

# HTML

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Hypertext Markup Language, ou HTML, é a linguagem utilizada pelo browser

HTML é uma linguagem de *markup* : contem código que descreve como a página web deve ser formatada.

# HTML Document Structure

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```
<html>
<head>
    . . . Information to browsers and search engines . . .

<style type="text/css">
    . . . Put here the document-level style . . .
</style>

</head>

<body>
    ... This is the content of the page. ...
</body>
</html>
```

# HTML Head (exemplo)

---

```
<head>
```

```
<title>título da página</title>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
```

```
<meta http-equiv="refresh" content="600">
```

```
<meta http-equiv="refresh" content="0;URL=http://w3.ualg.pt/~jvo/poo/">
```

```
<meta name="description" content="Special wind and weather forecasts!"/>
```

```
<meta name="keywords" content="wind forecast, windsurfing"/>
```

```
<link rel="stylesheet" href="style-sheet.css" type="text/css">
```

```
</head>
```

# HTML Body (exemplo)

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Code Example	Typical Rendering
<pre>&lt;p&gt; Hello &lt;b&gt;World!&lt;/b&gt; &lt;/p&gt; &lt;!-- isto é um comentário --&gt;</pre>	Hello <b>World!</b>

- HTML consists of tags, such as `<p>`, interspersed with plain text.
- The `<p>` tag begins a paragraph; `</p>` ends the paragraph.
- Similarly, `<b>` starts text emboldening and `</b>` ends it.

# Markup Lógico e Físico

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- **logical markup**, or *semantic tags*, specifies something about the *meaning* of what is being marked up; the browser is free to choose a rendering that is sensible for the user's hardware
- **Physical markup**, such as the bold (`<b>`) tag specifies how the browser is supposed to render text.

# Markup Lógico

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Tag	Code Example	Typical Rendering
Emphasis <em>	You can fly all day <em>in mid-air</em> .	You can fly all day <i>in mid-air</i> .
Strong <strong>	press relatively hard on <strong>both</strong> rudder pedals.	press relatively hard on <b>both</b> rudder pedals.
Code <code>	Alaska and Hawaii's airports are identified with a <code>PA</code> for "Pacific".	Alaska and Hawaii's airports are identified with a PA for "Pacific".
Headline Level 1 <h1>	<h1>Flight Plan</h1>	<b>Flight Plan</b>
Headline Level 2 <h2>	<h2>Flight Plan</h2>	<b><u>Flight Plan</u></b>

Headline Level 3 <h3>	<h3>Flight Plan</h3>	<b><u>Flight Plan</u></b>
Headline Level 4 <h4>	<h4>Flight Plan</h4>	<b>Flight Plan</b>
Headline Level 5 <h5>	<h5>Flight Plan</h5>	<b>Flight Plan</b>
Headline Level 6 <h6>	<h6>Flight Plan</h6>	<b>Flight Plan</b>

# Markup Físico

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Tag	Code Example	Typical Rendering
<b>Bold</b> <b>	Use the flight controls to keep the nose of the airplane at <b>a constant attitude</b> relative to the horizon.	Use the flight controls to keep the nose of the airplane at <b>a constant attitude</b> relative to the horizon.
<b>Italics</b> <i>	Have you read <i>Stick and Rudder</i>?	Have you read <i>Stick and Rudder</i> ?
<b>Underline</b> <u>	Flying in the clouds on a summer afternoon, you run the risk of entering an <u>embedded thunderstorm</u>.	Flying in the clouds on a summer afternoon, you run the risk of entering an <u>embedded thunderstorm</u> .
<b>Superscript</b> <sup>	Avogadro's number is approximately equal to 6.022 x 10<sup>23</sup>	Avogadro's number is approximately equal to 6.022 x 10 <sup>23</sup>



Subscript <sub>	log<sub>e</sub>x	log <sub>e</sub> x
Font Size <font size=...>	I want a <font size=+2>huge</font> house, a <font size=+1>big</font> dog, and a <font size=-1>small</font> waist.	I want a huge house, a big dog, and a <small>waist</small> .
Font Color <font color=...>	An airplane's navigation lights are <font color=green>green</font> on the right wing and <font color="#ff0000">red</font> on the left.	An airplane's navigation lights are <b>green</b> on the right wing and <b>red</b> on the left.
Font Face <font face=...>	The <font face="arial narrow, arial, helvetica">NASA Aviation Safety Program</font> is the only source of innovation.	The NASA Aviation Safety Program is the only source of innovation.

<b>Typewriter Text</b> <tt>	The terminal forecast called for winds <tt>02015G25KT</tt>, which means from the northeast at 15 knots, gusting to 25 knots.	The terminal forecast called for winds 02015G25KT, which means from the northeast at 15 knots, gusting to 25 knots.
<b>Preformatted Text</b> <pre>	Winds aloft for Buffalo, Boston, and Nantucket, at 3000, 6000, and 9000': <pre> 3000    6000    9000 BUF' 0517 0215+01 3306-01 BOS 2218 2325+08 2321+03 ACK 2118 2012+08 1917+03 </pre>	Winds aloft for Buffalo, Boston, and Nantucket, at 3000, 6000, and 9000': <pre> 3000    6000 9000 BUF' 0517 0215+01 3306-01 BOS 2218 2325+08 2321+03 ACK 2118 2012+08 1917+03 </pre>

## Blockquote

<blockquote>

Aviation safety quote:

<blockquote>

All life is the management  
of  
risk, not its elimination.

<br>

&mdash; Walter Wriston,  
former Chairman of Citibank

</blockquote>

Aviation safety quote:

All life is the management of  
risk, not its elimination.

— Walter Wriston, former  
Chairman of Citibank

# Tag Atributos

---

## core

class=name

id=name

## específicos

```
<body class=name id=name background=url bgcolor=color link=color  
vlink=color text=color >
```

```
<font color=color face=list size=value>
```

```
<p align=left,center,right>
```

```
<div align= left,center,right,justify>
```

# Hyperlinks (1)

- **Hyperlinks**, often just called *links*, allow the user to jump to a new page or a new location within the same page.

- **Links absolutos**

```
<a href="http://aviationweather.gov/">aviation weather  
site</a>
```

```
<a
```

```
href="http://groups.google.com/groups?hl=fr&group=rec.aviat  
ion.student">rec.aviation.student newsgroup</a>
```

- **Links relativos**

```
<a href="glossary.txt">Glossary</a>
```

```
<a href="docs/glossary.txt">Glossary</a>
```

links relativo ao directório onde está o ficheiro html

```
<a href="/docs/glossary.txt">Glossary </a>~
```

link relativo ao directório de raiz (DocumentRoot) no servidor

# Hyperlinks (2)

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- **Links relativos à mesma página web ou dentro de uma página web**

Primeiro tem que se criar um tag name ou tag id algures no texto:

```
<a name="DNS">DNS</a>  
<a id="DNS">DNS</a> (melhor)
```

Agora podemos criar o link:

```
see the <a href="#DNS">DNS</a> (mesma página web)
```

```
see the <a href="glossary.html#DNS">DNS</a> (outra  
página web)
```

- **Javascript hyperlinks**

```
<a href="javascript:alert('Error!')">
```

# Breaks

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Tag	Code Example	Typical Rendering
Paragraph <p>	<pre>&lt;p&gt; "I'll be seeing you," he said. &lt;/p&gt; &lt;p&gt; Then he walked away. &lt;/p&gt;</pre>	<p>"I'll be seeing you," he said.</p> <p>Then he walked away.</p>
Line Break  	<pre>Carson's Plumbing&lt;br&gt; 123 Main St.&lt;br&gt; Seattle, WA 98101</pre>	<p>Carson's Plumbing 123 Main St. Seattle, WA 98101</p>
Horizontal Rule <hr>	<pre>And they lived happily ever after. &lt;hr&gt; The End</pre>	<p>And they lived happily ever after.</p> <hr/> <p>The End</p>

# Listas

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Tag	Code Example	Typical Rendering
<b>Ordered List</b> <code>&lt;ol&gt;</code>	<p>Alaska summer survival gear:</p> <pre>&lt;ol&gt; &lt;li&gt;rations for each occupant &lt;li&gt;one axe or hatchet &lt;li&gt;one first aid kit &lt;/ol&gt;</pre> <p>Common training airplanes:</p> <pre>&lt;ol type=A&gt; &lt;li&gt;Cessna 172 &lt;li&gt;Diamond DA20 &lt;li&gt;Piper Tomahawk &lt;/ol&gt;</pre>	<p>Alaska summer survival gear:</p> <ol style="list-style-type: none"><li>1. rations for each occupant</li><li>2. one axe or hatchet</li><li>3. one first aid kit</li></ol> <p>Common training airplanes:</p> <ol style="list-style-type: none"><li>A. Cessna 172</li><li>B. Diamond DA20</li><li>C. Piper Tomahawk</li></ol>



Class B VFR Weather Minimums:  
<ol type=i>  
<li>3 statute miles visibility  
<li>clear of clouds  
</ol>

Class B VFR Weather Minimums:  
i. 3 statute miles visibility  
ii. clear of clouds

**Unordered List**  
<ul>

Checklist for Mexican Flying:  
<ul>  
<li>proof of airplane ownership  
<li>proof of liability insurance  
<li>pilot's license and medical  
<li>seldom asked-for documents:  
<ul>

Checklist for Mexican Flying:  
• proof of airplane ownership  
• proof of liability insurance  
• pilot's license and medical  
• seldom asked-for documents:  
◦ radio station license  
◦ radio operator's license  
• border-crossing flight plan

	<pre>       &lt;li&gt;radio station license       &lt;li&gt;radio operator's license     &lt;/ul&gt; &lt;li&gt;border-crossing flight plan &lt;/ul&gt; </pre>	
<p><b>Definition List</b> <b>&lt;d1&gt;</b></p>	<pre> &lt;d1&gt; &lt;dt&gt;IFR &lt;dd&gt;Instrument Flight Rules &lt;dt&gt;VFR &lt;dd&gt;Visual Flight Rules &lt;dt&gt;VOR &lt;dd&gt;Very High Frequency Omni Ranging radio navigation beacon &lt;/d1&gt; </pre>	<pre> IFR Instrument Flight Rules VFR Visual Flight Rules VOR Very High Frequency Omni Ranging radio navigation beacon </pre>

# Imagens

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```

```

```
<a href="myCV.htm">  </a>
```

```
<a href="full_image.jpg">  </a>
```

Attribute	Code Example
Dimensions width/ height	<pre>&lt;img width=100 height=100 src="http://www.eveandersson.com/alex.jpg"&gt;</pre>
Border border	<pre>&lt;img width=100 height=100 border=2 src="http://www.eveandersson.com/alex.jpg"&gt;</pre>
Alignment align	<pre>&lt;img align=right width=100 height=100 src="http://www.eveandersson.com/alex.jpg"&gt;</pre>

Alignment align	<pre>&lt;img align=left width=100 height=100 src="http://www.eveandersson.com/alex.jpg"&gt; Canine-American</pre>
Horizontal Space (on both sides) hspace	<pre>&lt;img hspace=10 align=left width=100 height=100 src="http://www.eveandersson.com/alex.jpg"&gt;</pre>
Vertical Space (top and bottom) vspace	<pre>&lt;img vspace=10 width=100 height=100 src="http://www.eveandersson.com/alex.jpg"&gt;</pre>

# Tabelas

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<code>&lt;table&gt;</code> , <code>&lt;/table&gt;</code>	start and end a table
<code>&lt;tr&gt;</code> , <code>&lt;/tr&gt;</code>	table row
<code>&lt;td&gt;</code> , <code>&lt;/td&gt;</code>	table cell
<code>&lt;th&gt;</code> , <code>&lt;/th&gt;</code>	table heading; like a table cell except that the text is bold and centered

```
<table border=0
  cellspacing=2
  cellpadding=5>
<tr bgcolor="#cecece">
  <th>Year</th>
  <th>Revenue</th>
  <th>Expenditures</th>
  <th>Profits</th>
</tr>
<tr bgcolor=white>
  <td>1999</td>
  <td>$58,295</td>
  <td>$73,688</td>
  <td>$(15,393)</td>
</tr>
<tr bgcolor="#cecece">
  <td>2000</td>
  <td>$902,995</td>
  <td>$145,400</td>
  <td>$757,595</td>
</tr>
</table>
```

Year	Revenue	Expenditures	Profits
1999	\$58,295	\$73,688	\$(15,393)
2000	\$902,995	\$145,400	\$757,595

# Forms

---

To collect data from users, use the form tag:

```
<form method=POST action=/register/new.pl>
```

```
<form method=GET action=/register/new.php>
```

## Code Example

```
<form method=POST action=/survey/demographic>
<input type=hidden name=user_id value=2205>
Age: <input type=text size=2><br>
Sex: <input type=radio name=sex value=m>male
     <input type=radio name=sex value=f>female<br>
What are you interested in (check all that apply)?
<input type=checkbox name=interest value="aerobatics">Aerobatics
<input type=checkbox name=interest
value="helicopters">Helicopters
<input type=checkbox name=interest value="IFR">IFR
<input type=checkbox name=interest value="seaplanes">Seaplanes
<br>
Where do you live?
  <select name=continent_live>
  <option value=north_america>North America
```

```
<option value=south_america>South America
<option value=africa>Africa
</select>
<br>
```

Which continents have you visited?<br>

```
<select multiple size=3 name=continent_visited>
<option value=north_america>North America
<option value=south_america>South America
</select>
<br>
```

Describe your favorite airplane trip:<br>

```
<textarea name=favorite_trip_story rows=5 cols=50></textarea>
<p>
```

```
<input type=file name="FileName" maxlength=12>
<input type=password name="Password">
<input type=submit value="Continue">
<input type=reset value="Reset">
</form>
```



## Typical Rendering

Age:

Sex:  male  female

What are you interested in (check all that apply)?  Aerobatics  Helicopters  IFR  
 Seaplanes

Where do you live?

Which continents have you visited?

North America  
 South America  
 Africa

Describe your favorite airplane trip:

Continue

# Tag eventos

---

Evento	HTML Tag
onClick=applet onDbIcIck=	quase todas
onKeyDown= onKeyPress= onKeyUp=	
onMouseDown= onMouseUp= onMouseOver= onMouseOut=	
onFocus=	<a> <body> <button> <input> <select> <textarea>
onLoad= onUnLoad=	<body> <body>
onSubmit= onReset=	<form> <form>



# Cores

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- Nomes de cores e valores RGB definidos no standard HTML

Aqua	#00FFFF
Black	#000000
Blue	#0000FF
Fuchsia	#FF00FF
Grey	#808080
Green	#008000
Lime	#00FF00
Maroon	#800000
Navy	#000080
Olive	#808000
Purple	#800080
Red	#FF0000
Silver	#C0C0C0
Teal	#008080
Yellow	#FFFF00
White	#FFFFFF

