

**INSTITUTO FEDERAL**

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Câmpus São Carlos

## Introdução a Web

### Aula 7

## Novos elementos estruturais

Prof. Humberto Lidio Antonelli

`humberto.antonelli@ifsp.edu.br`

9 de abril de 2019



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# Sumário

- Novos elementos estruturais:
  - <header>
  - <nav>
  - <aside>
  - <footer>
  - <section>
  - <article>
  - <main>
  - <figure> e <figcaption>

# Curiosidade...

## <!DOCTYPE ...> em diferentes versões do HTML

- HTML 4.01 Strict

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"  
"http://www.w3.org/TR/html4/strict.dtd">
```

- HTML 4.01 Transitional

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

# Curiosidade...

## <!DOCTYPE ...> em diferentes versões do HTML

- HTML 4.01 Frameset

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN"  
"http://www.w3.org/TR/html4/frameset.dtd">
```

- XHTML 1.0 Strict

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

# Curiosidade...

## <!DOCTYPE ...> em diferentes versões do HTML

- XHTML 1.1

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"  
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
```

- HTML 5

```
<!DOCTYPE html>
```



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# Vamos ao que interessa...

No princípio surgiu a Internet.  
E a internet era sem forma e vazia;  
e havia trevas sobre a face do abismo...

Tim Bernes-Lee disse: "Faça a Web!"



# E a Web foi feita.



Tim Bernes-Lee desenvolveu a linguagem HTML, o protocolo de acesso de HTTP e o endereço URL.

Tim Bernes-Lee viu que a Web era boa.

Sobreveio a tarde e depois a manhã: foi o primeiro dia.



Tim Bernes-Lee disse: "Crie-se um padrão para a linguagem HTML".

E assim se fez. E a primeira versão padronizada chamou-se HTML 3.2.

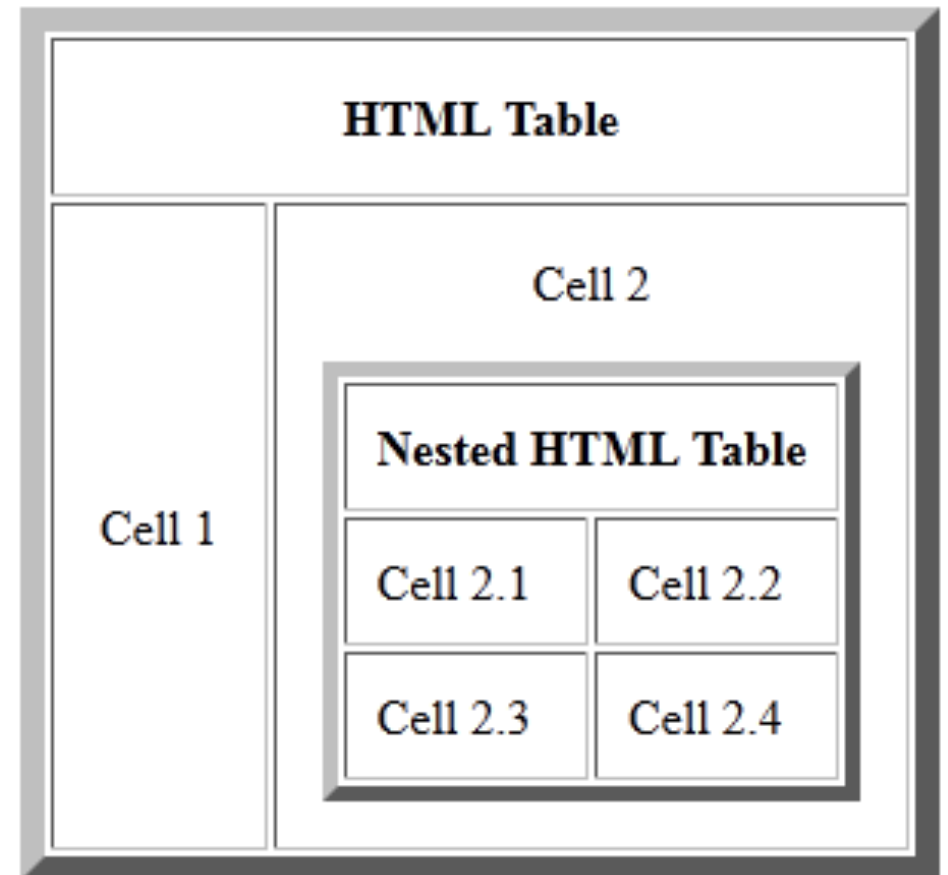
Sobreveio a tarde e depois a manhã: foi o segundo dia.



O layout das páginas começam a ser  
construídos com o uso de tabelas.

Sobreveio a tarde e depois a  
manhã: foi o terceiro dia.

Mas Tim Bernes-Lee viu que  
isso **NÃO** era bom...

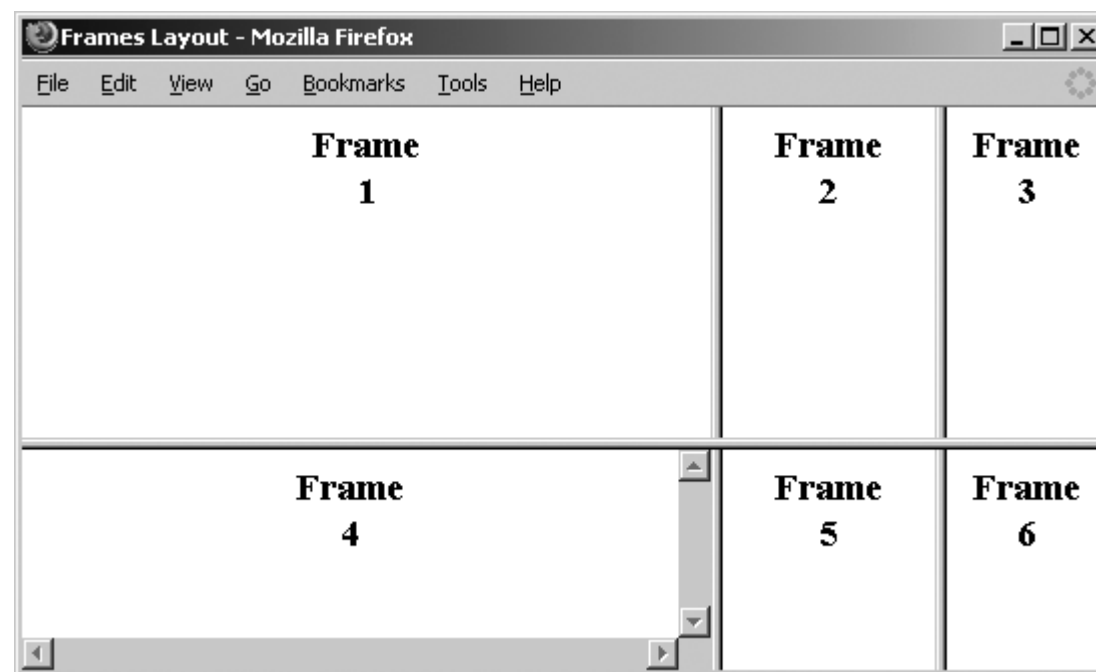




Tim Bernes-Lee disse: "Crie-se uma nova versão para linguagem HTML".

E assim se fez. Surge a versão 4 e o layout começa ser feito usando Frames.

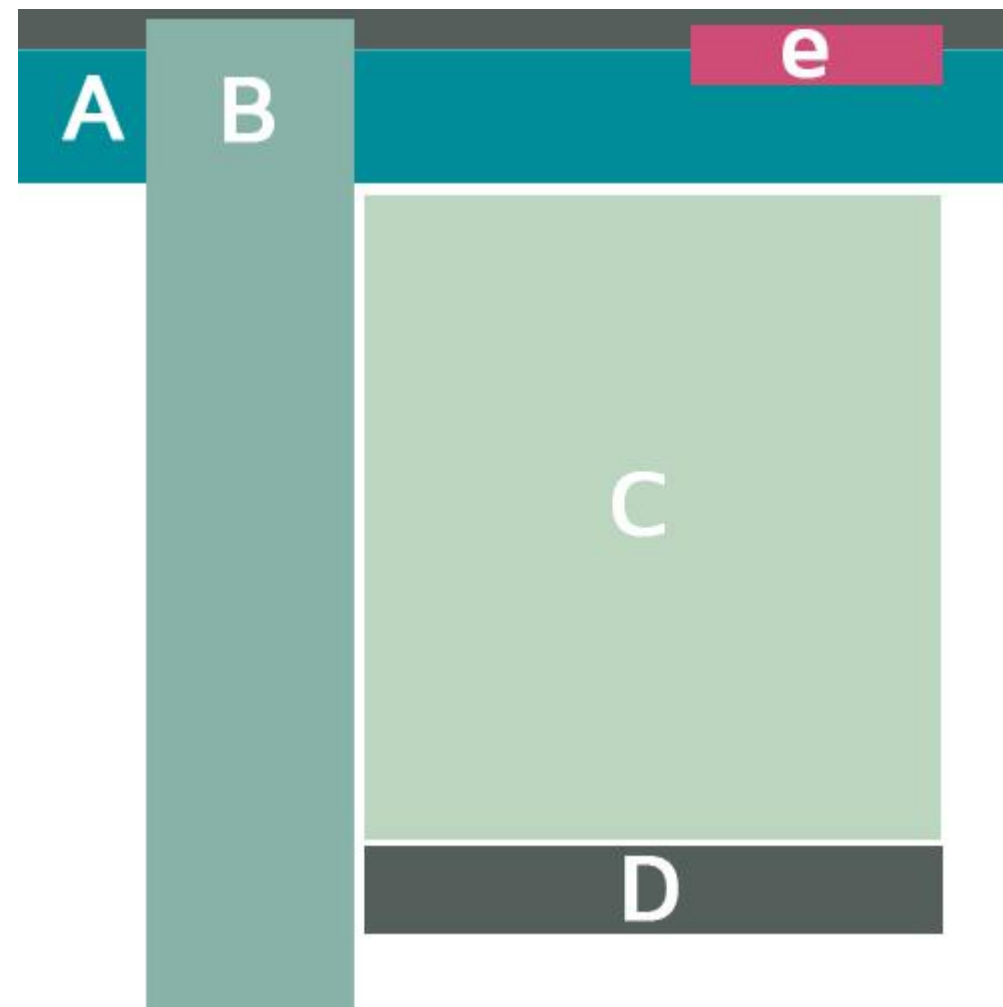
Sobreveio a tarde e depois a manhã: foi o quarto dia.



Mas Tim Bernes-Lee viu que isso ainda **NÃO**  
era bom..

E os desenvolvedores  
começam a utilizar **<div>**  
para definir a estrutura  
páginas.

Sobreveio a tarde e depois a  
manhã: foi o quinto dia.



Mas Tim Bernes-Lee viu que isso ainda podia melhorar...

Tim Bernes-Lee disse: "Crie-se elementos específicos para a estruturar o conteúdo das páginas Web".

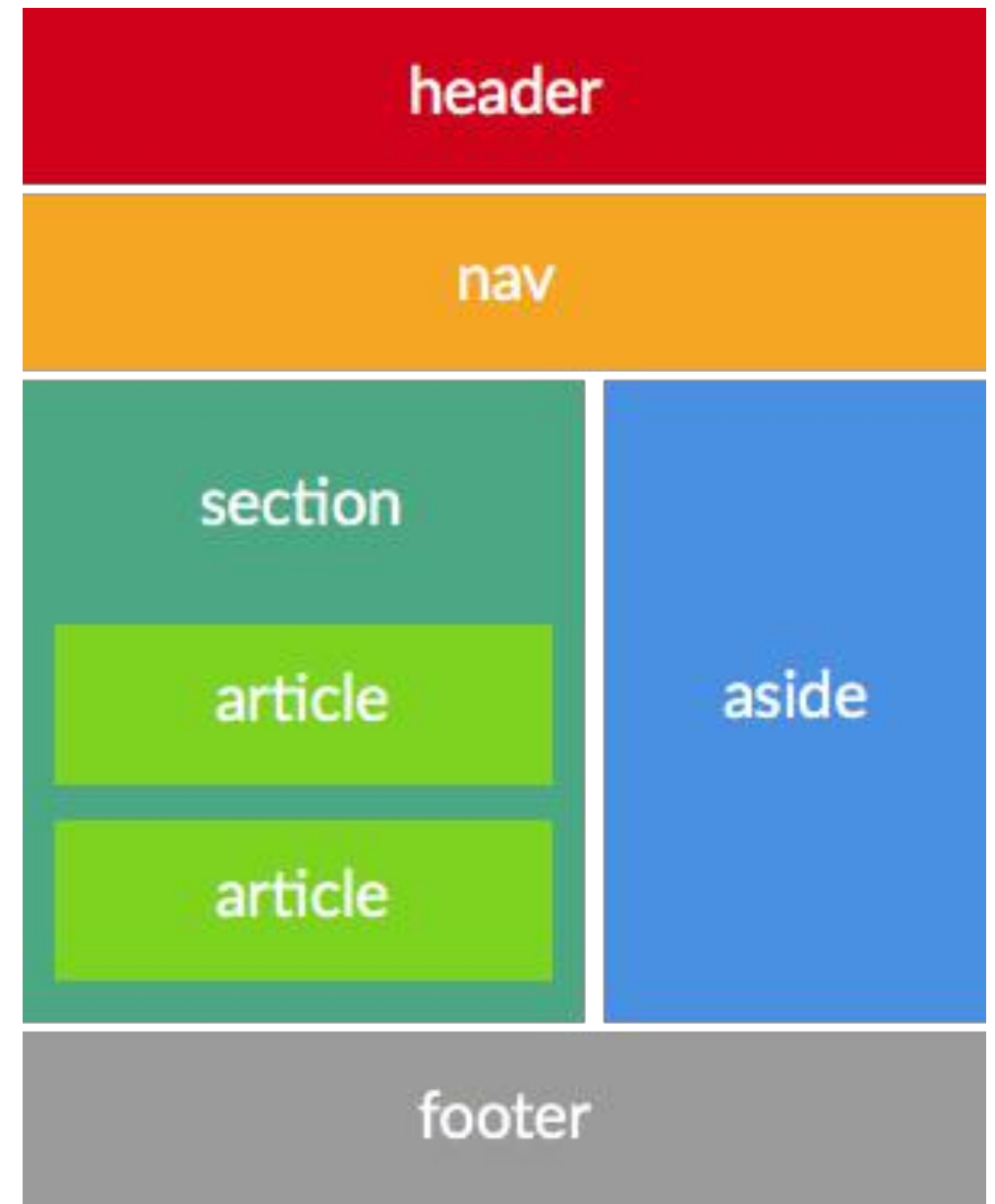
E assim se fez.

# HTML



Tim Bernes-Lee contemplou  
toda a sua obra, e viu que  
tudo era muito bom.

Sobreveio a tarde e depois a  
manhã: foi o sexto dia.





# Mas no sétimo dia ele não descansou.....



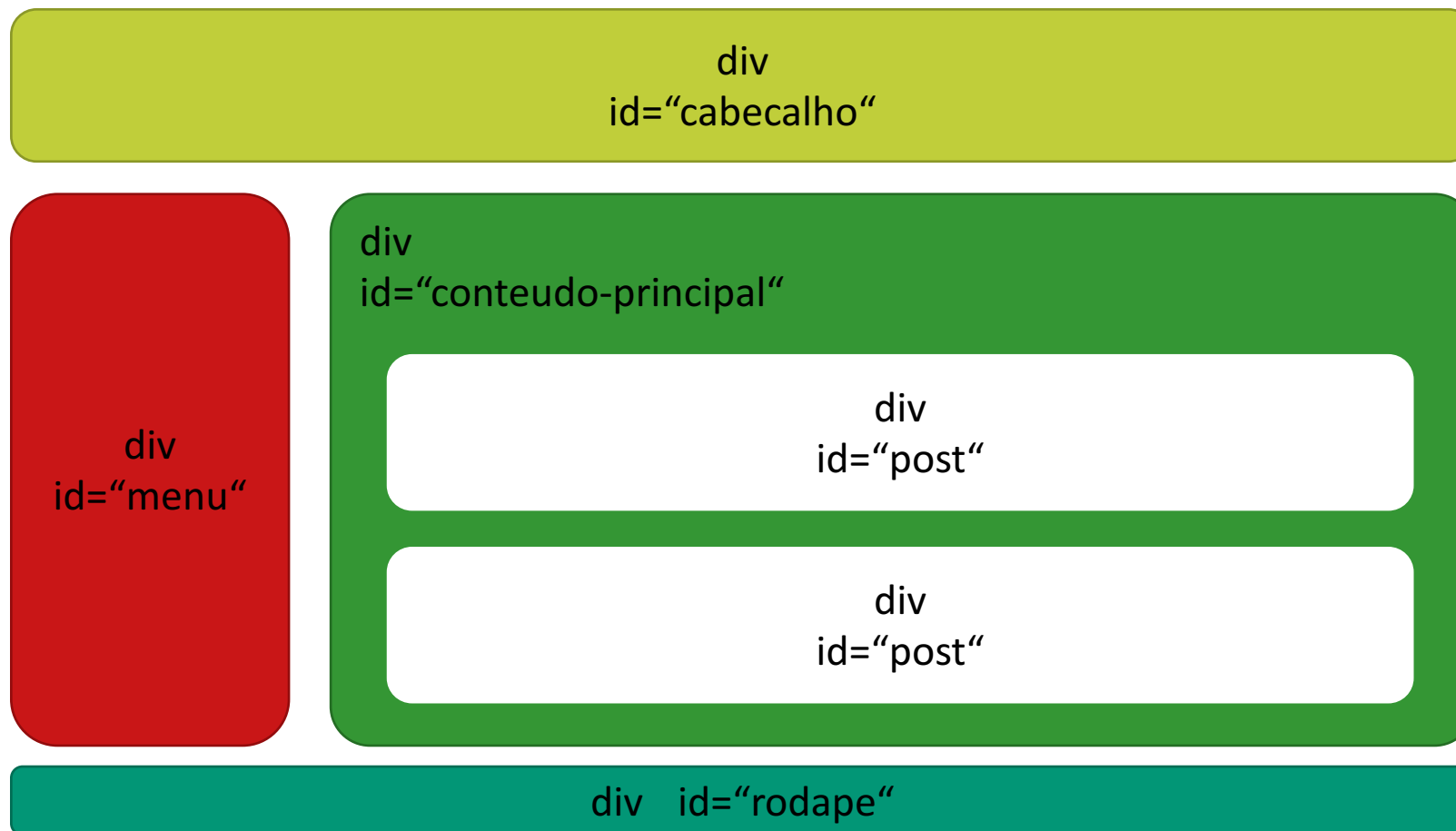
## ... E a Web contínua em constante evolução

# Agora vamos ao que interessa



# Elementos estruturais para organização do conteúdo

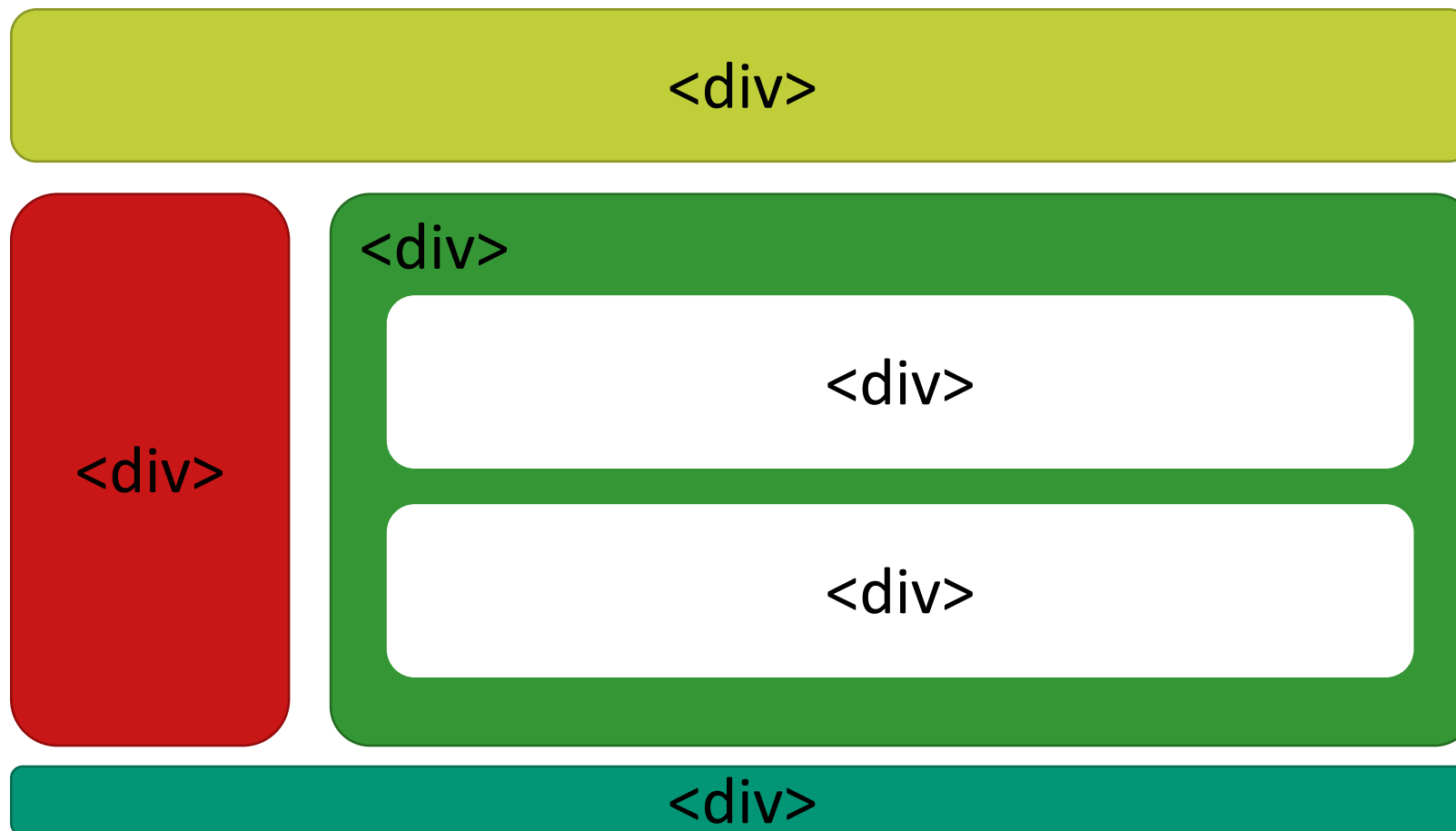
# Um pouco antes do HTML 5...



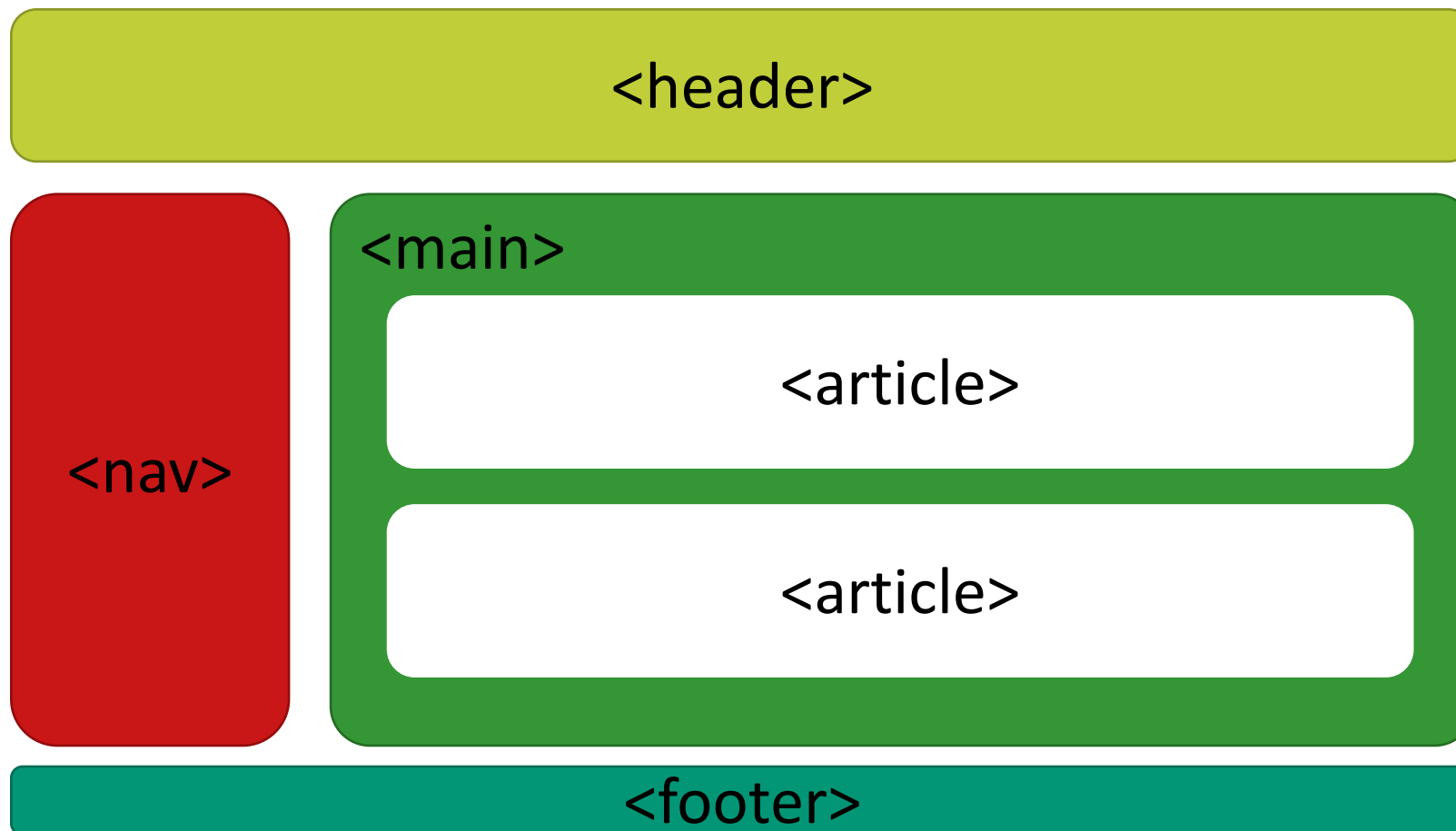
# Então, o que mudou no HTML 5?



# Antes do HTML 5...

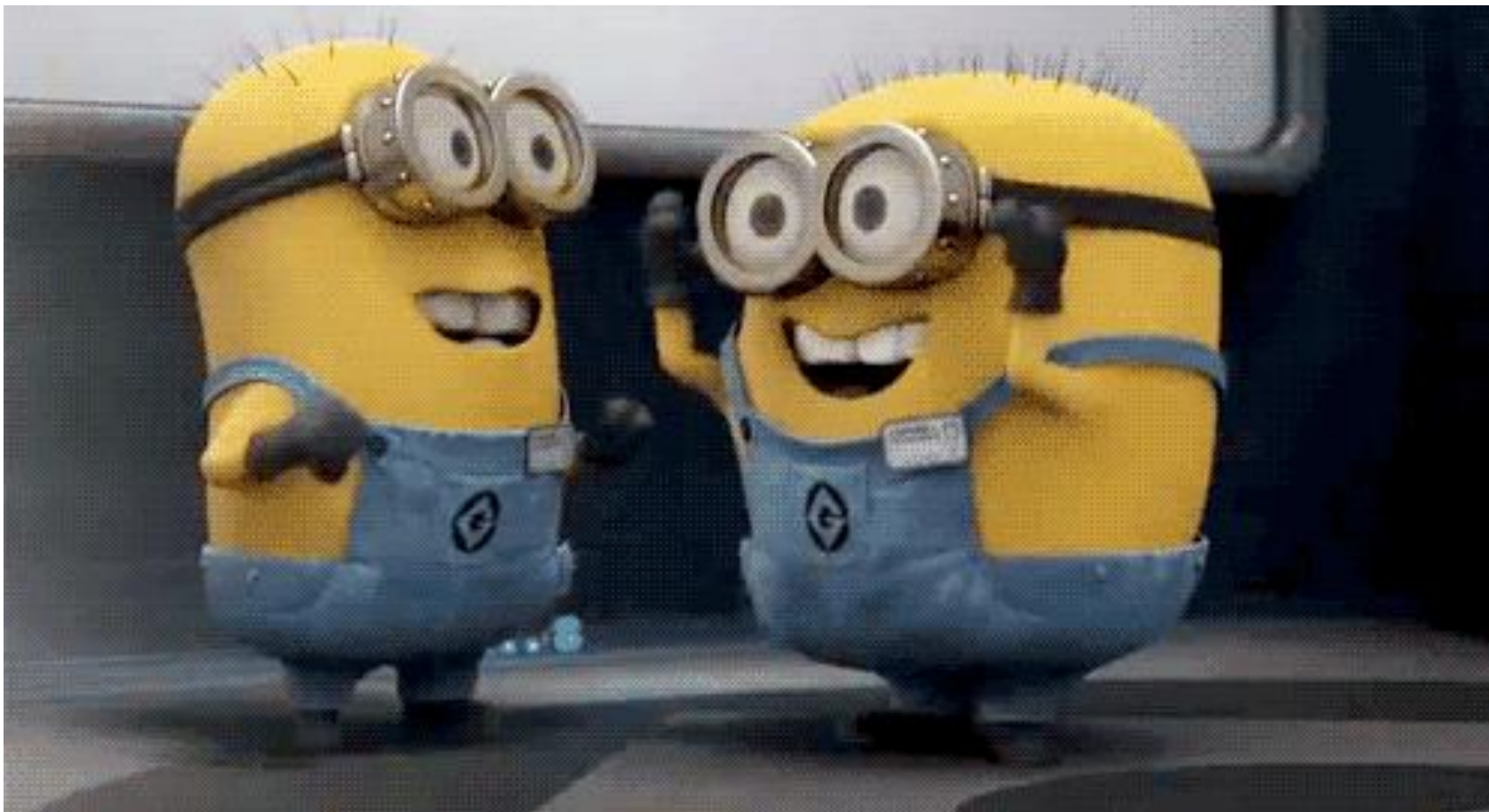


# Com o HTML 5...





# Lindo ne!!!

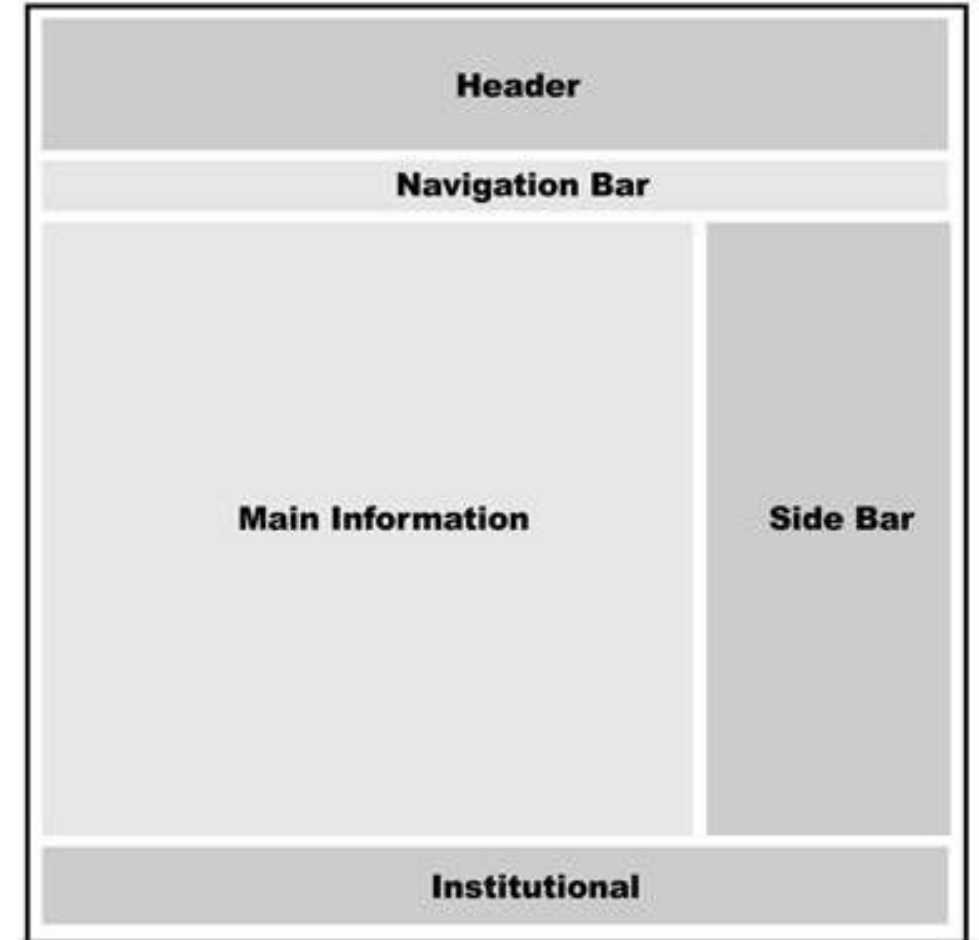




# Novas seções do HTML 5

O HTML5 fornece novos elementos para auxiliar na identificação e declaração de cada uma dessas estruturas:

<code>&lt;header&gt;</code>	<code>&lt;aside&gt;</code>
<code>&lt;nav&gt;</code>	<code>&lt;article&gt;</code>
<code>&lt;main&gt;</code>	<code>&lt;footer&gt;</code>
<code>&lt;section&gt;</code>	<code>...</code>



# Novas seções do HTML 5

## *<header>*

- Utilizado para fornecer informação introdutória (como títulos, subtítulos ou logos)
- A *tag* **<header>** NÃO deve ser confundida com a *tag* **<head>**
  - **<head>** é utilizada para definir informações sobre o documento HTML

```
<header>  
    <h1>Esse é o título do conteúdo da página</h1>  
</header>
```



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# The New York Times

Wednesday, October 4, 2017

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Video

70°F

World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate ALL

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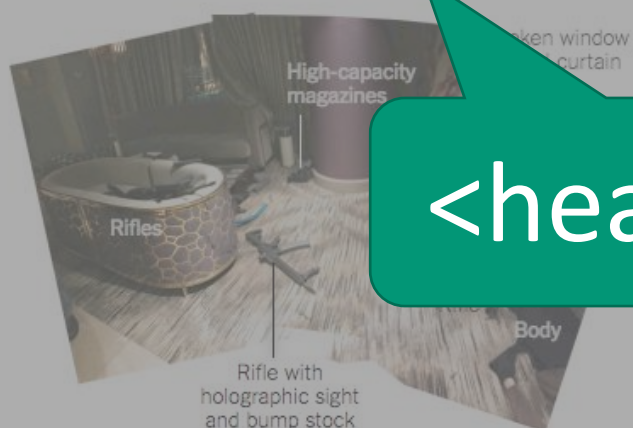
By SHERYL GAY STOLBERG and TIFFANY HSU 8:30 PM ET

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- The accessory, which can sell for as little as \$99.99, allows semiautomatics to mimic the firing capability of fully automatic weapons.

- **Live Updates** 53 minutes ago
- **What Is a Bump Stock and How Does It Work?**

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- **Why Tightening Casino Hotel Security Is So Hard** 5:40 PM ET
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By THE NEW YORK TIMES

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By ELLEN GABLER and CONOR DOUGHERTY 19 minutes ago

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- **Read Danley's Full Statement** 48 minutes ago

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What this tiny insect teaches us about sleep could yield breakthroughs if we continue to invest in basic research.



- **Bruni: God Bless America**
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**3m** Jill Bialosky, a prolific poet and a top editor at W. W. Norton & Company, **was accused of plagiarizing passages** in her new memoir from Wikipedia and poetry organizations.



**32m** Revelations that a New Zealand lawmaker had been a member of the Communist Party in China and **taught English to spies** there



# Novas seções do HTML 5

## `<nav>`

- A tag `<nav>` é utilizada para representar a seção que contém a barra de navegação
  - Links para outras partes do site
- Nem todos os links de um documento devem estar dentro de um elemento `<nav>`
  - É destinado apenas para grupos importantes de links de navegação
- Um documento pode ter vários elementos `<nav>`

# Novas seções do HTML 5

## *<nav>*

- Exemplo:

```
<nav>
  <ul>
    <li>Página Inicial</li>
    <li>Fotos</li>
    <li>Vídeos</li>
    <li>Contato</li>
  </ul>
</nav>
```





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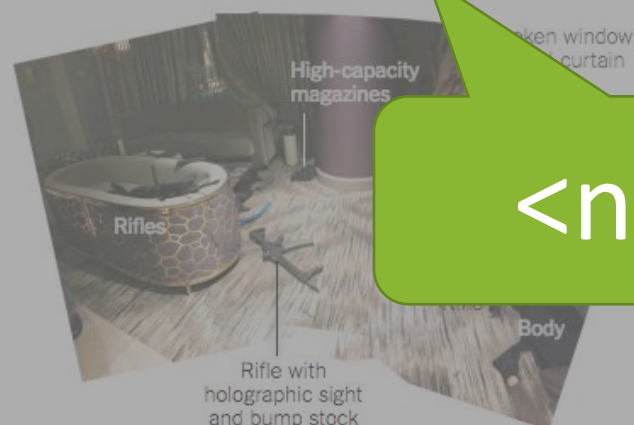
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# Novas seções do HTML 5

## *<aside>*

- Normalmente utilizado para estruturar o conteúdo que fica ao lado do conteúdo principal do documento
  - Artigos relacionados ao conteúdo principal, mas que não é relevante por si só
- Pode se localizar do lado esquerdo ou direito do conteúdo
  - A *tag* não possui uma posição pré-definida, ela apenas descreve a informação contida nela

```
<aside>  
  <blockquote>Citação relacionada ao primeiro artigo</blockquote>  
  <blockquote>Citação relacionada ao segundo artigo</blockquote>  
</aside>
```

# Novas seções do HTML 5

## *<footer>*

- Utilizado para representar a parte final da estrutura de um elemento HTML5
- O **<footer>** geralmente é utilizado para apresentar informações gerais sobre o autor ou empresa responsável pelo projeto, copyright, termos de uso, etc.

```
<footer>  
    Copyright&copy; 2014  
</footer>
```





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"Repatriation" of overseas profits will not create jobs but is a giveaway to corporate shareholders.

By DAVID J. HERZIG



Oct. 3, 2017

LETTERS

## What Does It Take to Tighten Gun Laws?

Readers are mostly skeptical that the latest tragedy will bring any change.



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# Novas seções do HTML 5

## *<section>*

- Utilizado para agrupar conteúdos relacionados a um mesmo tema
- Cada `<section>` deve ser identificado, geralmente, incluindo um cabeçalho (`<h1>` - `<h6>`)
- Se faz sentido distribuir separadamente o conteúdo de um elemento `<section>`, use um elemento `<article>` em seu lugar
- Não use como um container genérico; para isso que a `<div>` serve

```
<section>  
    <!-- praticamente qualquer coisa pode ir aqui ->  
</section>
```



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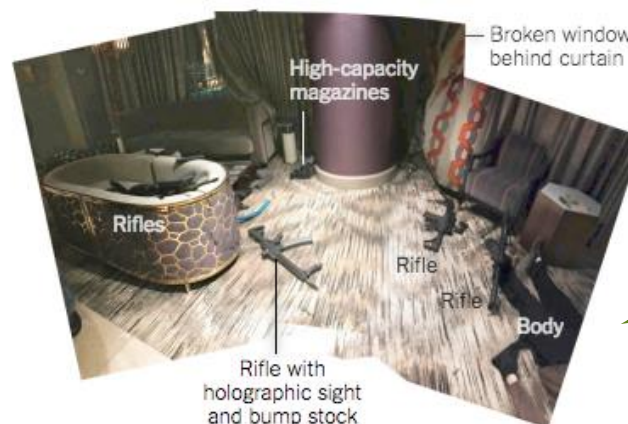
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### Opinion

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Here a career N.R.A. money

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<section>

From  
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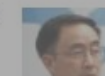
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Opinion | EDITORIAL

## On Guns, Nevada's Leaders Are Overruling Their Voters

By THE EDITORIAL BOARD OCT. 4, 2017



Celia Jacobs

Residents of Nevada voted in November to require background checks for most private gun sales, closing a loophole in federal law. But nearly a year after the ballot measure passed, these checks aren't being made because state officials have claimed, with little evidence, that there's no way to carry out the policy.

Such background checks might not have prevented the massacre in Las Vegas on Sunday night; the gunman, Stephen Paddock, is not known to

<article>

<section>

### RECENT COMMENTS

**Fred White** 24 minutes ago

When do politicians EVER do what the majority wants in America, on any level? They're hired to be hand puppets of their donor-owners, not...

**Richard Garner** 24 minutes ago

I would like to propose in Nevada (or similar places) that there should be a law banning the Devil (yes, the hypothetical and literary...

**Suzy Sandor** 24 minutes ago

Well looks like Democracy is working really well in G-d's Country.

[SEE ALL COMMENTS](#) [WRITE A COMMENT](#)

# Novas seções do HTML 5

## *<article>*

- Representa uma seção de conteúdo independente
- Quando os artigos se encontram dentro de outros artigos, os artigos internos devem estar relacionados com o artigo mais externo
- Exemplos:
  - Um post de um fórum
  - Um artigo de revista ou de jornal
  - Um comentário de um usuário

```
<article>  
    <!-- praticamente qualquer coisa pode ir aqui ->  
</article>
```



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Rifle  
Rifle  
Body

Rifle with holographic sight and bump stock

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# Novas seções do HTML 5

## `<section>` & `<article>`

Ao definir essa estrutura, podemos utilizar a versatilidade das *tags* `<header>` e `<footer>` apresentadas anteriormente

```
<section>
  <article>
    <header>
      <h2>Título do Post</h2>
    </header>
    <p>Conteúdo do post</p>
    <footer>
      <p>Comentários (0)</p>
    </footer>
  </article>
  <article>    ...    </article>
</ section>
```



# Novas seções do HTML 5

## *<main>*

- Define o conteúdo principal dentro da aplicação
  - relacionado diretamente com o tópico ou com a funcionalidade central da aplicação
- Embora possa existir mais de um, **apenas um único deles deve ser visível**
- Não deve ser incluídas seções da página que sejam comuns a todo o site
  - Ex.: mecanismos de navegação, informações de copyright, logotipo, etc...
- Não pode ser filho dos elementos <article>, <aside>, <footer>, <header>, ou <nav>.

```
<main>
    <!-- praticamente qualquer coisa pode ir aqui ->
</main>
```

# Novas seções do HTML 5

## *<figure> & <figcaption>*

- A *tag* **<figure>** identifica seu conteúdo como ilustrações, diagramas, fotos, listas de código, etc.
- A *tag* **<figcaption>** define uma legenda para um elemento **<figure>**

```
<figure>
    
    <figcaption>Fig 1. - The Pulpit Pock, Norway.</figcaption>
</figure>
```



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# Outros elementos semânticos

# Outros elementos semânticos

## *<address>*

- Fornece informações de contato
  - Geralmente utilizado dentro do elemento **<footer>**
  - Deve conter apenas informações relacionadas a contato
- As informações são referentes ao seu descendente mais próximo **<article>** ou **<body>**

```
<address>  
  IFSP Câmpus São Carlos<br />  
  Estrada Municipal Paulo Eduardo de Almeida Prado <br />  
  São Carlos - SP - CEP: 13.565-820  
</address>
```

# Outros elementos semânticos

## *<abbr>*

- Utilizado para demarcar uma abreviação e, opcionalmente, fornece uma descrição para ela
- A descrição deve ser incluída no atributo **title**

```
<p>Donald Trump é o presidente dos <abbr title="Estados Unidos da América">EUA</abbr>.</p>
```

# Outros elementos semânticos

## *<details>*

- Utilizado como uma ferramenta de onde o usuário irá obter informações adicionais
  - Geralmente é acompanhado de um único elemento **<summary>** seguido do conteúdo
  - Pode-se utilizar opcionalmente o atributo **open**

```
<details>  
  <summary>Alguns detalhes</summary>  
  <p>Mais informações sobre os detalhes.</p>  
</details>
```

# Outros elementos semânticos

## *<blockquote>*

- Indica que o texto incluído é uma citação longa
- A fonte da citação pode definida por meio do:
  - atributo **cite** com a URL para a fonte, ou;
  - elemento **<cite>** com o texto indicativo da fonte.

```
<blockquote cite="http://developer.mozilla.org">  
    <p>Esta é uma citação tirada da Mozilla.</p>  
</blockquote>
```

# Outros elementos semânticos

## <q>

- Indica que o texto incluído é uma citação curta
- Destina-se a citações curtas que não requerem marcações de parágrafo
- A fonte da citação pode ser definida por meio do atributo **cite** com a URL para a fonte ou mensagem para a informação citada

```
<p>De acordo com o website da Mozilla, <q  
cite="https://www.mozilla.org/en-  
US/about/history/details/">Firefox 1.0 foi lançado em 2004 e  
tornou-se um grande sucesso.</q></p>
```



# Dúvidas?



# Exercícios



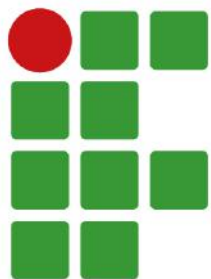
- Desenvolver em HTML5 uma página de notícia (protótipo) que contenha:
  - Logo e Nome do Página
  - Um menu de navegação
  - Uma Notícia – A notícia deve possuir:
    - Título
    - Texto
    - Comentários dos usuários
  - Conjunto de notícias relacionadas
  - Um rodapé

# Obrigado!

Prof. Humberto Lidio Antonelli

`humberto.antonelli@ifsp.edu.br`

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