

Javascript Intermediário por C25

Aulas

- 07/11 Raphael DOM
- 10/11 Raphael DOM
- 10/11 Raphael BOM
- 14/11 Raphael BOM
- 17/11 Pedro AJAX
- 19/11 Pedro AJAX
- 21/11 Pedro Prática

Sobre os instrutores

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Aula 01 - DOM

Aula 01 - DOM

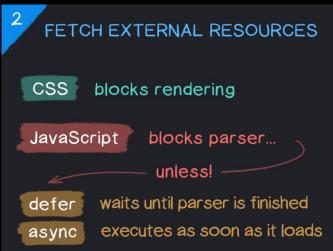
- 1. XML E**X**tensible **M**arkup **L**anguage
- 2. HTML **H**yper**T**ext **M**arkup **L**anguage
 - a. Wikipedia Pt: Hipertexto é o termo que remete a um texto ao qual se agregam outros conjuntos de informação na forma de blocos de textos, palavras, imagens ou sons, cujo acesso se dá através de referências específicas, no meio digital denominadas hiperligações.
 - b. Wikipedia Eng: Documents that are connected by hyperlinks.
- 3. O que é DOM? **D**ocument **O**bject **M**odel
- 4. API do DOM
 - a. https://developer.mozilla.org/pt-BR/docs/DOM/Referencia_do_DOM/Introdu%C3%A7%C3%A3o
- 5. Exemplo de variações entre browsers
 - a. https://developer.mozilla.org/en-US/docs/Web/API/HTML_DOM_API#Browser_compatibility
- 6. **Prática:** Dropdowns para alterar fontes, cores, background, etc.

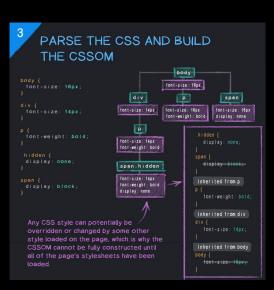
XML > (X)HTML

Mostrar o que é XML e a definição de um documento (X)HTML. https://www.w3schools.com/HTML/html_xhtml.asp
https://www.w3schools.com/xml/schema_intro.asp

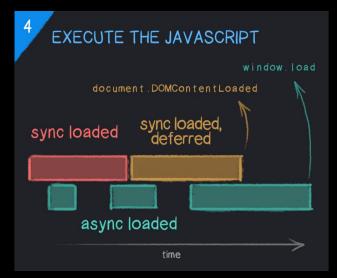
DOM

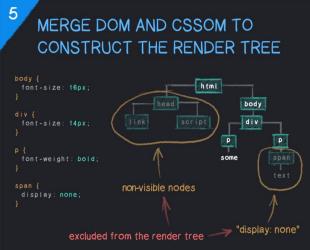


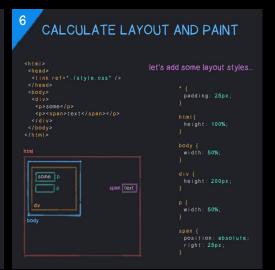




DOM







Prática

https://github.com/contact2sale/trilhaDeDevs2020/tree/master/aula_01

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Aula 02 - DOM

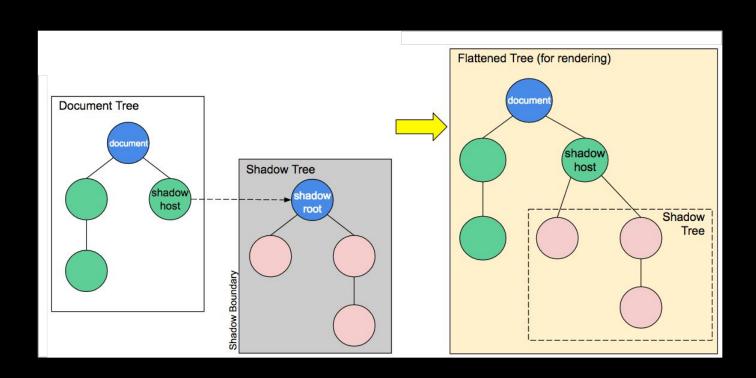
Aula 02 - DOM

- 1. DOM
- 2. Shadow DOM
 - a. https://www.w3schools.com/tags/tryit.asp?filename=tryhtml5_video_src
- 3. Virtual DOM
 - a. https://pt-br.reactjs.org/docs/faq-internals.html
- 4. Manipulação de nós com DOM
 - a. Parent
 - b. Children
 - c. Siblings
 - d. Closest
 - e. Next
- 5. Manipulação de nós com Virtual DOM
 - a. https://pt-br.reactjs.org/docs/refs-and-the-dom.html
- 6. **Prática:** Etiquetas dinâmicas

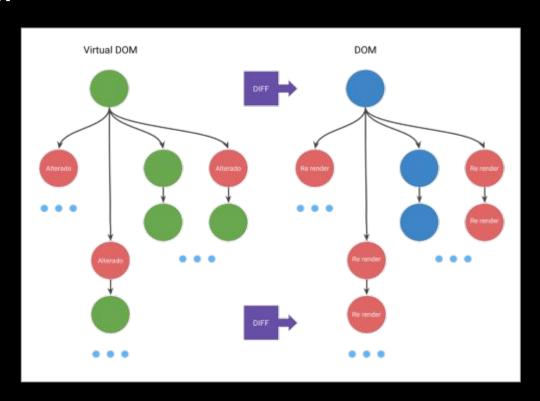
DOM

```
DOCTYPE: html
HTML
 HEAD
  -#text:
   _META charset="utf-8"
  -#text:
   TITLE
    L#text: Simple DOM example
  #text:
 #text:
 BODY
  -#text:
   SECTION
    -#text:
    LIMG src="dinosaur.png" alt="A red Tyrannosaurus Rex: A two legged dinosaur standing
     upright like a human, with small arms, and a large head with lots of sharp teeth."
    -#text:
     -#text: Here we will add a link to the
     A href="https://www.mozilla.org/"
       #text: Mozilla homepage
    #text:
   -#text:
```

Shadow DOM



Virtual DOM



Manipulação de nós com DOM

Speed Comparison

Here are a few examples of just how fast Vanilla 35 really is:

Retrieve DOM element by ID

	Code	ops / sec
Vanilla JS	<pre>document.getElementById('test-table');</pre>	12,137,211
Dojo	dojo.byId('test-table');	5,443,343
Prototype JS	\$('test-table')	2,940,734
Ext JS	<pre>delete Ext.elCache['test-table']; Ext.get('test-table');</pre>	997,562
jQuery	<pre>\$jq('#test-table');</pre>	350,557
YUI	YAHOO.util.Dom.get('test-table');	326,534
MooTools	<pre>document.id('test-table');</pre>	78,802

Retrieve DOM elements by tag name

	Code	ops / sec
Vanilla JS	<pre>document.getElementsByTagName("span");</pre>	8,280,893
Prototype JS	Prototype.Selector.select('span', document);	62,872
YUI	YAHOO.util.Dom.getElementsBy(function(){return true;},'span');	48,545
Ext JS	Ext.query('span');	46,915
jQuery	\$jq('span');	19,449
Dojo	dojo.query('span');	10,335
MooTools	Slick.search(document, 'span', new Elements);	5,457

Code Examples

Here are some examples of common tasks in Vanilla 35 and other frameworks:

Fade an element out and then remove it

Make an AJAX call

```
var r = new XMLHttpRequest();
          r.open("POST", "path/to/api", true);
          r.onreadystatechange = function () {
Vanilla JS if (r.readyState != 4 || r.status != 200) return;
            alert("Success: " + r.responseText);
          };
          r.send("banana=yellow");
          <script src="//ajax.googleapis.com/ajax/libs/jquery/1/jquery.min.js"></script>
          <script>
          $.ajax({
            type: 'POST',
            url: "path/to/api",
 iQuery
            data: "banana=yellow",
            success: function (data)
             alert("Success: " + data);
          });
          </script>
```

Prática

 $\underline{https://github.com/contact2sale/trilhaDeDevs2020/tree/master/aula_02}$

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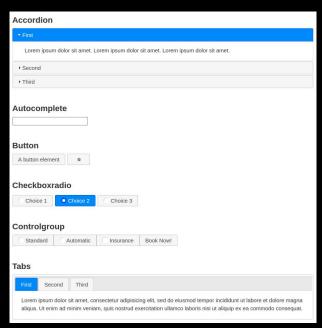
Aula 03 - DOM

Aula 03 - DOM

- Usando bibliotecas: Jquery, JqueryUI
- Manipulação de elementos usando Jquery (Show, Hide, Delete, Add, etc.)
- 3. Intereção com elementos (onClick, doubleClick, mouseOver, mouseOut, etc.)
- 4. Manipulando atributos (data, src, id, class, etc.)
- 5. Listeners
- 6. Animação
 - a. Mover elementos
 - b. Scroll
- 7. Drag and Drop (JqueryUI)
- 8. **Prática:** TODO

Jquery UI

https://jqueryui.com/themeroller/



Prática

https://github.com/contact2sale/trilhaDeDevs2020/tree/master/aula_03

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Aula 04 - BOM

Aula 04 - BOM

- 1. Window
- 2. Screen
- 3. Location
- 4. History
- 5. Navigator
- 6. Popup Alert
- 7. Timing
- 8. Cookies
- 9. **Prática:** Popup que afeta a janela pai

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

Prática

 $\underline{https://github.com/contact2sale/trilhaDeDevs2020/tree/master/aula_04}$

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Aula 05 - AJAX

Aula 05 - AJAX

- 1. Jquery https://jquery.com/
- 2. Axios https://github.com/axios/axios
- 3. Fetch https://developer.mozilla.org/pt-BR/docs/Web/API/Fetch_API/Using_Fetch
- 4. **Prática:** Consumir a API https://jsonplaceholder.typicode.com/
- 5. Json

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Aula 06 - AJAX

Aula 06 - AJAX

1. TODO com API/CRUD

Referências

- 1. https://developer.mozilla.org/pt-BR/docs/Web/API/Document
- 2. https://pt-br.reactjs.org/docs/faq-internals.html
- 3. https://pt.stackoverflow.com/questions/43169/qual-%C3%A9-a-diferen%C3%A7a-entre-dom-e-virtual-dom-
- 4. https://www.treinaweb.com.br/blog/o-que-e-dom-virtual-dom-e-shadow-dom/
- 5. https://www.w3schools.com/js/js_window.asp
- 6. https://www.todoespacoonline.com/w/2014/04/bom-em-javascript/
- 7. https://developer.mozilla.org/pt-BR/docs/Web/API/Fetch_API/Using_Fetch
- 8. https://api.jquery.com/
- 9. https://dev.to/jstarmx/how-the-browser-renders-a-web-page-lahc
- 10. https://developer.mozilla.org/en-US/docs/Web/Web_Components/Using_shadow_DOM
- 11. https://developers.google.com/web/fundamentals/web-components
- 12. https://medium.com/roliveiradev/por-que-getelementbyid-deve-ser-evitado-6b0d35d055fe

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Aula 07 - Prática