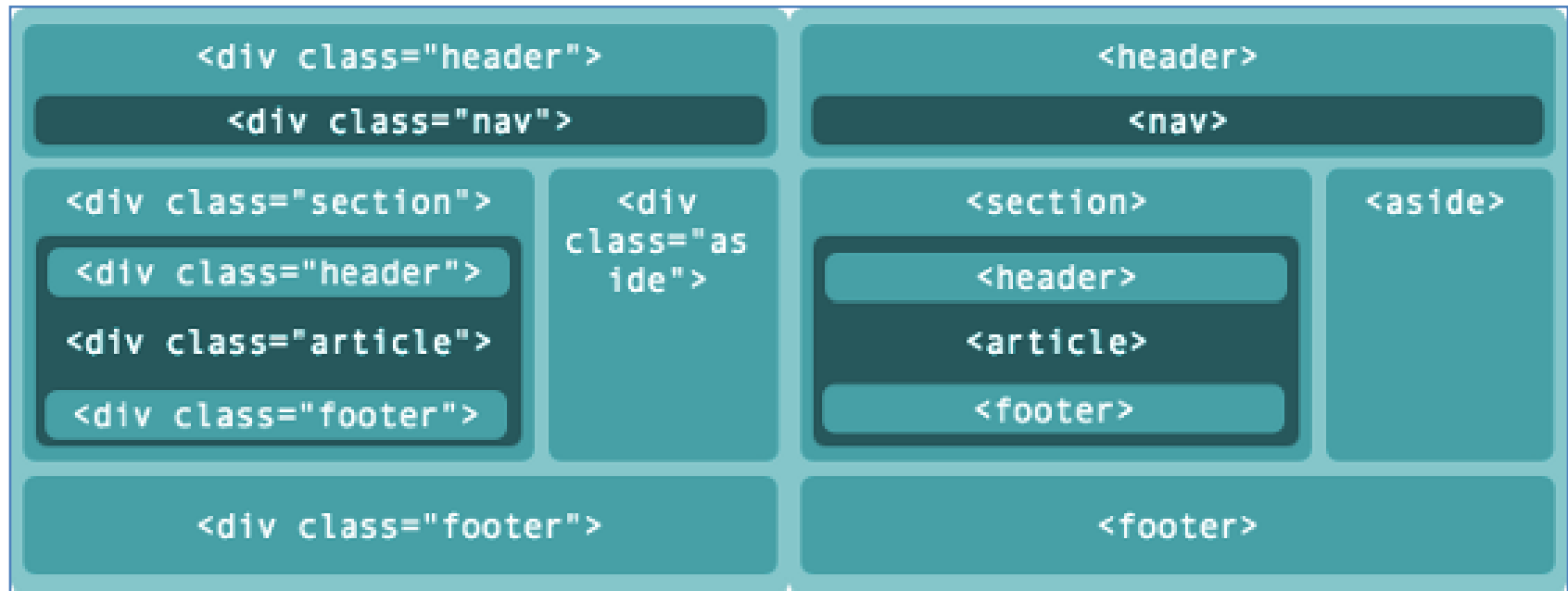
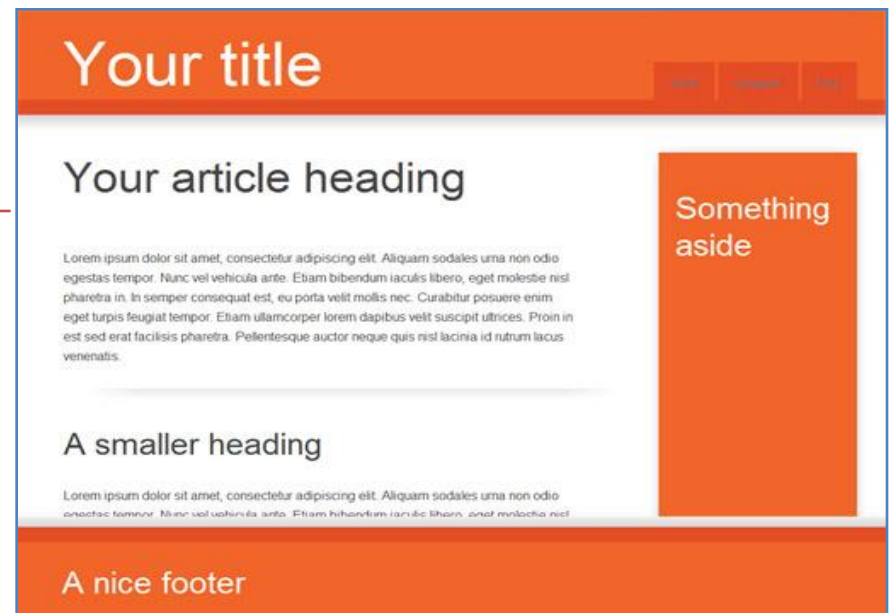




Desenvolvimento de Aplicações Web
HTML

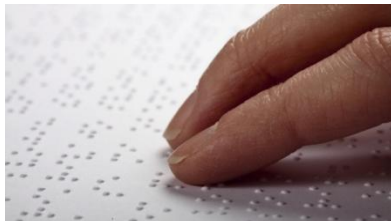
Profa. Joyce Miranda

► HTML semântico



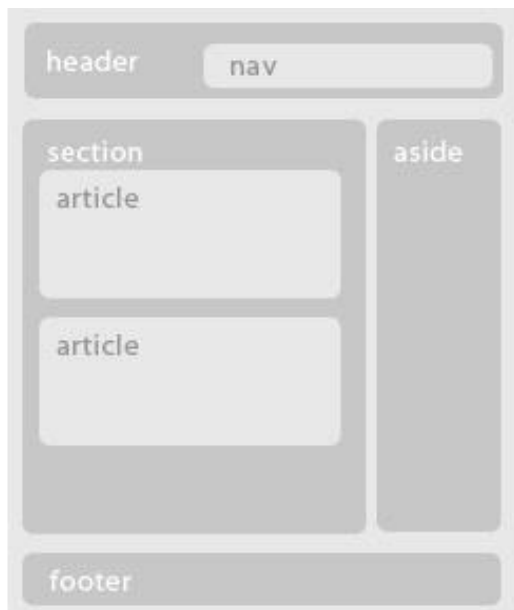
▶ HTML semântico

- ▶ Carrega significado independente da sua apresentação visual.
- ▶ Aplicação
 - Leitura de conteúdo para clientes não visuais
 - Deficiente Visuais e Robôs de Máquina de Busca



► HTML semântico

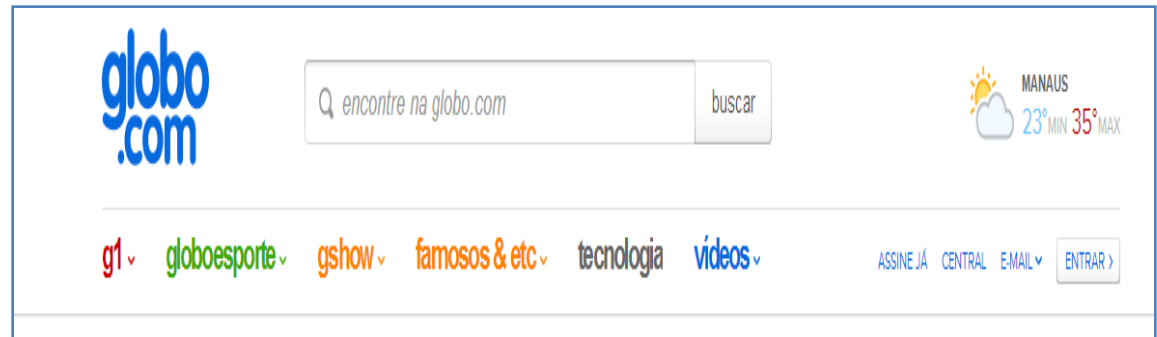
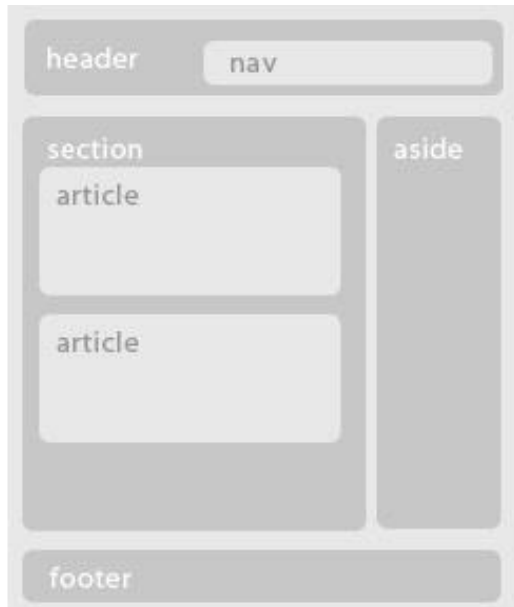
► <header>



<http://www.vagalume.com.br>

► HTML semântico

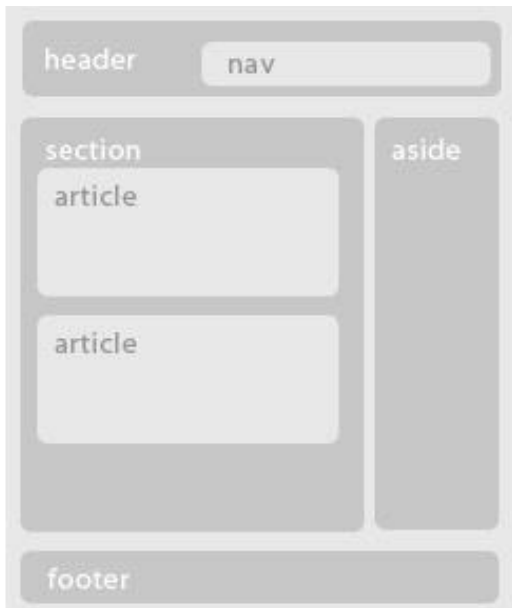
► <nav>



<http://www.globo.com.br>

► HTML semântico

► <article>



The screenshot shows the New York Times website with several news articles. The top navigation bar includes links for World, U.S., Politics, New York, Business, Opinion, Technology, Science, Health, Sports, Arts, Style, Dining, Home, and Travel.

Troops in Iraq Rout Sunni Militants From a Key Dam

By HELENE COOPER, MARK LANDLER and AZAM AHMED
9:05 PM ET


Kurdish and Iraqi forces took control of the main dam compound, but fighting continued at the site of a separate dam, officials said.

185 Comments

Ukraine Says Rebels Kill Dozens of Refugees

By ANDREW E. KRAMER, ANDREW HIGGINS and DAVID M. HERSZENHORN
8:50 PM ET

On Monday, Ukraine accused separatist fighters of firing on a caravan of cars carrying refugees, but rebel leaders denied there had been any attack.



People continued to protest in Ferguson, Mo. on Monday night, a week after Michael Brown, an unarmed black teenager, was killed by a police officer.

Charlie Riedel/Associated Press

Missouri Tries Another Idea: Call In Guard

By MONICA DAVEY, JOHN ELIGON and ALAN BLINDER
8:59 PM ET

In the days since a teenager was shot to death in Ferguson, Mo., an array of state and local law enforcement authorities have swerved from one approach to another.

Obama Urges Calm and Calls for Better Race Relations

By JULIE HIRSCHFELD DAVIS
9:24 PM ET

President Obama made clear that he was not issuing a blanket indictment of either the protesting crowds or the police.

RELATED COVERAGE

- National Guard Has a Long History With Civil Unrest
8:23 PM ET

It's Time to Overhaul Clemency

By THE EDITORIAL BOARD

The federal pardon policy needs to be more transparent and applied more frequently.

Young Souls, Dark Deeds

Should prosecutors be able to charge preteens as adults in cases of serious crime?

ROOM for DEBATE

NYT Opinion: the new Opinion

Today's Times Insider

Behind the scenes at The New York Times

- Follow the Tweets From Ferguson
- When Being 'Obsessed' With Hill

MARKETS »

At 12:51 AM ET

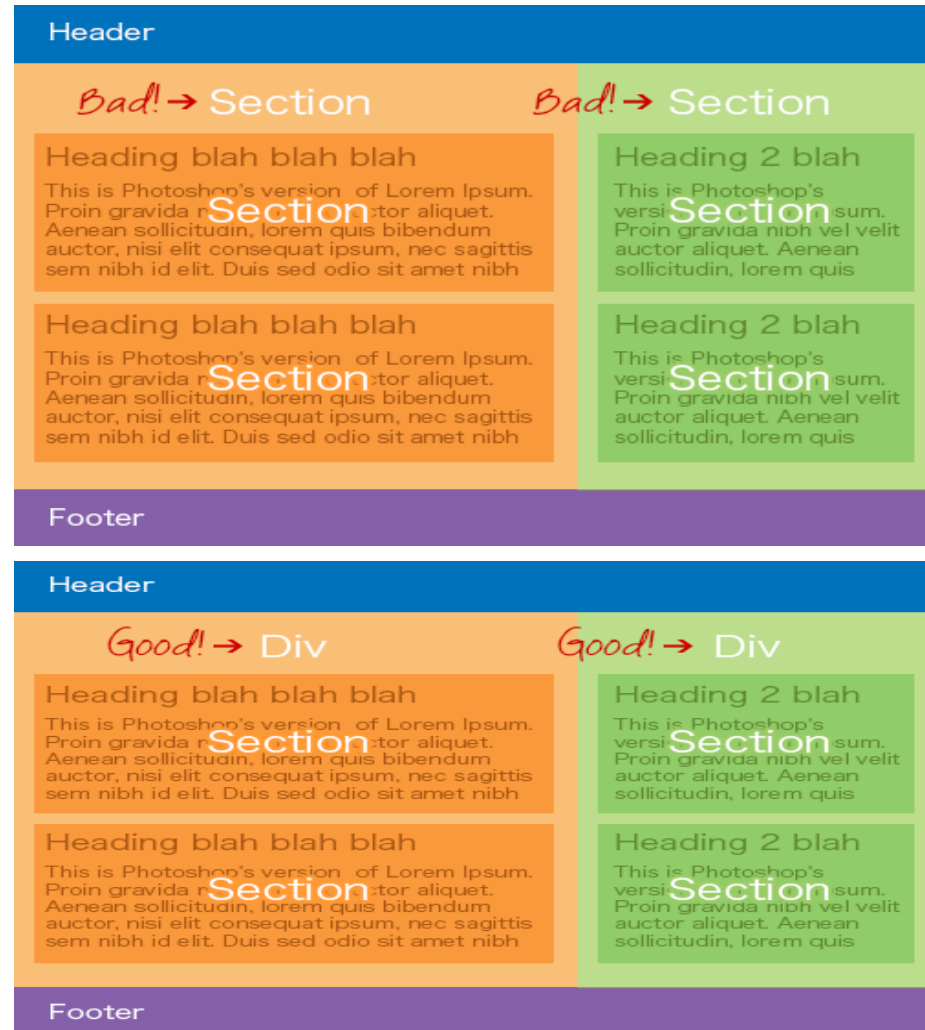
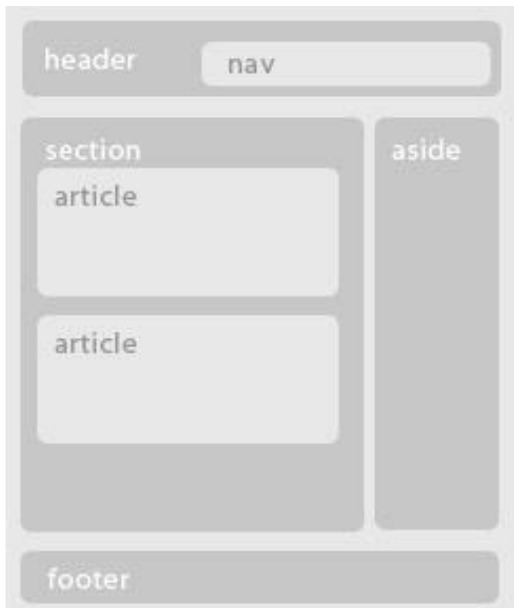
| Japan | China |
|-----------|----------|
| Nikkei | Shanghai |
| 15,456.20 | 2,234.61 |
| +133.60 | +22.20 |
| +0.87% | -4.85 |
| | -0.22% |

Get Quotes My Portfolios

<http://www.nytimes.com>

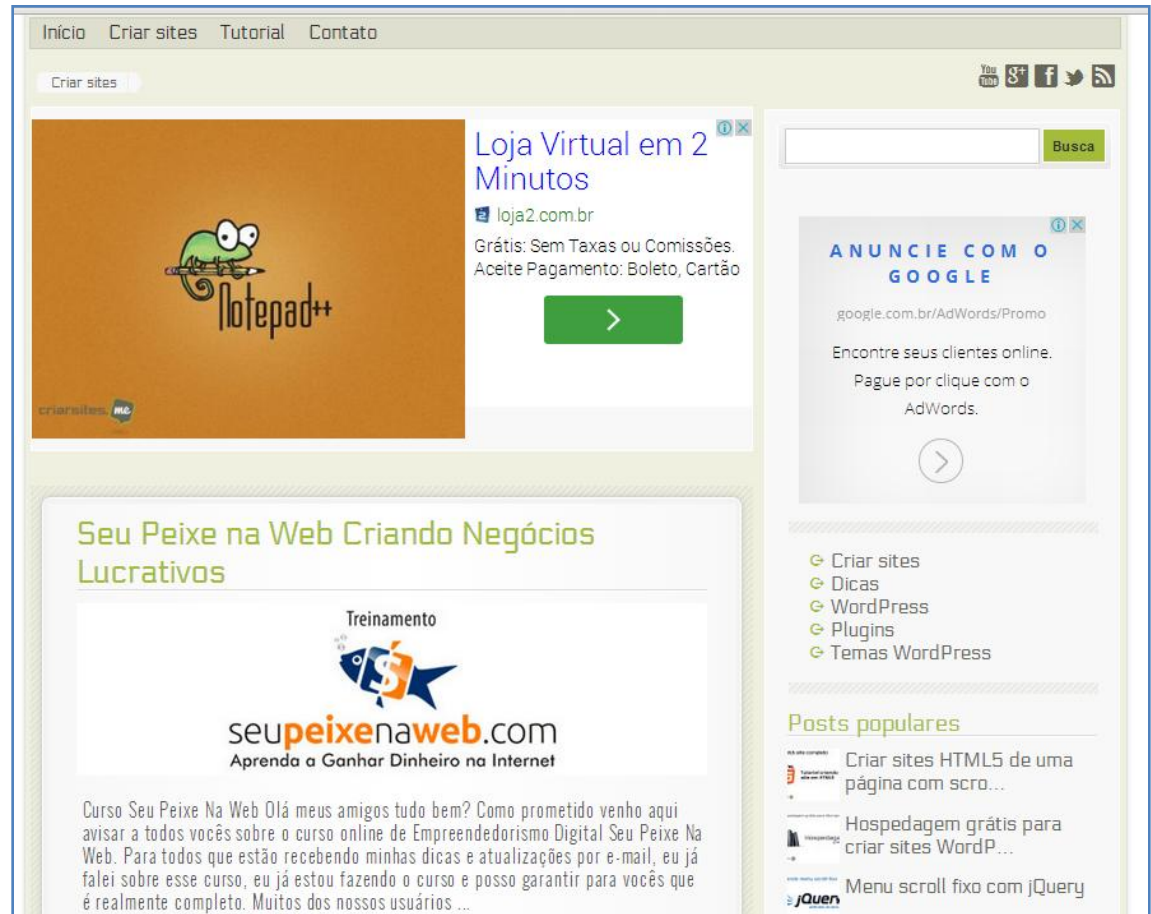
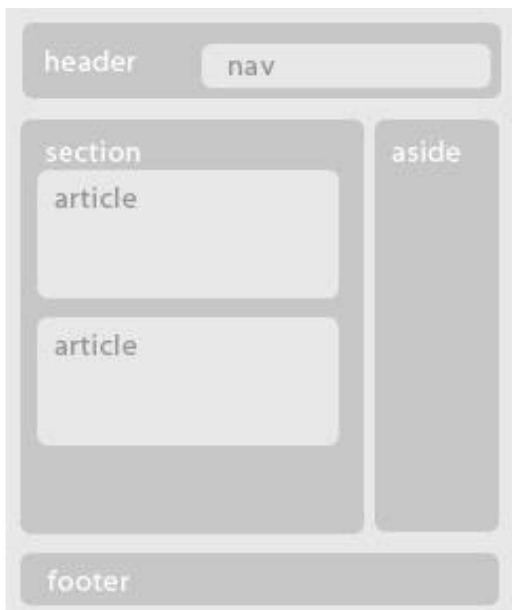
► HTML semântico

► <section>



► HTML semântico

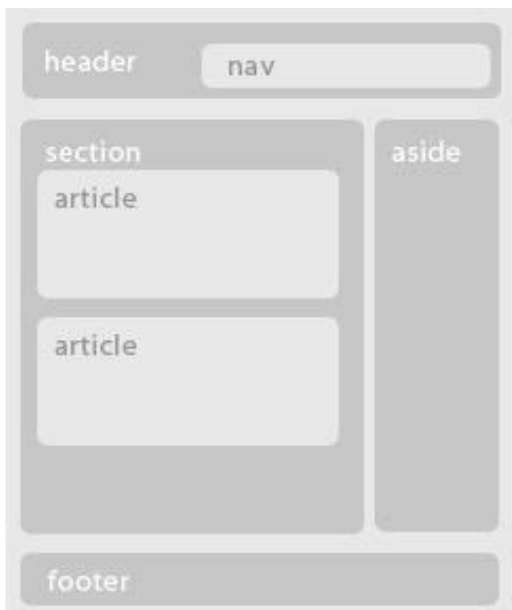
► <aside>



<http://www.criarsites.me/>

► HTML semântico

► <footer>



LOGO

[Item de Menu I](#) | [Item de Menu II](#) | [Item de Menu III](#)

Rodapé



```
<body >
```

```
  <header >
```

```
    <h1>LOGO</h1>
```

```
  </header>
```

```
  <nav >
```

```
    <a href="tabelas.html" target="aki">Item de Menu I</a> |
```

```
    <a href="http://www.ufam.edu.br" target="aki">Item de Menu II</a> |
```

```
    <a href="imagem.html" target="aki">Item de Menu III</a>
```

```
  </nav>
```

```
  <section>
```

```
    <iframe name="aki" ></iframe>
```

```
  </section>
```

```
  <footer>
```

```
    <h4>Rodapé</h4>
```

```
  </footer>
```

```
</body>
```

```
<head>...</head>
```

```
<style>
```

```
  body{ height:100%; margin:0 }
```

```
  header{ background-color:azure }
```

```
  h1{ text-align:center; margin:0 }
```

```
  h4{ text-align:center; margin:0; font-size:15px }
```

```
  nav{ background-color:lavender; text-align:right }
```

```
  section{ background-color:linen }
```

```
  iframe{ border:none; width:100%; height:350px }
```

```
  footer{ background-color: lavender;clear:both }
```

```
</style>
```

LOGO

- Item de Menu I
- Item de Menu II
- Item de Menu III

Rodapé



```

<body>
  <header>  <h1>LOGO</h1>  </header>

  <nav>
    <ul>
      <li><a href="tabelas.html" target="aki">Item de Menu I</a> </li>
      <li><a href="http://www.ufam.edu.br" target="aki">Item de Menu II</a> </li>
      <li><a href="imagem.html" target="aki">Item de Menu III</a> </li>
    </ul>
  </nav>
  <section >
    <iframe name="aki" ></iframe>
  </section>
  <footer>
    <h4>Rodapé</h4>
  </footer>
</body>

```

<head>...</head>

```

<style>
  body{ height:100%; margin:0 }
  header{ background-color:azure }
  h1{ text-align:center; margin:0 }
  h4{ text-align:center; margin:0; font-size:15px }
  nav{ background-color:seashell; width:25%; height:70%; float:left }
  section{ background-color:ivory; width:75%; height:70%; float:right }
  iframe{ border:none; width:100%; height:100% }
  footer{ background-color:lavender;clear:both }
</style>

```

LOGO

Links Interessantes

[Google](#)
[Wikipedia](#)
[Yahoo!](#)

Links Interessantes

[Google](#)
[Wikipedia](#)
[Yahoo!](#)

Rodapé

```

<body >
  <header > <h1 >LOGO</h1> </header>
  <section >
    fsdfkl sdf sdkfh sdkjf sdfhsdofkjsdof sidfhsfkjskdf sifkhsifhsif sifhs
    <aside style="">
      <h3>Links Interessantes </h3>
      <a href="http://www.google.com.br">Google</a> <br>
      <a href="http://www.wikipedia.com.br">Wikipedia</a> <br>
      <a href="http://www.yahoo.com.br">Yahoo!</a>
    </aside>
    fsdfkl sdf sdkfh sdkjf sdfhsdofkjsdof sidfhsfkjskdf sifkhsifhsif sifhs
  </section>
  <footer>
    <h4>Rodapé</h4>
  </footer>
</body>

```

```

<style>
  body{ height:100%; margin:0 }
  header{ background-color:azure }
  h1{ text-align:center; margin:0 }
  h4{ text-align:center; margin:0; font-size:15px }
  section{ background-color:ivory; text-align:justify }
  aside{ background-color:pink; float:right; height:30%; margin:10px; padding:5px }
  footer{ background-color:lavender;clear:both }
</style>

```

► HTML semântico




```
<body >
  <header> &nbsp;</header>
  <div>
    <section class="maisVendidos">
      <h1>Mais Vendidos</h1>
    </section>
    <section class="novidades">
      <h1>Novidades</h1>
    </section>
  </div>
  <footer> &nbsp;</footer>
</body>
```

```
body{ height:100%; margin:0 }
header{ background-color:azure }
div{ width:700px; text-align:center; margin:auto }
.maisVendidos{ background-color:skyblue;
               width:340px;height:300px;float:left;
               margin:20px 5px 20px auto } /*margin: top right bottom left*/
.novidades{ background-color:deeppink;
            width:340px;height:300px;float:right;
            margin:20px auto 20px auto } /*margin: top right bottom left */
```

► HTML semântico

Mais Vendidos



Produto x
Valor R\$



Produto y
Valor R\$

Novidades



Produto z
Valor R\$



Produto w
Valor R\$

```

<section class="maisVendidos">
  <h1>Mais Vendidos</h1>
  <table >
    <tr>
      <td> <figure>  </figure> </td>
      <td> <strong>Produto x</strong> <br> Valor R$ </td>
    </tr>
    <tr>
      <td> <figure>  </figure> </td>
      <td> <strong>Produto y</strong> <br> Valor R$ </td>
    </tr>
  </table>
</section>

```

Mais Vendidos



Produto x
Valor R\$



Produto y
Valor R\$



▶ FORMULÁRIOS

- ▶ Capturar os dados do usuário e submetê-lo a algum serviço de internet.

| Caixa de texto | Caixa de senha |
|--|---|
| Nome: <input type="text" value="Jonas"/> | Senha: <input type="password" value="....."/> |

| Checkboxes | Radio | Botões |
|--|--|---|
| Java <input checked="" type="checkbox"/> C# <input checked="" type="checkbox"/> PHP <input type="checkbox"/> | Manhã <input type="radio"/> Tarde <input checked="" type="radio"/> Noite <input type="radio"/> | <input type="button" value="ok"/> <input type="button" value="cancelar"/> |

▶ FORMULÁRIOS

▶ Sintaxe:

```
<FORM NAME="nome" ACTION="URL" METHOD="método" >  
  <!-- elementos do formulário -->  
</FORM>
```

▶ Onde:

- ▶ **NAME**: define o nome do formulário.
- ▶ **ACTION**: especifica o programa ou página que processará os dados;
- ▶ **METHOD**: Define o método utilizado pelo servidor para receber os dados do formulário.
 - ❑ **GET**: anexa o conteúdo do formulário ao endereço da URL, por isso tem limitação de tamanho das informações;
 - ❑ **POST**: método mais utilizado, as informações não aparecem na URL;

▶ FORMULÁRIOS

▶ Campo Texto

Nome:

```
<form action="processa.php" method="post">  
  <label for="nome_id" > Nome: </label>  
  <input id="nome_id" type="text" name="txtNome" >  
</form>
```

▶ FORMULÁRIOS

▶ Campo Texto – Size e Maxlength

Nome:

-
<input id="nome_id" type="text" name="txtNome" size="50" maxlength="100" >

▶ FORMULÁRIOS

▶ Botão - Submit

Nome:

```
<form action="processa.php" method="post">  
  <label for="nome_id" > Nome: </label>  
  <input id="nome_id" type="text" name="txtNome" >  
  <input type="submit" value="Enviar">  
</form>
```


▶ FORMULÁRIOS

▶ Botão – Image Submit

Nome:

enviar

```
<form action="processa.php" method="post">  
  <label for="nome_id" > Nome: </label>  
  <input id="nome_id" type="text" name="txtNome" >  
  <input type="image" src="img/enviar.png" width="40px" height="20px">  
</form>
```

▶ FORMULÁRIOS

▶ Botão – Reset

Nome:

```
<form action="processa.php" method="post">  
  <label for="nome_id" > Nome: </label>  
  <input id="nome_id" type="text" name="txtNome" >  
  <input type="submit" value="Enviar">  
  <input type="reset" value="Limpar">  
</form>
```

▶ FORMULÁRIOS

▶ Botão – Genérico



Calcular Idade

```
<input type="button" value="Calcular Idade">
```

▶ Botão – Sintaxe Alternativa

▶ type: submit;reset;button

```
<button type="submit" > Enviar </button>
```

HTML

▶ FORMULÁRIOS

▶ Campo Senha

Login: Senha:

```
<form action="processa.php" method="post">  
  <label for="login_id" > Login: </label>  
  <input id="login_id" type="text" name="txtLogin" >  
  <label for="senha_id" > Senha: </label>  
  <input id="senha_id" type="password" name="txtSenha" >  
  <input type="submit" value="Enviar">  
</form>
```

▶ FORMULÁRIOS

▶ Campo Arquivo

Selecionar arquivo...

Nenhum arquivo selecionado.

```
<input type="file" name="txtUpload" value="Upload">
```

▶ FORMULÁRIOS

▶ Campo Hidden

```
<input type="hidden" name="txtSessao" value="afcrtyersh">
```

▶ FORMULÁRIOS

▶ Campo TextArea

```
Termo de compromisso  
Assumo as responsabilidades que consistem em:  
(1) ....
```

```
<textarea rows="4" cols="50" >Termo de compromisso  
Assumo as responsabilidades que consistem em:  
(1) ....  
</textarea>
```

▶ FORMULÁRIOS

▶ Campo Radio

☒ Feminino ☐ Masculino

```
<input type="radio" name="rdSexo" value="F" id="fem">
```

```
<label for="fem" >Feminino</label>
```

```
<input type="radio" name="rdSexo" value="M" id="mas">
```

```
<label for="mas" >Masculino</label>
```


▶ FORMULÁRIOS

▶ Campo Checkbox

☐ C ☒ JAVA ☒ PHP

```
<input type="checkbox" name="ckInteresse[]" value="c" id="c" >
<label for="c" >C</label>
<input type="checkbox" name="ckInteresse[]" value="java" id="java" >
<label for="java" >JAVA</label>
<input type="checkbox" name="ckInteresse[]" value="php" id="php" >
<label for="php" >PHP</label> <br><br>
```

▶ FORMULÁRIOS

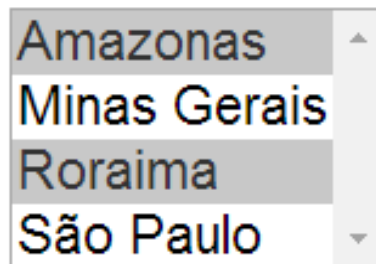
▶ Campo Select

| |
|-------------------|
| Mastercard ▼ |
| Visa |
| Mastercard |
| American Express |

```
<select name="bandeiraCartao" id="bandeira">  
  <option value="1">Visa</option>  
  <option value="2" selected>Mastercard</option>  
  <option value="3">American Express</option>  
</select>
```

▶ FORMULÁRIOS

▶ Campo Select - Multiple

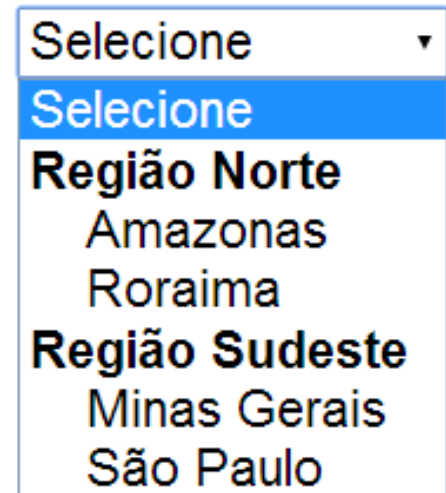


```
<select name="cidade" id="estado" multiple="multiple">  
  <option value="AM" selected>Amazonas</option>  
  <option value="MG">Minas Gerais</option>  
  <option value="RR" selected>Roraima</option>  
  <option value="SP">São Paulo</option>  
</select>
```

▶ FORMULÁRIOS

▶ Campo Select - OptGroup

```
<select name="cidade" id="estado" >  
  <option value="" >Selecione</option>  
  <optgroup label="Região Norte">  
    <option value="AM" >Amazonas</option>  
    <option value="RR" >Roraima</option>  
  </optgroup>  
  <optgroup label="Região Sudeste">  
    <option value="MG">Minas Gerais</option>  
    <option value="SP">São Paulo</option>  
  </optgroup>  
</select>
```



A screenshot of a web browser displaying a dropdown menu. The menu is open, showing a list of options. The first option is "Selecione" (highlighted in blue). Below it, the options are grouped into two sections: "Região Norte" and "Região Sudeste". Under "Região Norte", there are two options: "Amazonas" and "Roraima". Under "Região Sudeste", there are two options: "Minas Gerais" and "São Paulo".

| Selecione |
|----------------|
| Região Norte |
| Amazonas |
| Roraima |
| Região Sudeste |
| Minas Gerais |
| São Paulo |

▶ FORMULÁRIOS

- ▶ Campo Caixa de Sugestão – AutoComplete - DataList

Informe seu bairro:

Informe seu bairro:

▼
Chapada
Cidade Nova

▶ FORMULÁRIOS

- ▶ Campo Caixa de Sugestão – AutoComplete - DataList

```
<datalist id="listBairro">  
  <option value="Chapada">  
  <option value="Cidade Nova">  
  <option value="Nova Cidade">  
  <option value="Novo Israel">  
</datalist>
```

```
<label for="bairro_id">Informe seu bairro:</label>  
<input type="text" name="bairro" id="bairro_id" list="listBairro">
```

▶ FORMULÁRIOS

▶ FieldSet

Dados Pessoais

Nome:

Login:

Senha:

<fieldset>

<legend>Dados Pessoais</legend>

<label for="nome_id" > Nome: </label>

<input id="nome_id" type="text" name="txtNome" size="40" >

<label for="login_id" > Login: </label>

<input id="login_id" type="text" name="txtLogin" >

<label for="senha_id" > Senha: </label>

<input id="senha_id" type="password" name="txtSenha" >

</fieldset>

▶ FORMULÁRIOS

▶ Atributo: AutoFocus

- ▶ Input, Textarea, Select e Button

Nome:

```
<form action="processa.php" method="post">  
  <label for="nome_id" > Nome: </label>  
  <input id="nome_id" type="text" name="txtNome" autofocus >  
</form>
```


▶ FORMULÁRIOS

▶ Atributo: Disabled

- ▶ Input, Button, FieldSet

```
<input type="submit" value="Enviar" disabled>
```

Data de Nascimento: Idade:

```
<input id="idade_id" type="text" name="txtidade" size="3" disabled >
```

▶ FORMULÁRIOS

- ▶ Campo Texto – Placeholder
 - ▶ Input e TextArea

Nome:

```
<form action="processa.php" method="post">  
  <label for="nome_id" > Nome: </label>  
  <input id="nome_id" type="text" name="txtNome" placeholder="Digite seu nome aqui" >  
</form>
```

▶ FORMULÁRIOS

▶ Campo Texto – Placeholder

▶ Input e TextArea



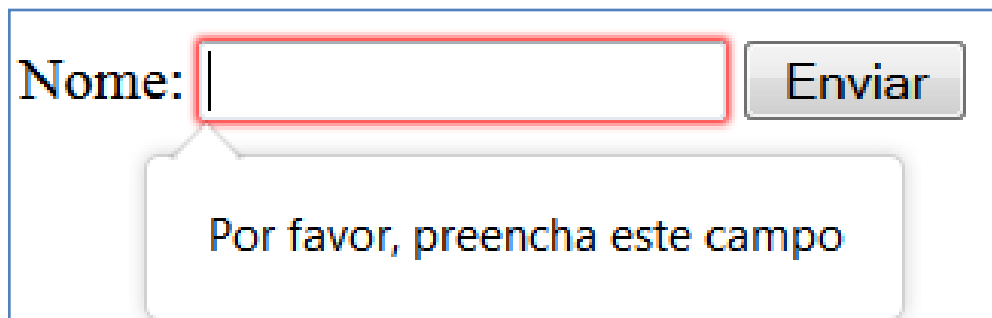
Deixe seu comentário...

```
<textarea rows="4" cols="50" placeholder="Deixe seu comentário..."> </textarea>
```

▶ FORMULÁRIOS

▶ Atributo: Required

- ▶ Input, Select, Textarea



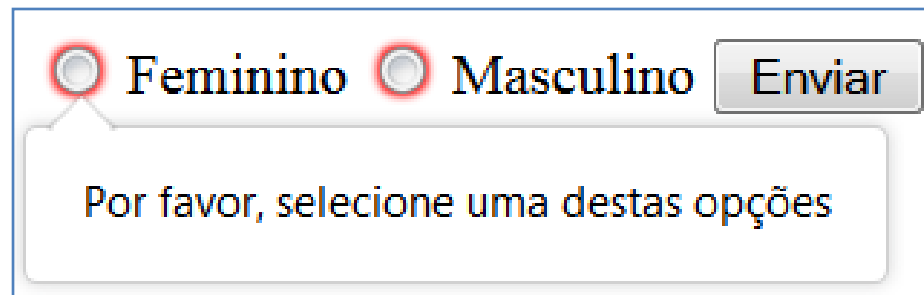
A screenshot of a web form. It features a label "Nome:" followed by a text input field. The input field has a red border, indicating it is required. To the right of the input field is a button labeled "Enviar". Below the input field, a tooltip message reads "Por favor, preencha este campo".

```
<form action="processa.php" method="post">  
  <label for="nome_id" > Nome: </label>  
  <input id="nome_id" type="text" name="txtNome" required >  
  <input type="submit" value="Enviar" >  
</form>
```

▶ FORMULÁRIOS

▶ Atributo: Required

- ▶ Input, Select, Textarea



A screenshot of a web form. It contains two radio buttons. The first radio button is selected and has a red circle around it, with a tooltip pointing to it that says "Por favor, selecione uma destas opções". The second radio button is unselected. To the right of the radio buttons is a button labeled "Enviar".

```
<form action="processa.php" method="post">  
  <input type="radio" name="rdSexo" value="F" id="fem" required>  
  <label for="fem" >Feminino</label>  
  <input type="radio" name="rdSexo" value="M" id="mas" required>  
  <label for="mas" >Masculino</label>  
  <input type="submit" value="Enviar" >  
</form>
```

▶ FORMULÁRIOS

▶ Atributo: Required

- ▶ Input, Select, Textarea

Selecione ▼

Enviar

Por favor, selecione um item da lista

```
<form action="processa.php" method="post">  
  <select name="bandeiraCartao" required>  
    <option value="">Selecione</option>  
    <option value="1">Visa</option>  
    <option value="2">Mastercard</option>  
    <option value="3">American Express</option>  
  </select>  
  <input type="submit" value="Enviar" >  
</form>
```

▶ FORMULÁRIOS

▶ Atributo: Pattern

- ▶ Permite definir expressões regulares de validação.

- ❑ <http://html5pattern.com>

- ❑ <http://turing.com.br/material/regex/introducao.html>

| | |
|---------------------------------------|---------------|
| Nome: | Fulano de Tal |
| CEP: | 00000-000 |
| Telefone: | 00 0000-0000 |
| Data: | dd/mm/yyyy |
| <input type="button" value="Enviar"/> | |

```
<form action="processa.php" method="post">
  <table>
    <tr><td> Nome: </td>
      <td><input type="text" name="txtNome" pattern="[a-zA-Z]*" autofocus
        placeholder="Fulano de Tal" title="Apenas Letras" required > </td></tr>
    <tr> <td> CEP: </td>
      <td><input type="text" name="txtCEP" pattern="[0-9]{5}-[0-9]{3}"
        placeholder="00000-000" title="00000-000" required > </td></tr>
    <tr><td> Telefone: </td>
      <td><input type="tel" name="txtTelefone" pattern="[0-9]{2} [0-9]{4,5}-[0-9]{4}"
        placeholder="00 0000-0000" title="00 0000-0000" required > </td></tr>
    <tr><td> Data: </td>
      <td><input type="text" name="txtData" pattern="(0[1-9]|1[0-9]|2[0-9]|3[01])/(0[1-9]|1[012])/[0-9]{4}"
        placeholder="dd/mm/yyyy" title="dd/mm/yyyy" required > </td>
    <tr>
      <td colspan="2"><input type="submit" value="Enviar" > </td> </tr>
  </table>
</form>
```


▶ FORMULÁRIOS

▶ Atributo: Pattern

| | |
|-----------|--------------|
| Nome: | Joyce Santos |
| CEP: | 12345 |
| Telefone: | |
| Data: | |
| Enviar | |

Por favor, satisfaça o formato requisitado:
00000-000

▶ FORMULÁRIOS

▶ TAGS SEMÂNTICAS

- ▶ Search
- ▶ Number/Range
- ▶ Color
- ▶ Date
- ▶ Email
- ▶ Tel
- ▶ URL

▶ FORMULÁRIOS

▶ Campo Search

- ▶ Coletar palavras chave que serão utilizadas em algum tipo de pesquisa.

Consulta:

Consulta:

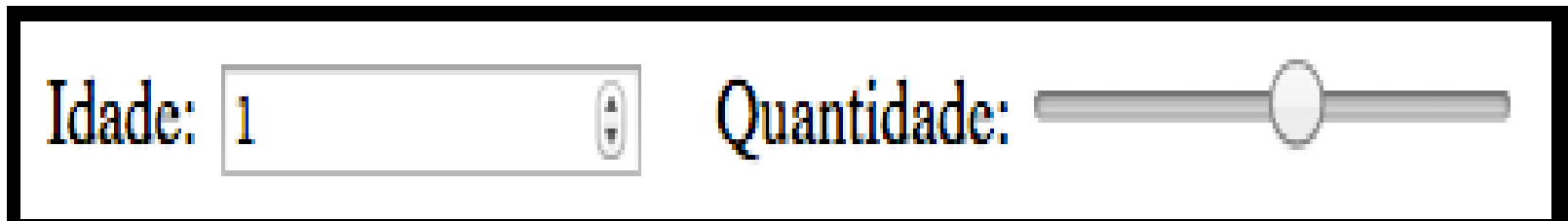
```
<label for="consulta_id" > Consulta: </label>
```

```
<input id="consulta_id" type="search" name="txtConsulta" placeholder="Digite sua busca">
```

▶ FORMULÁRIOS

▶ Campo Number/Range

- ▶ Coletar valores de sequências numéricas pré-definidas
- ▶ Definição da Sequência
 - MIN
 - MAX
 - STEP



The image shows a horizontal container with a black border. Inside, on the left, is the label 'Idade:' followed by a text input field containing the number '1'. To the right of the input field is a small vertical spinner control. Further right is the label 'Quantidade:' followed by a horizontal range slider with a circular knob in the middle.

▶ FORMULÁRIOS

▶ Campo Number

Informe o ano de nascimento:

```
<form action="processa.php" method="post">  
  <label for="idade_id" > Informe o ano de nascimento: </label>  
  <input id="idade_id" type="number" name="txtIdade" min="1900" max="2014" step="1">  
  <button type="submit" > Enviar </button>  
</form>
```

▶ FORMULÁRIOS

▶ Campo Number – Validação Automática

Informe o ano de nascimento:

Por favor, forneça um número

Informe o ano de nascimento:

Por favor, selecione um valor maior que 1900.

Informe o ano de nascimento:

Por favor, selecione um valor menor que 2014.

▶ FORMULÁRIOS

▶ Campo Range

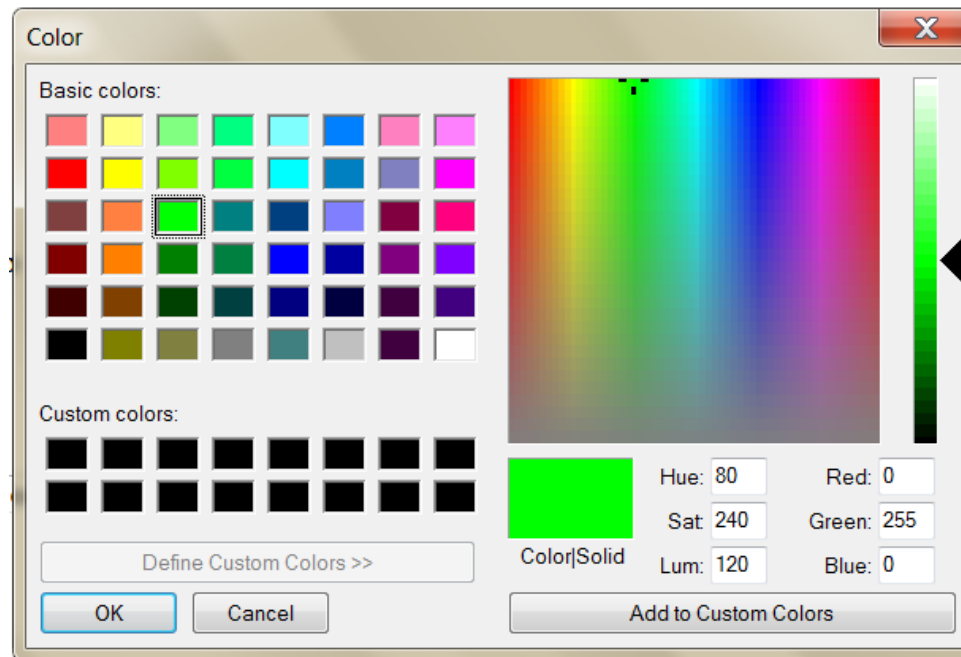
Defina seu grau de satisfação:

```
<form action="processa.php" method="post">  
  <label for="grau_id" >Defina seu grau de satisfação: </label>  
  <input id="grau_id" type="range" name="txtGrau" min="1" max="10" step="0.5" >  
  <input id="botao_id" type="submit" value="Enviar">  
</form>
```

▶ FORMULÁRIOS

▶ Campo Color

Escolha a cor:



▶ FORMULÁRIOS

▶ Data e Hora

▶ Type

- ❑ date: Coletar data (dia, mês e ano)



The image shows a date picker interface. At the top, there is a text input field containing the placeholder text "dd/mm/aaaa". Below this, a dropdown menu displays "agosto de 2014". To the right of the dropdown are three navigation buttons: a left arrow, a central dot, and a right arrow. Below these elements is a calendar grid with seven columns representing the days of the week: dom, seg, ter, qua, qui, sex, and sáb. The grid contains dates from the 27th of the previous month to the 6th of the next month. The date 31 is highlighted in the first column (dom).

| dom | seg | ter | qua | qui | sex | sáb |
|-----|-----|-----|-----|-----|-----|-----|
| 27 | 28 | 29 | 30 | 31 | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |

▶ FORMULÁRIOS

▶ Data e Hora

▶ Type

- ❑ `datetime-local`: Coletar data (dia, mês e ano) e hora (hora, minuto, segundo e fração de segundo)

dd/mm/aaaa 00:00

agosto de 2014

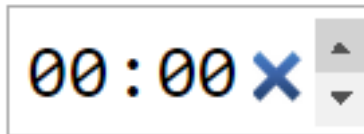
| dom | seg | ter | qua | qui | sex | sáb |
|-----|-----|-----|-----|-----|-----|-----|
| 27 | 28 | 29 | 30 | 31 | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |

▶ FORMULÁRIOS

▶ Data e Hora

▶ Type

- time: Coletar hora (hora, minuto, segundo e fração de segundo)

A screenshot of an HTML time input field. The field contains the text "00:00" in a blue font, followed by a blue "X" icon. To the right of the input field is a vertical spinner control with up and down arrows.

▶ FORMULÁRIOS

▶ TAGS SEMÂNTICAS

The image displays three side-by-side browser window screenshots, each showing a contact form at the URL 192.168.1.118/~keizo/html/pub. The form contains three input fields: 'E-mail:', 'Telefone:', and 'Site:', followed by an 'Enviar' button. The focus state of the form changes across the three screenshots: in the first, the 'E-mail' field is highlighted with an orange border; in the second, the 'Telefone' field is highlighted; and in the third, the 'Site' field is highlighted. Below each browser window is a virtual keyboard. The keyboard in the first two screenshots has a blue 'Ir' button, while the keyboard in the third screenshot has a blue 'Avançar' button.

▶ FORMULÁRIOS

- ▶ Campo Email
- ▶ Campo Tel
- ▶ Campo URL

Email:

Telefone:

Site Pessoal (URL):

```
<form action="processa.php" method="post">
  <table>
    <tr>
      <td><label for="email_id" > Email: </label> </td>
      <td><input id="email_id" type="email" name="txtEmail" > </td>
    </tr>
    <tr>
      <td><label for="tel_id" > Telefone: </label> </td>
      <td><input id="tel_id" type="tel" name="txtTelefone" > </td>
    </tr>
    <tr>
      <td><label for="site_id" > Site Pessoal (URL): </label> </td>
      <td><input id="site_id" type="url" name="txtSite" > </td>
    </tr>
    <tr>
      <td colspan="2"><input id="botao_id" type="submit" value="Enviar"> </td>
    </tr>
  </table>
</form>
```

▶ FORMULÁRIOS

▶ Campos Email, URL – Validação Automática

Email:

Telefone:

Site Pessoal (URL):

Por favor, forneça um endereço de email

Email:

Telefone:

Site Pessoal (URL):

Por favor, forneça um endereço da internet

▶ Exercício

| Formulário de Login | |
|---------------------------------------|--|
| *Email: | <input type="text" value="mds.joyce@gmail.com"/> |
| *Senha: | <input type="password" value="●●●●●●"/> |
| (*) campos obrigatórios | |
| <input type="button" value="Enviar"/> | |