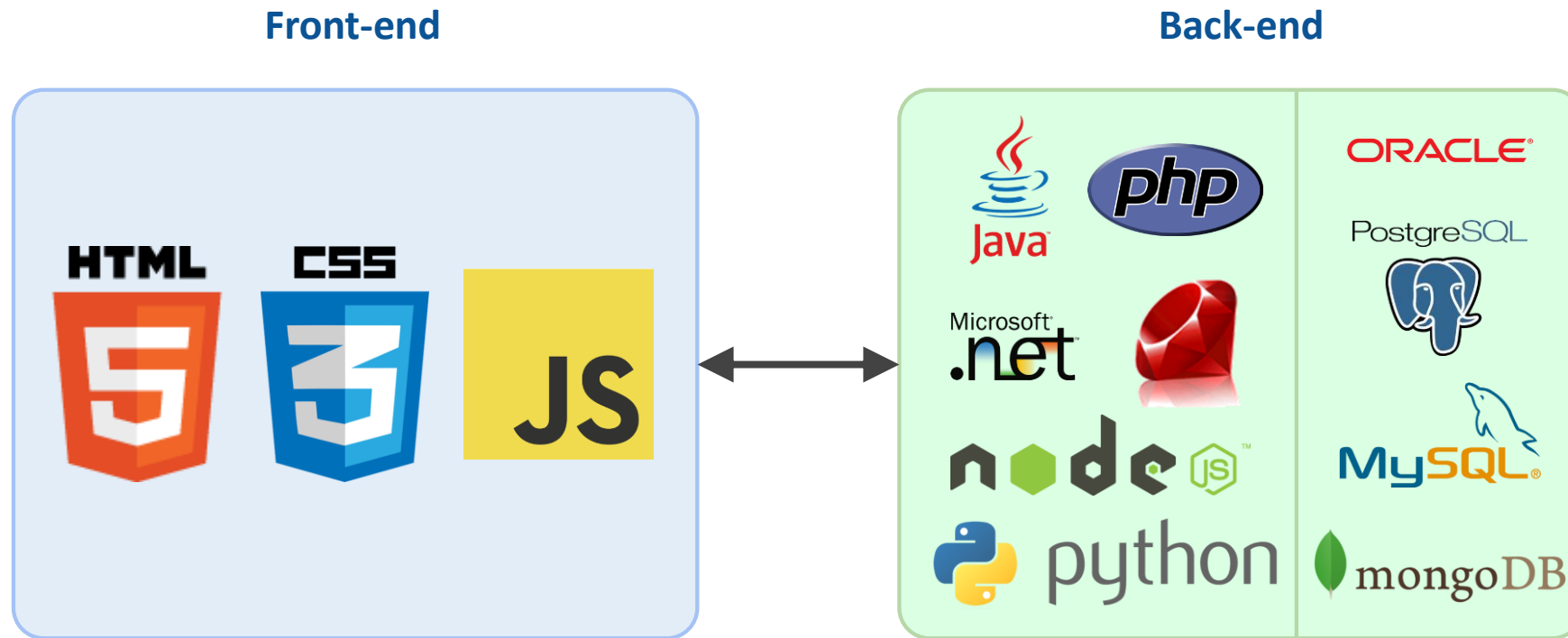


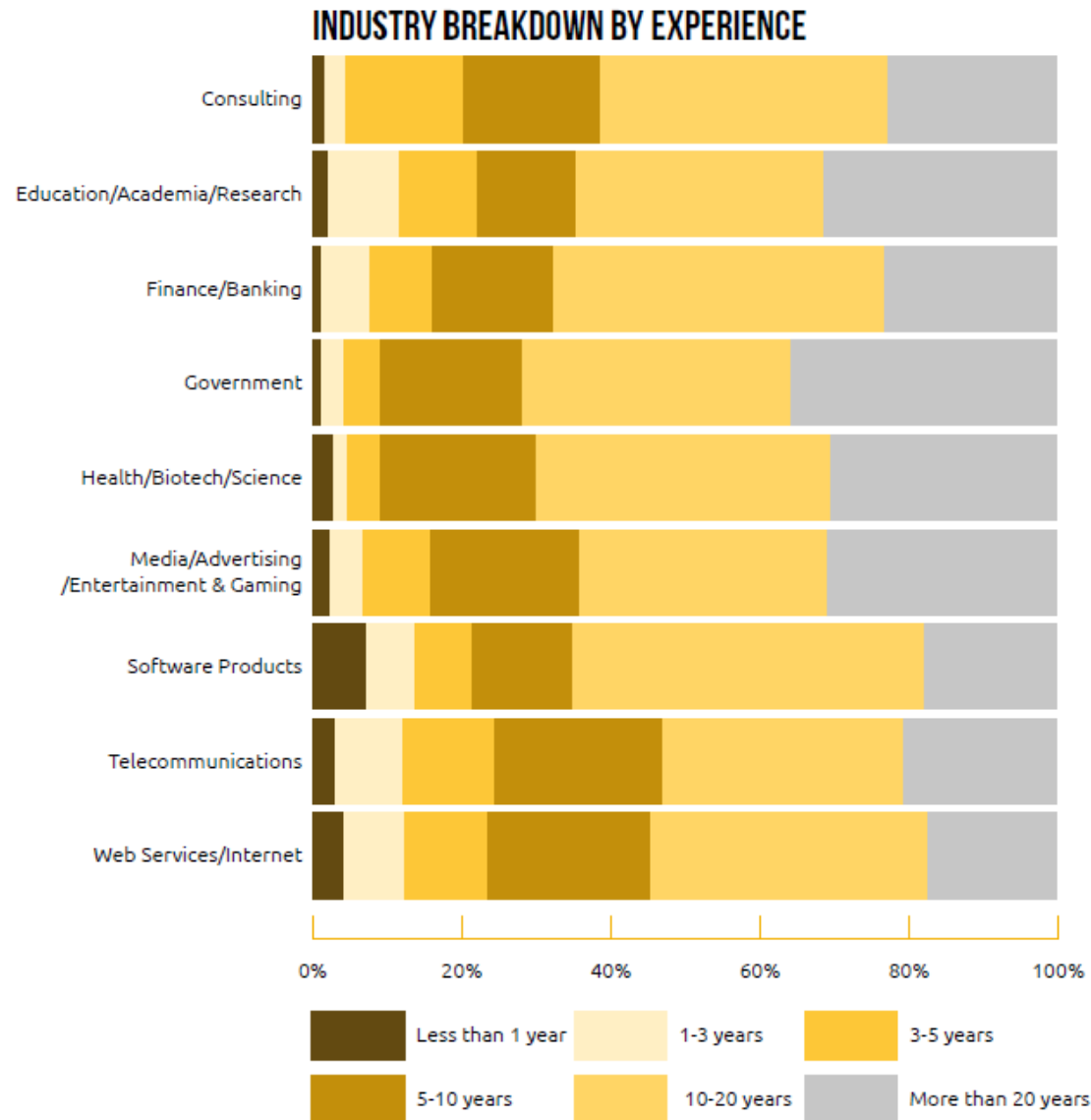
# 2 HTML, CSS, JS

jQuery

# Herramientas



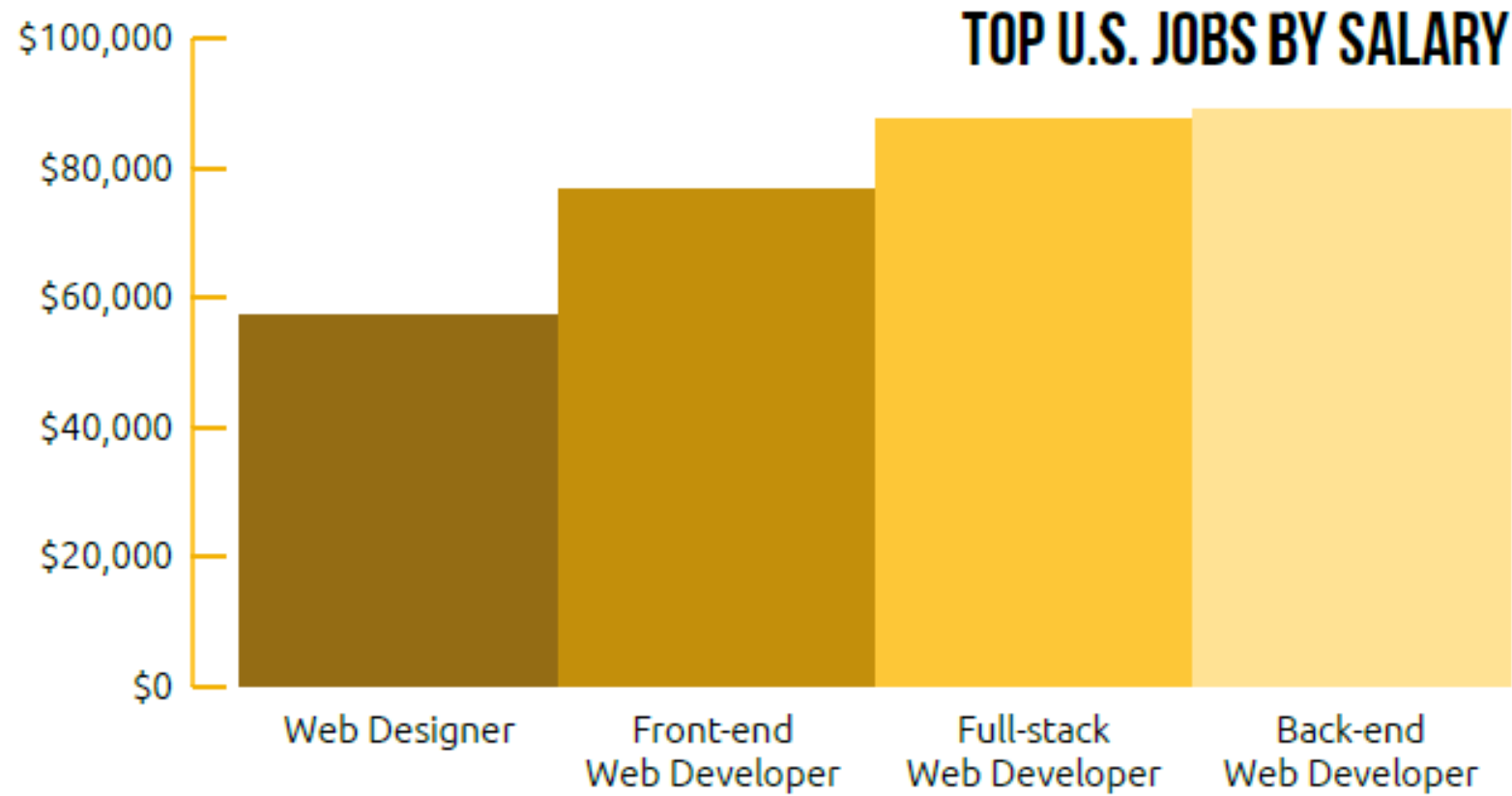
# Desarrollo WEB – Tecnologías y Habilidades



[PACKT]  
PUBLISHING

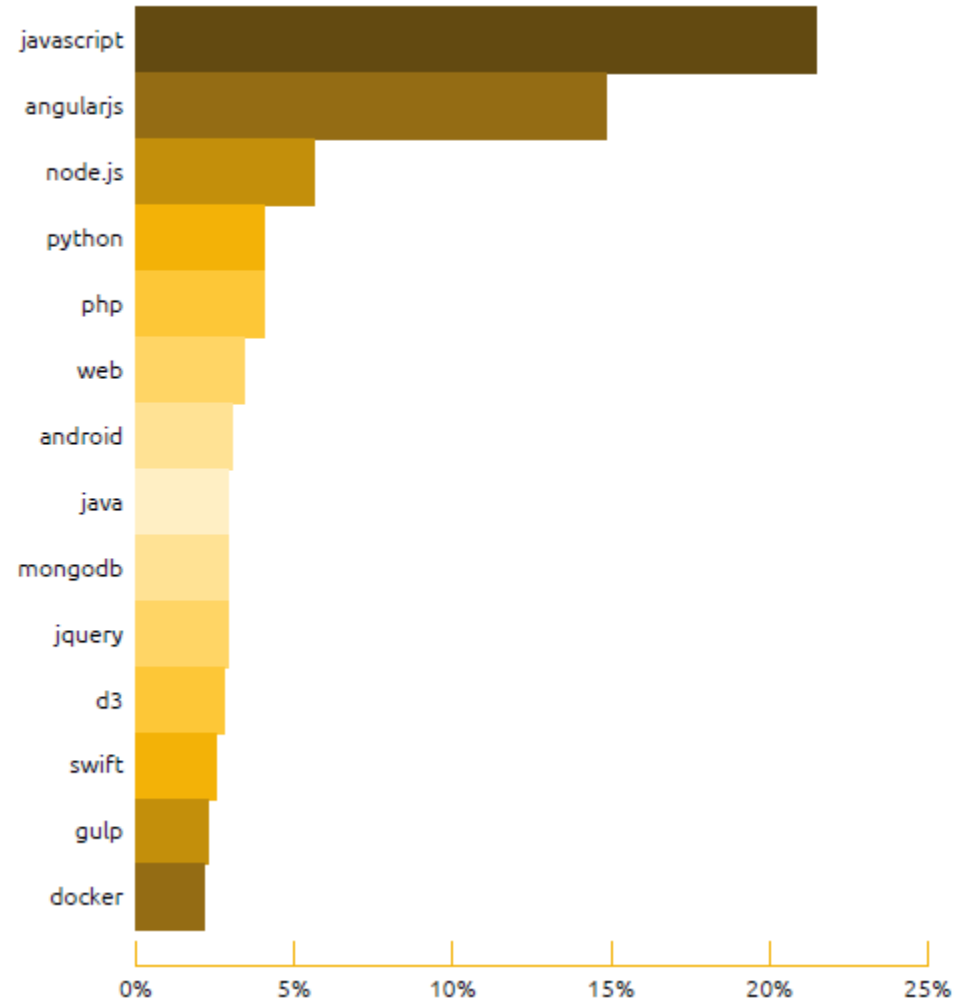
**20,000** desarrolladores  
**100** países

# Desarrollo WEB – Tecnologías y Habilidades

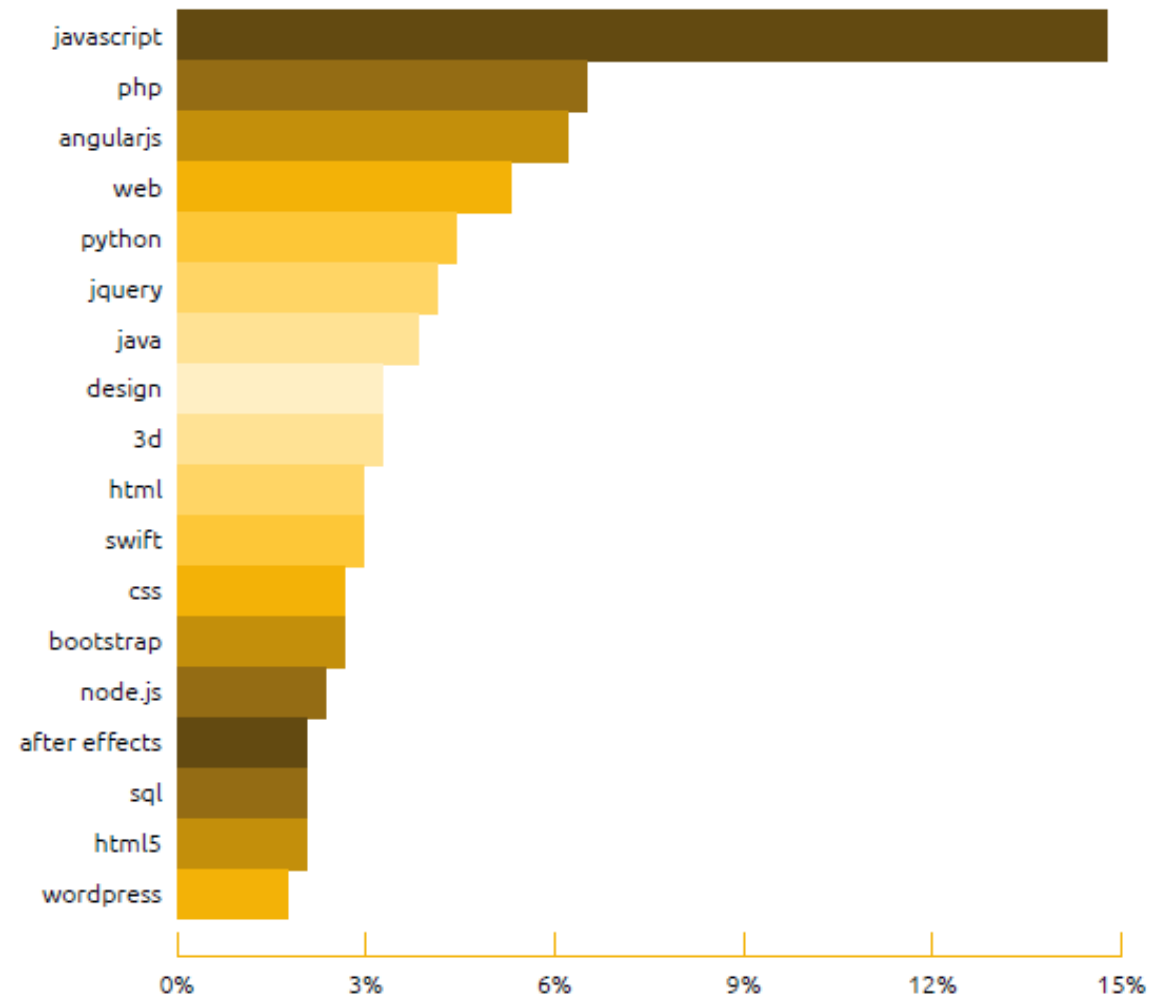


# Desarrollo WEB – Tecnologías y Habilidades

FRONT END DEVELOPERS TECHS

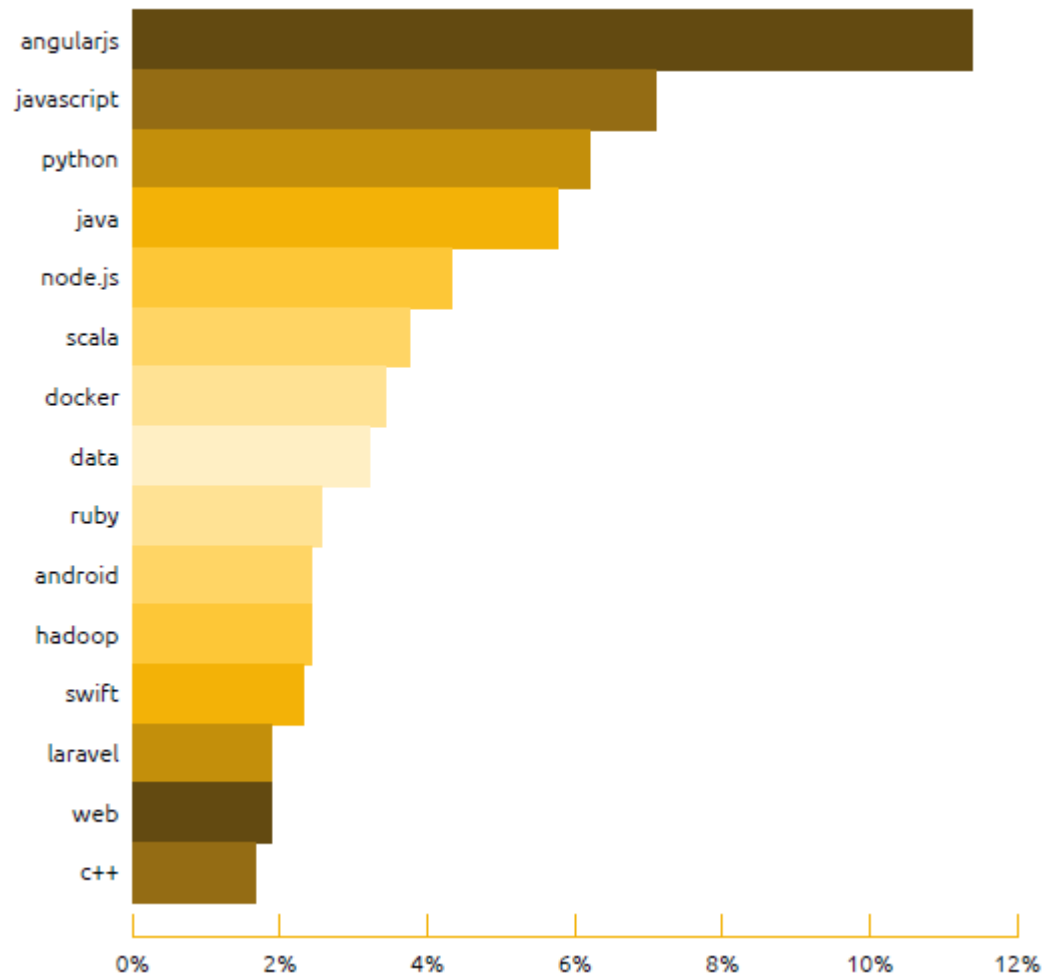


WEB DESIGNERS TOP TECHS

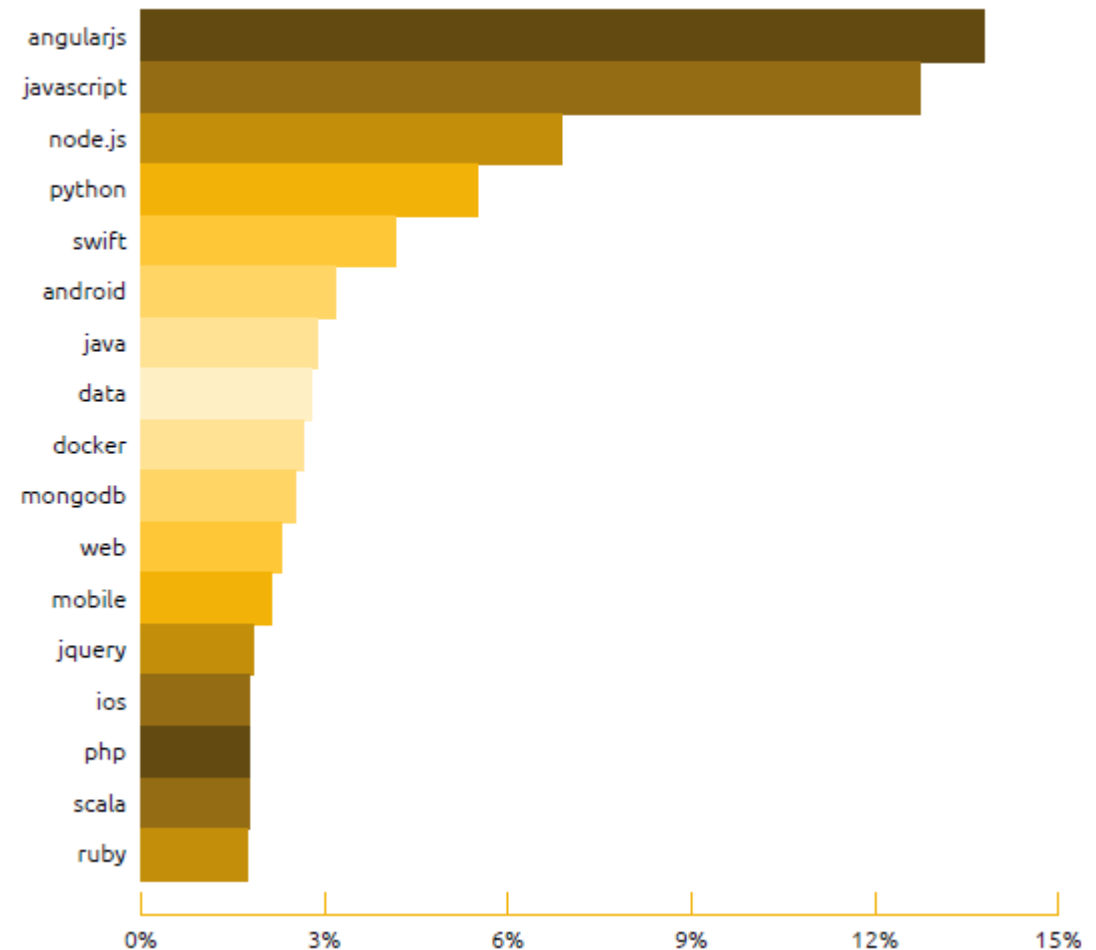


# Desarrollo WEB – Tecnologías y Habilidades

BACK END DEVELOPER TECH USAGE



FULL STACK DEVELOPERS TECH USAGE











Every 8 seconds or so, a developer asks a question on Stack Overflow. This year, 56,033 coders in 173 countries answered the call.

In January, **46 million** people visited Stack Overflow to get help or give help to a fellow developer. We estimate **16 million** of those people are professional developers



# Developer Survey Results

Full-Stack

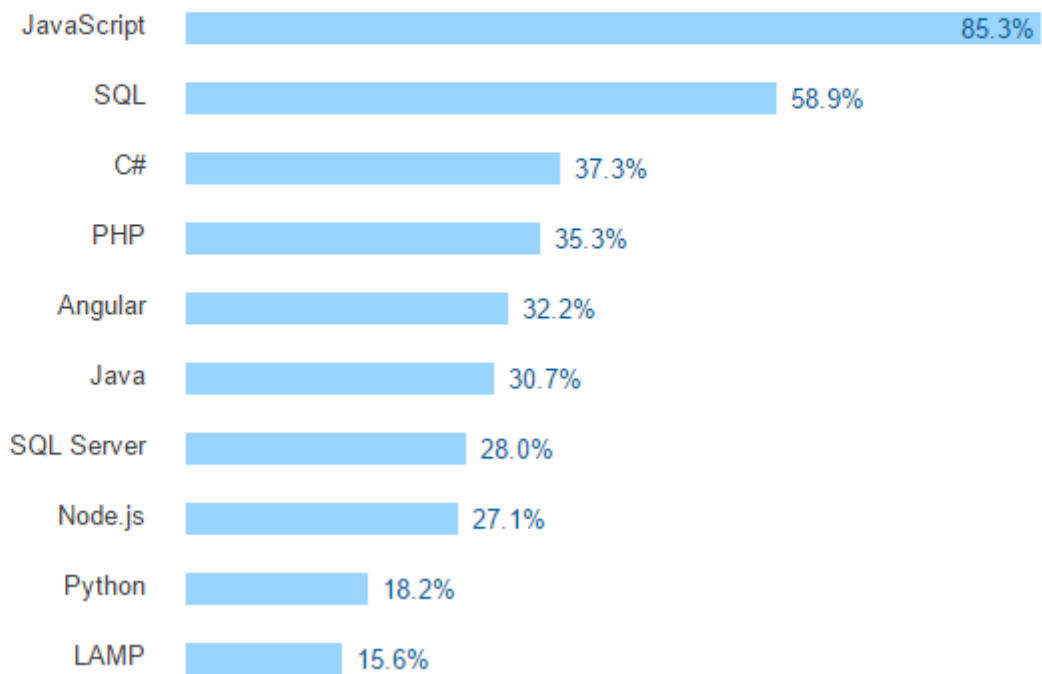
Front-End

Back-End

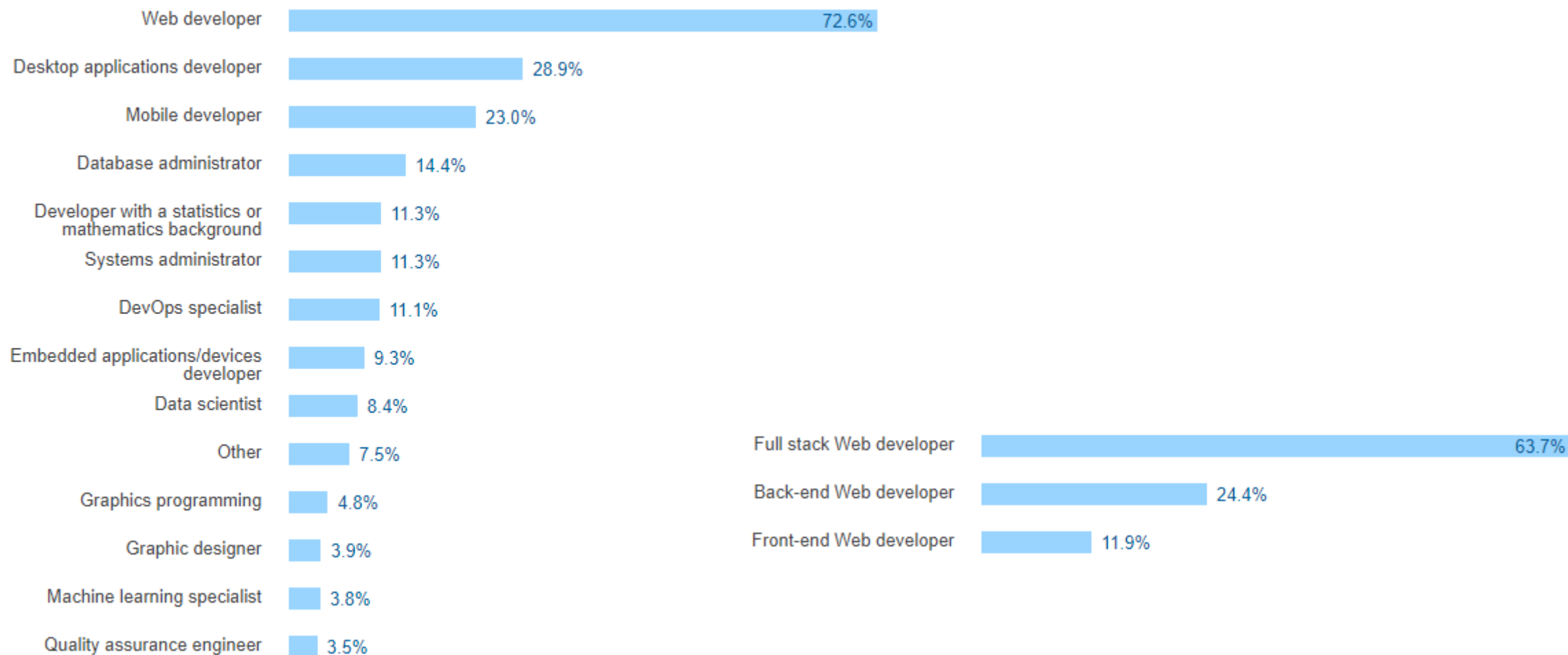
Mobile

Math & Data

Students

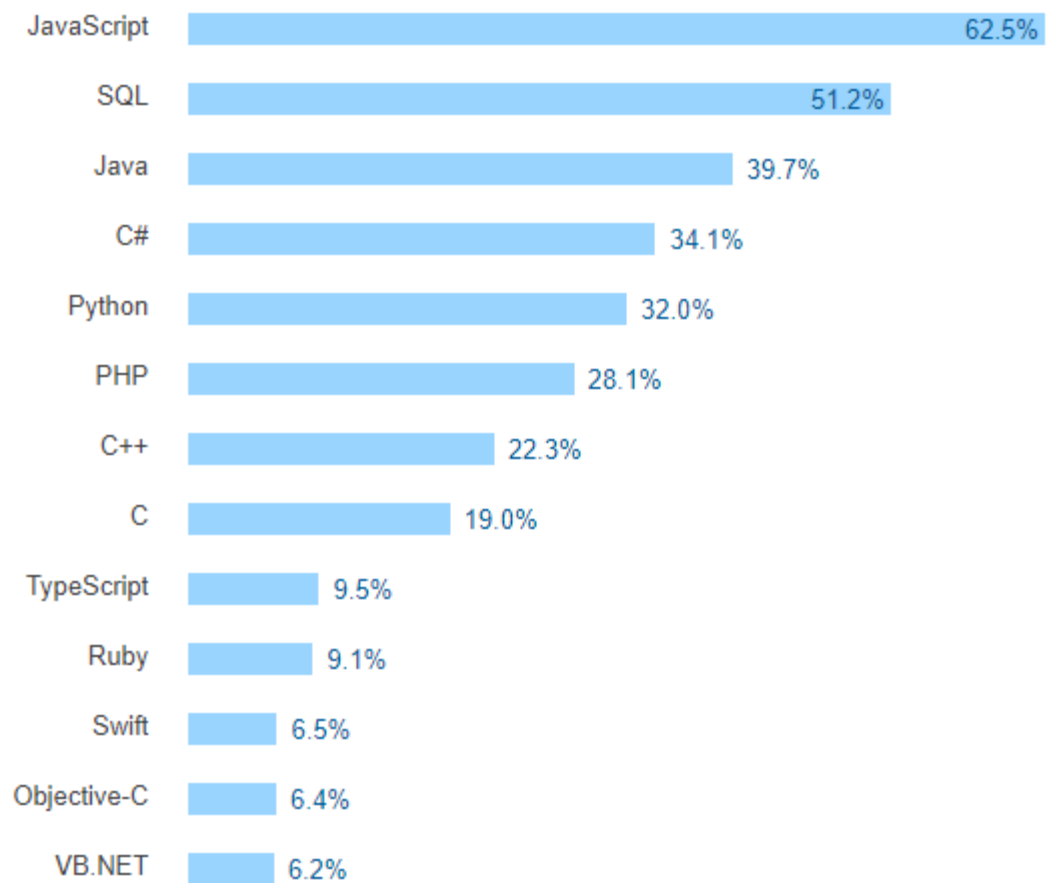


## Developer Survey Results



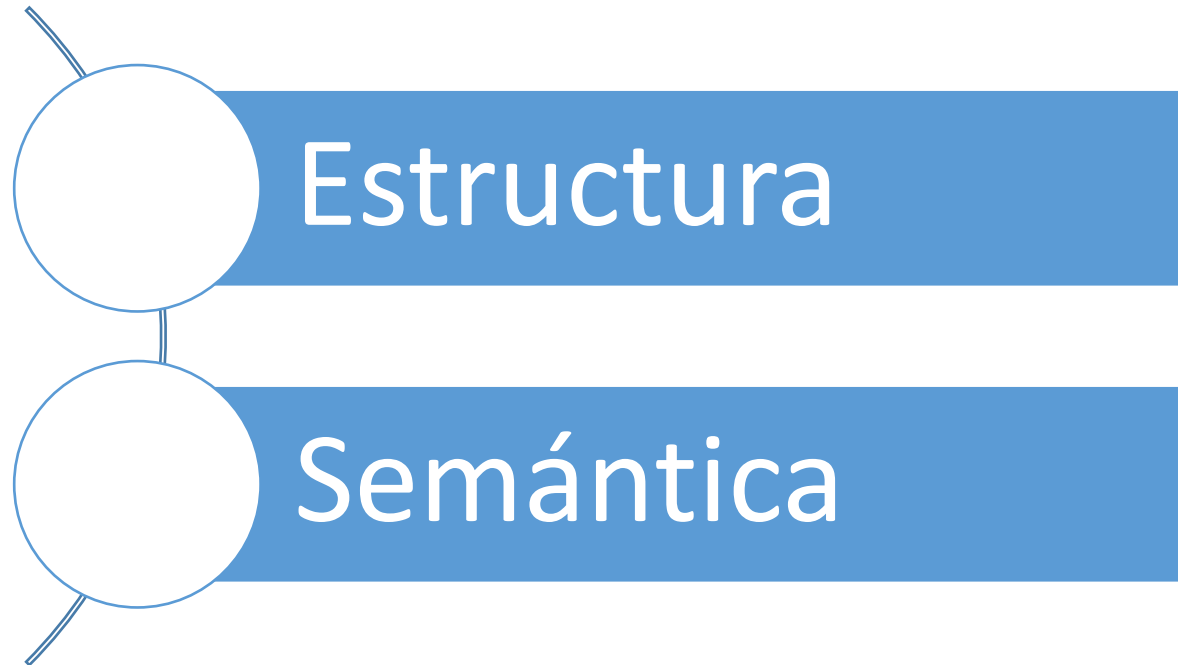


## Developer Survey Results



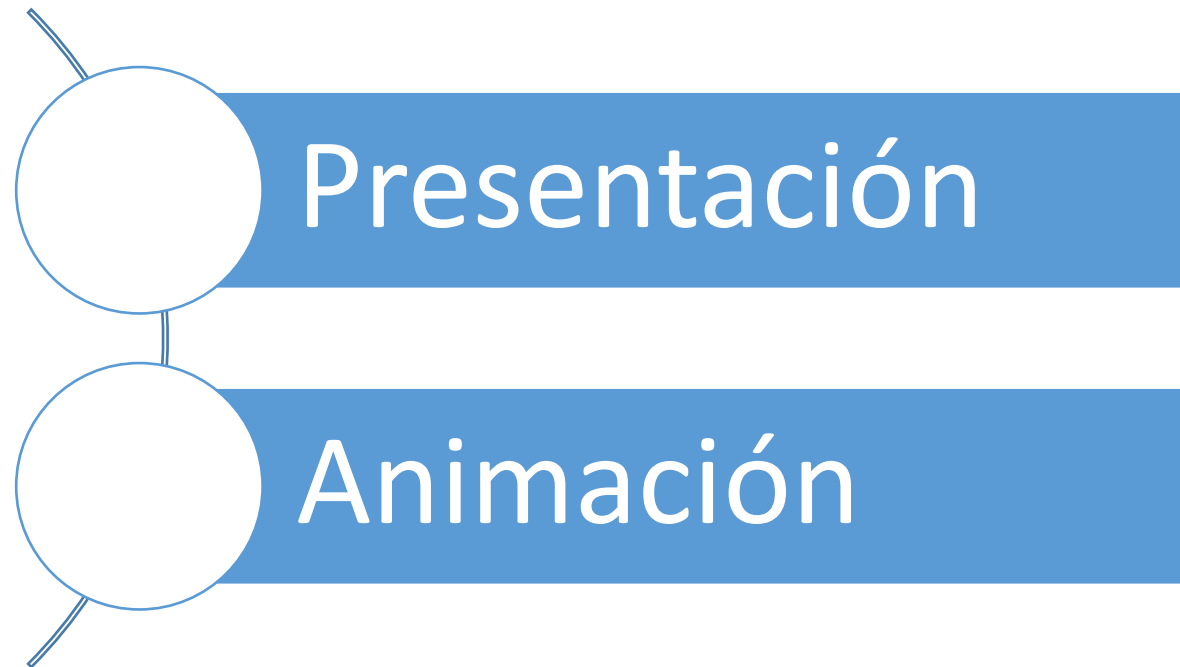
# HTML

## HYPERTEXT MARKUP LANGUAGE



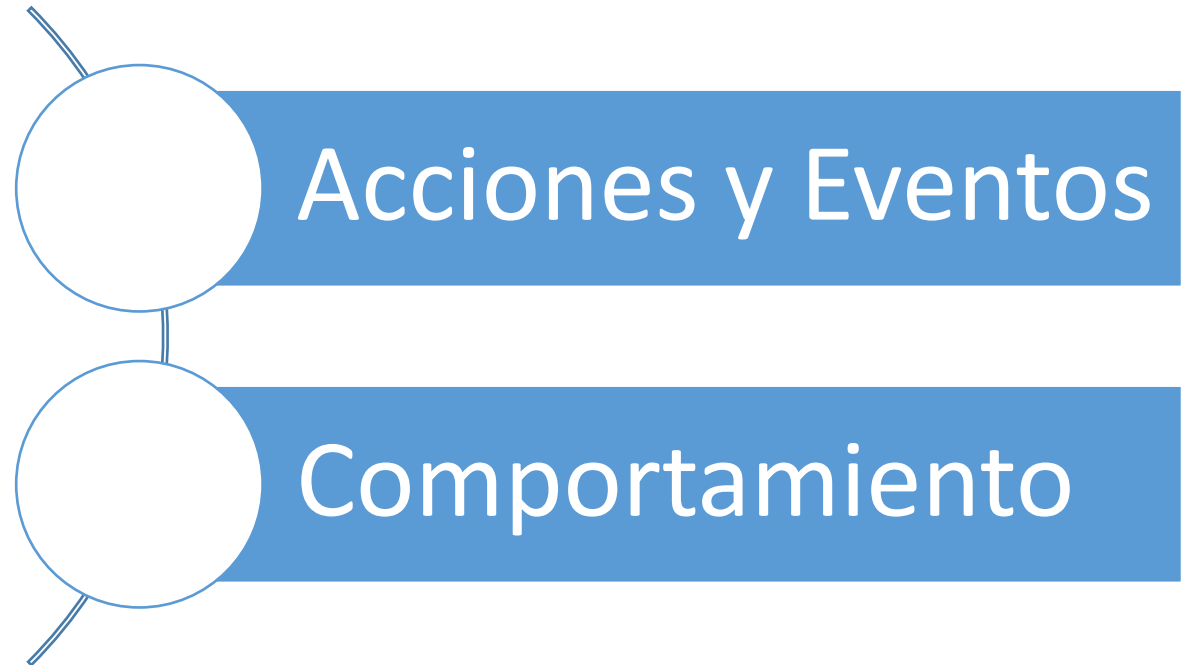
# CSS

## CASCADE STYLE SHEET



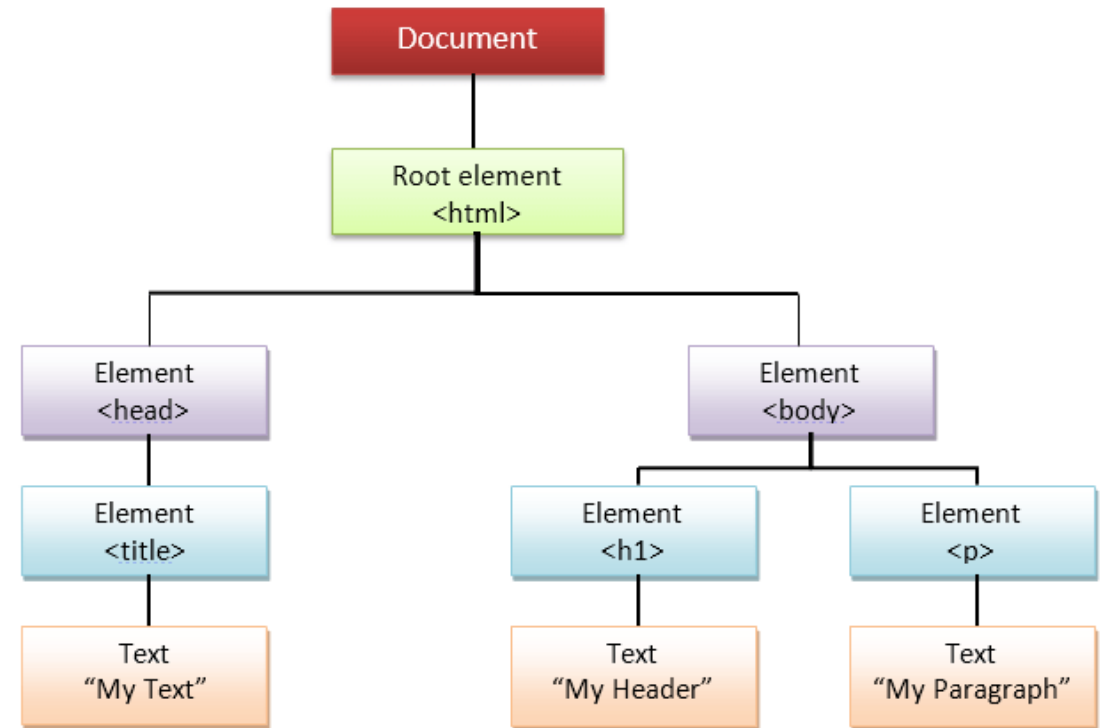
JS

## JAVASCRIPT



# Java Script – Document Object Model

- DOM es un estándar W3C (World Wide Web Consortium).
- *DOM es una interface neutral que permite a los programas y scripts interactuar **dinámicamente** y cambiar el **contenido, estructura y estilo** de un documento.*
- W3C DOM tiene 3 partes:
  - Core DOM – modelo para todo tipo de documento
  - XML DOM – modelo para documentos XML
  - HTML DOM – modelo para documentos HTML





# Ejemplo - Parte 1 - HTML

```
1      <!DOCTYPE html>
2
3      <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
4      <head>
5          <meta charset="utf-8" />
6          <title></title>
7          <link href="estilo.css" type="text/css" rel="stylesheet">
8          <script src="tablas.js" type="text/javascript"></script>
9      </head>
10
11     <body onload="crearTablas(document.getElementById('panel'));">
12     <div id="panel">
13
14     </div>
15 </body>
16 </html>
```

## Ejemplo - Parte 2 - CSS

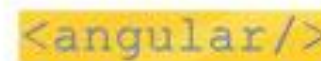
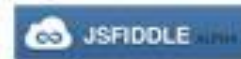
```
1 1 .rayado {  
2     background-color: lightgreen;  
3     font-family: sans-serif;  
4     font-size: 10pt;  
5 }  
6  
7 2 .rayado2 {  
8     background-color: lightskyblue;  
9     font-family: arial;  
10    font-size: 10pt;  
11 }
```

# Ejemplo - Parte 3 - JS

```
1 function crearTablas(panel) {  
2     var fragment = document.createDocumentFragment();  
3     var length = 15;  
4     for (var i = 1; i <= length*2; i++) {  
5         var tr = document.createElement("tr");  
6         for (var j = 1; j <= length; j++) {  
7             var td = document.createElement("td");  
8             if (j % 2 == 0)  
9                 td.setAttribute("class", "rayado");  
10            else  
11                td.setAttribute("class", "rayado2");  
12            var mult = i * j;  
13            td.innerHTML = i + "*" + j + "=" + mult;  
14            tr.appendChild(td);  
15        }  
16        fragment.appendChild(tr);  
17    }  
18    var tabla = document.createElement("table");  
19    tabla.appendChild(fragment);  
20    panel.appendChild(tabla);  
21 }
```

1*1=1	1*2=2	1*3=3	1*4=4
2*1=2	2*2=4	2*3=6	2*4=8
3*1=3	3*2=6	3*3=9	3*4=12
4*1=4	4*2=8	4*3=12	4*4=16
5*1=5	5*2=10	5*3=15	5*4=20
6*1=6	6*2=12	6*3=18	6*4=24
7*1=7	7*2=14	7*3=21	7*4=28
8*1=8	8*2=16	8*3=24	8*4=32
9*1=9	9*2=18	9*3=27	9*4=36

# Marcos de Trabajo - Javascript



# jQuery



jQuery is a **fast, small, and feature-rich JavaScript library**.

It makes things like HTML document *traversal and manipulation, event handling, animation*, and Ajax much **simpler** with an easy-to-use API that works *across a multitude of browsers*.

With a combination of *versatility and extensibility*, jQuery has changed the way that millions of people write JavaScript.

# jQuery



<https://jquery.com/download/>

<https://code.jquery.com/jquery-3.2.1.min.js>

<//ajax.googleapis.com/ajax/libs/jquery/1.8/jquery.min.js>



# Cambiar Contenido

```
1 <!DOCTYPE html>
2
3 <html lang="es-ec" xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5     <meta charset="utf-8" />
6     <title>Modificar</title>
7     <script src="jquery-3.1.0.min.js" type="text/javascript"></script>
8     <script type="text/javascript">
9         $(document).ready(function () {
10             $("#btn1").click(function () {
11                 $("#parrafo1").text("Saludos!");
12             });
13             $("#btn2").click(function () {
14                 $("#parrafo2").html("<h1>Esto es JQ!</h1>");
15             });
16             $("#btn3").click(function () {
17                 $("#txtNombre").val("Martha");
18             });
19         });
20     </script>
21 </head>
22 <body>
23     <p id="parrafo1">Este es un párrafo.</p>
24     <p id="parrafo2">Este es otro párrafo.</p>
25     <p>
26         Nombre: <input type="text" id="txtNombre" value="Mickey Mouse">
27     </p>
28     <button id="btn1">Cambiar Texto</button>
29     <button id="btn2">Cambiar HTML</button>
30     <button id="btn3">Cambiar un Valor</button>
31 </body>
32 </html>
```

# Animación

```
1  <!DOCTYPE html>
2
3  <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
4  <head>
5      <meta charset="utf-8" />
6      <title>Animación</title>
7      <script src="jquery-3.1.0.min.js" type="text/javascript"></script>
8      <script type="text/javascript">
9          $(document).ready(function () {
10              $("#btnAnimar").click(function () {
11                  $("#cuadro").animate({
12                      left: '250px',
13                      opacity: '0.5',
14                      height: '150px',
15                      width: '150px'
16                  });
17              });
18          });
19      </script>
20  </head>
21  <body>
22      <button id="btnAnimar">Animar</button>
23      <div id="cuadro" style="background-color:lightcoral;height:100px;width:100px;position:absolute;">
24      </div>
25  </body>
26  </html>
```



# Trabajo Colaborativo (Pares)

- Hacer una tabla de amortización en Javascript con jQuery

Monto  Plazo  Tasa

Calcular

Numero	Pago	Saldo
1	\$2,935.27	\$32,287.93
2	\$2,935.27	\$29,352.66
3	\$2,935.27	\$26,417.40
4	\$2,935.27	\$23,482.13
5	\$2,935.27	\$20,546.86
6	\$2,935.27	\$17,611.60
7	\$2,935.27	\$14,676.33
8	\$2,935.27	\$11,741.07
9	\$2,935.27	\$8,805.80
10	\$2,935.27	\$5,870.53
11	\$2,935.27	\$2,935.27
12	\$2,935.27	\$0.00

```
double pago = ((monto * tasa)
               / (1-1/Math.pow(1+tasa, plazo) ));
```