



UNIVERSIDAD AUTÓNOMA DE SINALOA



Facultad de Informática Culiacán  
Licenciatura en Informática

## Estructura de datos

**Actividad:**  
PDF Restcountries Tabla

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Culiacán, Sinaloa, 12 de enero del 2025.

## Código de Restcountries (Tabla):

```
1  <!DOCTYPE html>
2  <html lang="es">
3  <head>
4  |   <meta charset="UTF-8">
5  |   <title>Tabla de Países</title>
6  |   <meta name="viewport" content="width=device-width, initial-scale=1">
7  |
8  |<!-- Bootstrap CSS -->
9  |<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
10 </head>
11
12 <body class="bg-light">
13
14 |<!-- Navbar -->
15 |<nav class="navbar navbar-dark bg-primary">
16 |   <div class="container">
17 |     <span class="navbar-brand mb-0 h1">Tabla de Países</span>
18 |   </div>
19 |</nav>
20
21 <div class="container my-4">
22
23 |<div id="loading" class="text-center my-5">
24 |  <div class="spinner-border text-primary" role="status"></div>
25 |  <p class="mt-3">Cargando datos de países...</p>
26 |</div>
27
28 |<!-- Tabla de Países -->
29 |<div class="table-responsive">
30 |  <table id="countriesTable" class="table table-striped table-bordered table-hover align-middle" style="display:none;">
31 |    <thead class="table-dark">
32 |      <tr>
33 |        <th>Bandera</th>
34 |        <th>Nombre</th>
35 |        <th>Capital</th>
36 |        <th>Idiomas</th>
37 |        <th>Subregion</th>
38 |        <th>Población</th>
39 |        <th>Área (km²)</th>
40 |        <th>Idiomas</th>
41 |        <th>Monedas</th>
42 |        <th>Fronteras</th>
43 |      </tr>
44 |    </thead>
45 |    <tbody></tbody>
46 |  </table>
47 |</div>
48 |</div>
```

```
51 <!-- Bootstrap JS -->
52 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
53
54 <script>
55   const apiUrl = "https://restcountries.es.com/v3.1/all?fields=name,flags,capital,region,subregion,population,area,languages,currencies,borders";
56   const table = document.getElementById("countriesTable");
57   const tbody = table.querySelector("tbody");
58   const loading = document.getElementById("loading");
59
60   fetch(apiUrl)
61     .then(response => response.json())
62     .then(data => {
63       loading.style.display = "none";
64       table.style.display = "table";
65
66       data.forEach(country => {
67         const flag = country.flags.png || "";
68         const name = country.name.common || "N/D";
69         const capital = country.capital ? country.capital[0] : "N/D";
70         const region = country.region || "N/D";
71         const subregion = country.subregion || "N/D";
72         const population = country.population.toLocaleString() || "N/D";
73         const area = country.area.toLocaleString() || "N/D";
74         const languages = country.languages ? Object.values(country.languages).join(", ") : "N/D";
75         const currencies = country.currencies
76           ? Object.values(country.currencies).map(c => `${c.name} ${c.symbol}`).join(", ")
77           : "N/D";
78
79         const borders = country.borders ? country.borders.join(", ") : "Ninguna";
80
81         tbody.innerHTML += `
82           <tr>
83             <td></td>
84             <td>${name}</td>
85             <td>${capital}</td>
86             <td>${region}</td>
87             <td>${subregion}</td>
88             <td>${population}</td>
89             <td>${area}</td>
90             <td>${languages}</td>
91             <td>${currencies}</td>
92             <td>${borders}</td>
93           </tr>
94         `;
95       });
96     .catch(error => {
97       loading.innerHTML = "<p class='text-danger'>Error al cargar los datos</p>";
98       console.error(error);
99     });
100   </script>
101 </body>
102 </html>
```

Tabla de Países

Bandera	Nombre	Capital	Región	Subregión	Población	Área (km²)	Idiomas	Monedas	Fronteras
	Antigua and Barbuda	Saint John's	Americas	Caribbean	103,603	442	English	Eastern Caribbean dollar (\$)	
	Bhutan	Thimphu	Asia	Southern Asia	784,043	38,394	Dzongkha	Bhutanese ngultrum (Nu.), Indian rupee (₹)	CHN, IND
	Italy	Rome	Europe	Southern Europe	58,927,633	301,336	Italian, Catalan	Euro (€)	AUT, FRA, SMR, SVN, CHE, VAT
	Tuvalu	Funafuti	Oceania	Polynesia	10,643	26	English, Tuvaluan	Australian dollar (\$), Tuvaluan dollar (\$)	
	Anguilla	The Valley	Americas	Caribbean	16,010	91	English	Eastern Caribbean dollar (\$)	
	Australia	Canberra	Oceania	Australia and New Zealand	27,536,874	7,692,024	English	Australian dollar (\$)	
	Belize	Belmopan	Americas	Central America	417,634	22,966	Belizean Creole, English, Spanish	Belize dollar (\$)	GTM, MEX
	Vanuatu	Port Vila	Oceania	Melanesia	321,409	12,189	Bislama, English, French	Vanuatu vatu (Vt)	
	Belarus	Minsk	Europe	Eastern Europe	9,109,280	207,600	Belarusian, Russian	Belarusian ruble (Br)	LVA, LTU, POL, RUS, UKR
	Mauritius	Port Louis	Africa	Eastern Africa	1,243,741	2,040	English, French, Mauritian Creole	Mauritian rupee (Rs)	
	Laos	Vientiane	Asia	South-	7,647,000	236,800	Lao	Lao kip (₭)	MMR, KHM, CHN,

El código consume la API Rest Countries para obtener información de distintos países y mostrarla en una tabla HTML con diseño responsive usando Bootstrap. Se incluyen propiedades básicas y adicionales como población, área, idiomas, monedas y fronteras, y se mejora la experiencia del usuario mostrando un indicador de carga mientras se obtienen los datos.