₹ CSS.css

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Tecnologias Web Tabelas

HTML – **CSS** – JavaScript – PHP - AJAX









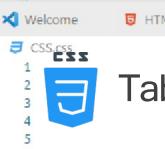








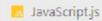
















Tabelas - elementos

table

caption

colgroup

col

thead

tfoot

tbody

tr

td

th

tabela

legenda da tabela

grupo de colunas

coluna da tabela

cabeçalho da tabela

rodapé da tabela

corpo da tabela

linha da tabela

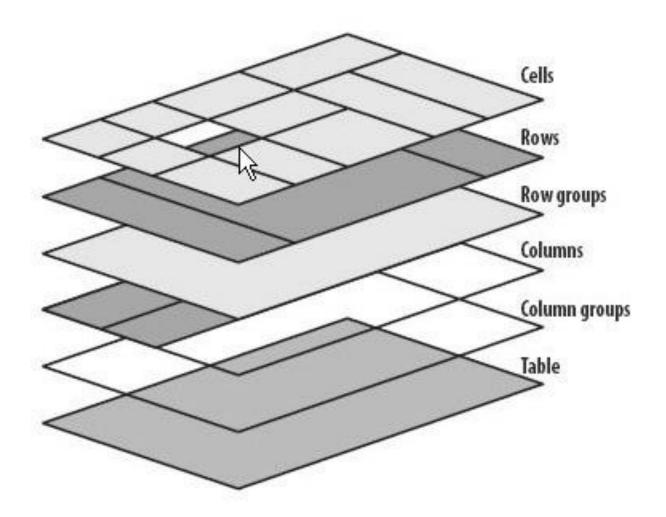
célula da linha da tabela

célula da linha do cabeçalho





Tabelas - camadas de formação





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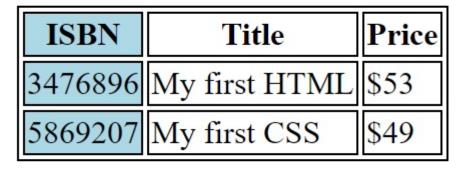
33 34 35

Tabelas - Base

```
<colgroup>
 <col style="background-color:lightblue">
</colgroup>
ISBN
 Title
 Price
3476896
 My first HTML
 $53
5869207
 My first CSS
 $49
```

Source:

https://www.w3schools.com/html/html tables.asp







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Tabelas - Estrutura como exemplo

```
<thead>
   Items
    Expenditlure
   </thead>
 Donuts
    3,000
   Stationery
    18,000
   <tfoot>
    Totals
    21,000
   </tfoot>
```

Items	Expenditlure 3,000	
Donuts		
Stationery	18,000	
Totals	21,000	

Source:

https://developer.mozilla.org/pt-BR/docs/Web/HTML/Element/tfoot



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Tabelas - colspan e rowspan

```
Name
 Email
 Phone
John Doe
 john.doe@example.com
 123-45-678
 212-00-546
<h3>Cell that spans two rows:</h3>
Name:
 John Doe
Email:
 john.doe@example.com
Phone:
 123-45-678
212-00-546
```

Source:

https://www.w3schools.com/html/html table colspan rowspan.asp

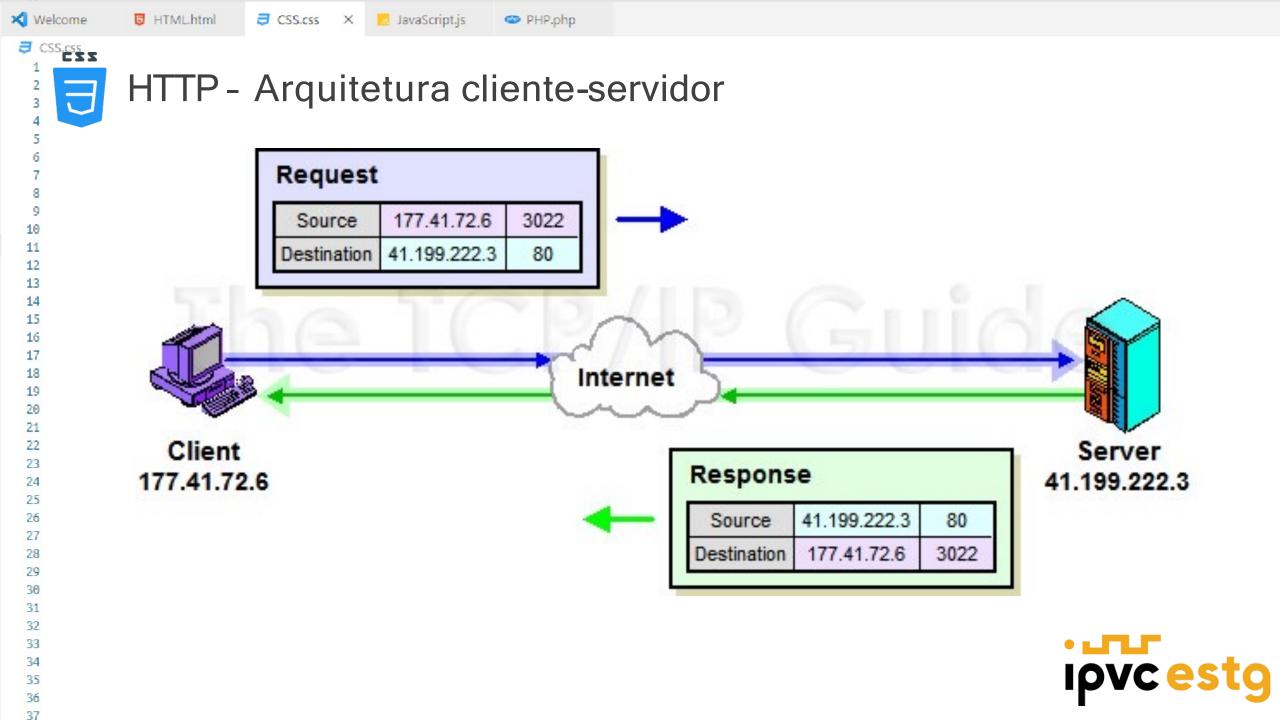
Cell that spans two columns:

Name	Email	Phone	
John Doe	john.doe@example.com	123-45-678	212-00-546

Cell that spans two rows:

Name:	John Doe
Email:	john.doe@example.com
Phone:	123-45-678
	212-00-546







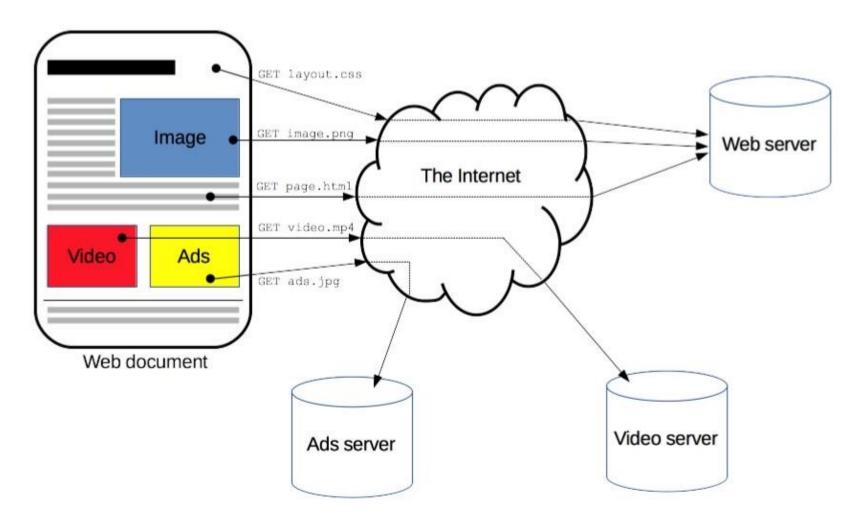
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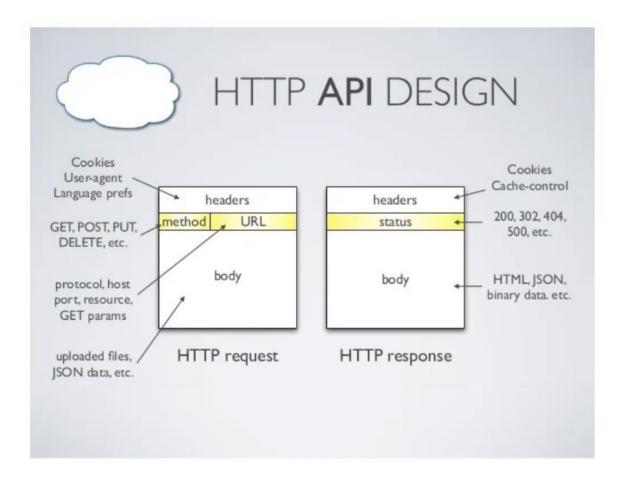
HTTP - Arquitetura cliente-servidor







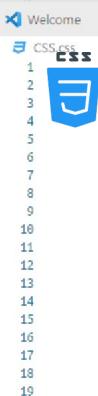
HTTP - Pedidos e Respostas



Source:

https://gorest.co.in/public/v2/users https://jsonplaceholder.typicode.com/guide/





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CSS.css

JavaScript.js

PHP.php

HTTP - Verbos - Ajax

GET

POST

PUT

PATCH

DELETE

etc

https://www.w3schools.com/xml/tryit.asp?filename=tryajax_get

https://www.w3schools.com/xml/tryit.asp?filename=tryajax_get_unique

https://www.w3schools.com/xml/tryit.asp?filename=tryajax_get2

https://www.w3schools.com/xml/tryit.asp?filename=tryajax_post2

Sources:

https://restfulapi.net/http-methods/

https://www.baeldung.com/http-put-patch-difference-spring





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HTTP - Códigos de status de respostas HTTP

Os códigos de *status* das respostas HTTP indicam se uma requisição HTTP foi corretamente concluída.

As respostas podem ser agrupadas desta forma:

- 1. Respostas de informação (100-199)
- 2. Respostas de sucesso (200-299)
- 3. Redirecionamentos (300-399)
- 4. Erros do cliente (400-499)
- 5. Erros do servidor (500-599).

200 OK

400 Bad Request

401 Unauthorized

403 Forbidden

404 Not found

405 Method not allowed

500 Internal server error

Sources:

https://developer.mozilla.org/pt-BR/docs/Web/HTTP/Status





Tecnologias Web

Javascript

HTML – CSS – JavaScript – PHP - AJAX

















```
× Welcome
₹ CSS.css
  23
  24
```

```
JavaScript - scope
```

```
<script>
    // Global scope
    function myFunction() {
        // Local scope
</script>
```



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JavaScript - Variáveis - var, let e const

VAR

- Global e Local scoped
- Podem ser alteradas
- Podem ser declaradas novamente
- Hoisting: true

Sources:

https://www.w3schools.com/js/js_hoisting.asp



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JavaScript - VAR exemplos

```
var global = "teste1";
function print() {
   var local = "teste2";
console.log(local); // Erro: "local" is not defined
```

```
var teste = "teste1";
var teste = "teste2";
console.log(teste); // teste2
```

```
console.log(teste); // teste is undefined
teste = "teste";
// é interpretado como
var teste:
console.log(teste); // teste is undefined
teste = "teste";
```

```
var hello = "ola mundo";
var conta = 4;
if (conta > 3) {
   var hello = "hello world";
console.log(hello) // hello world
```



JavaScript - LET

- Block scoped
- Podem ser alteradas
- Não podem ser declaradas novamente

PHP.php

• Hoisting: false





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JavaScript - LET exemplos

```
let hello = "ola mundo";
let conta = 4;
if (conta > 3) {
   let hello = "hello world";
    console.log(hello) // hello world
console.log(hello) // ola mundo
```

```
let teste = "teste1";
let teste = "teste2";
console.log(teste); // Erro: Identifier 'teste' has already been declared
```



JavaScript - CONST

- Block scoped {}
- Não podem ser alteradas, mas as propriedades podem
- Não podem ser declaradas novamente
- Hoisting: false



JavaScript - CONST exemplos

```
const hello = "ola mundo";
hello = "hello world";//Erro : Assignment to constant variable.
```

```
const hello = "ola mundo";
const hello = "hello world";//Erro : Identifier 'hello' has already been declared
```

```
const hello = {
    ola: "ola",
    mundo: "mundo"
hello = {
   ola: "hello",
    mundo: "world"
} //Erro : Assignment to constant variable.
```

```
const hello = {
   ola: "ola",
   mundo: "mundo"
hello.mundo = "world";
```



JavaScript - functions

- Regular functions
- Arrow functions

Diferença no THIS

- Regular objeto que invoca a função
- Arrow proprietário da função

```
hello = function() {
  return "Hello World!";
```

```
hello = () => {
  return "Hello World!";
```

```
hello = () => "Hello World!";
```





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JavaScript - functions

```
<body>
    <button id="btn">Isto é um botão</putton>
</body>
<script>
    var hello = "hello world"
    function regular() {
        console.log(this.hello) // under
        console.log(this.innerText)
    arrow = () \Rightarrow {
        console.log(*
    docume
```





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JavaScript - Mutações

- Arrays
- Objects

```
const person = {
    name: 'John Doe',
    email: 'john@doe.com'
};
const samePerson = person;
person.name = "Jane Doe";
console.log(samePerson); // {name: "Jane Doe", email: "john@doe.com"}
```

```
const cities = ['Oslo', 'Rome', 'Cork', 'Paris', 'London', 'Bern'];
const copy = cities;
cities.splice(2);
console.log(copy); // ['Oslo', 'Rome']
```





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JavaScript - Mutações

- Push X
- Unshift X
- Splice ×
- Pop X
- Fill X
- Reverse X
- Concat ✓
- Slice ✓
- Es6 spread operator ✓

Sources:

https://www.w3schools.com/jsref/jsref obj array.asp

```
const numbers = [1, 2];
const moreNumbers = [...numbers, 3];
```





JavaScript - Mutações

- Direct addition ×
- Object assign ✓
- Es6 spread operator ✓

```
const person = {name: 'John Doe', email: 'john@doe.com'};
const samePerson = {...person};
const copy = Object.assign({}, person);
console.log(person); // { name: 'John Doe', email: 'john@doe.com' }
console.log(samePerson); // { name: 'John Doe', email: 'john@doe.com' }
console.log(copy); // { name: 'John Doe', email: 'john@doe.com' }
```





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JavaScript - Arrays

usefull Functions

- map Creates a new array with the result of calling a function for each array element
- **forEach** -Calls a function for each array element
- **filter** Creates a new array with every element in an array that pass a test
- concat Joins two or more arrays, and returns a copy of the joined arrays
- **some** Returns true or false if passes the test
- **find** Returns the value of the first element in an array that pass a test
- **findIndex** Returns the index of the first element in an array that pass a test
- **indexOf** Search the array for an element and returns its position





JavaScript - Some Best Practices

- Minimize the use of global variables.
- All variables used in a function should be declared as local variables.
- Initialize Variables
- Use === Comparison
- Assign default values to arguments
- Reduce Activity in Loops
- Reduce DOM access
- Avoid duplicated or unnecessary variables



JavaScript - Storage (local & session)

Guardar Informação no browser, mas apenas na sessão, isto é se trocar de tab por exemplo esta storage é perdida

```
// Store
sessionStorage.lastName = "Smith";
// Retrieve
sessionStorage.lastName;
// Delete
sessionStorage.removeItem("lastname");
```

Guardar Informação no browser, mas apenas no browser, logo é possivel utilizar a mesma storage em várias tabs.

```
// Store
localStorage.setItem("lastname", "Smith");
// Retrieve
localStorage.getItem("lastname");
// Delete
localStorage.removeItem("lastname");
```





JavaScript - Storage (local & session e Cookies)

	Cookies	Local storage	Session storage
Capacity	4KB	10MB	5MB
Accessible from	Any window	Any window	Same tab
Expiration	Manually set	Never	On tab close
Storage location	Browser and server	Browser only	Browser only
Sent with requests	Yes	No	No
Blockable by users	Yes	Yes	Yes
Editable by users	Yes	Yes	Yes

Source:

23 24 25

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https://www.30secondsofcode.org/articles/s/cookies-local-storage-session

