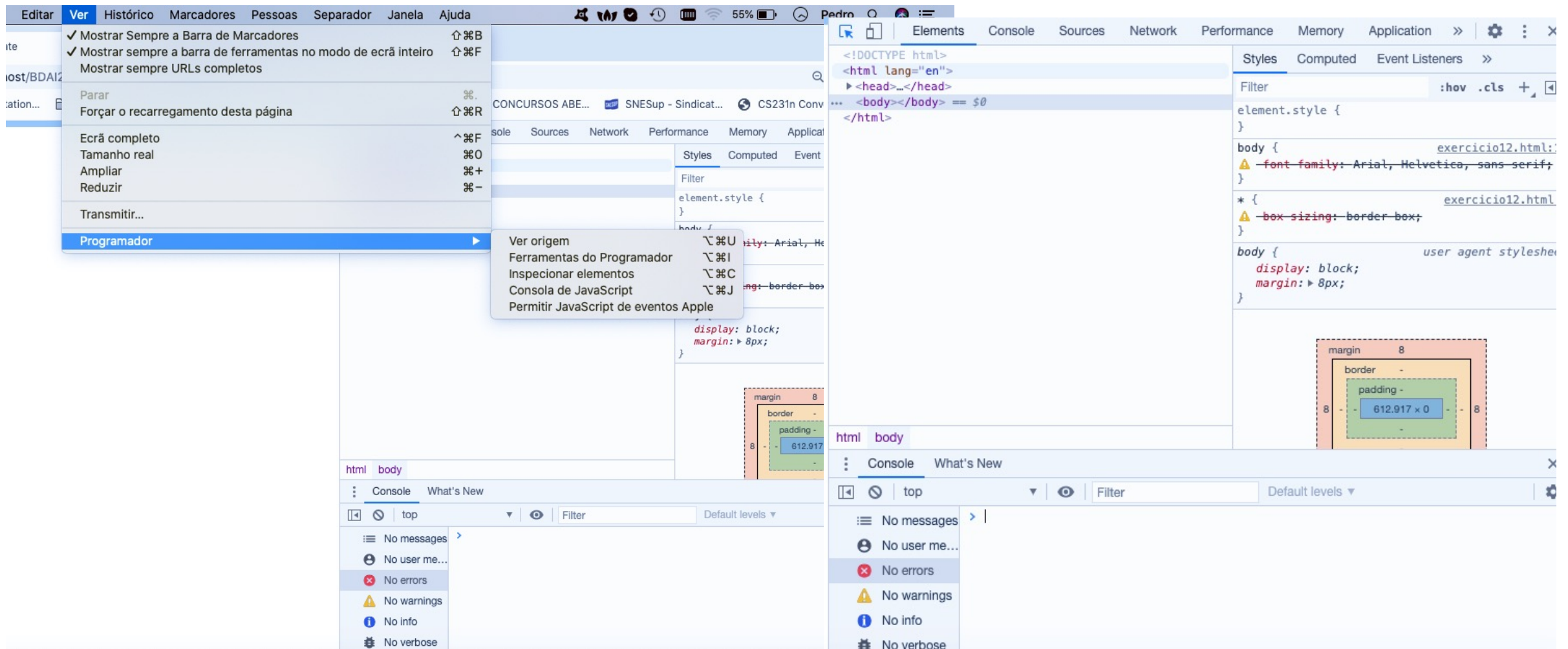


# HTML and CSS

Breve introdução

Objectivo: perceber apenas o que é e como funciona

# Como ver os erros da pagina HTML, Javascript, css, etc?



# Creating your Web Site

## Technologies & Tools

- Markup Languages
  - HTML, DHTML, XML, XSLT, etc....
- Cascading Style Sheets (CSS)
- Scripting languages (code)
  - perl, javascript, php, etc....
- Web creation and editing software
  - **Any basic text editor**
  - **Notepad**, FrontPage, Coldfusion, Flash, Hotmetal, Site Builder, etc..

# Markup Languages - HTML

Derived from SGML

(Standard Generalized Markup Language )

- **HyperText Markup Language**

# HTML Fundamentals

- Clear text, case insensitive
- Ignores white space
- Comprised of tags `<tag>`, `<tag />`
- Open tags and closed tags `<tag>`, `</tag>`

# HTML - Fundamentals

- Opened tags
  - `<name attributes/>`
  - `<hr/>`, `<br/>`
  - ``
- Closed tags
  - `<name attributes> stuff </name>`
  - `<b>text to be bolded</b>`
  - `<h1>level 1 heading text</h1>`
- Comments
  - `<!-- comment text -->`

# HTML – Fundamentals

## Document Structure

**< HTML >**

**Header**

A diagram illustrating the structure of an HTML document. It consists of two blue rectangular boxes stacked vertically. The top box is labeled 'Header' and the bottom box is labeled 'Body'. The 'Body' box is significantly larger than the 'Header' box. The entire structure is enclosed between the opening < HTML > tag at the top and the closing < / HTML > tag at the bottom.

**Body**

**< / HTML >**

# HTML – Fundamentals

## Basic Structure

```
<html>
  <head>
    <title> The title of your html page </title>
    <meta_tags/>
  </head>
  <body>

    <! - - your web page content and markup - ->

  </body>
</html>
```



# HTML - Fundamentals

*header*

<body>

Hello world

</body>

# Como “correr” isto, ou ver a pagina?

- No browser
- Abrir a página directamente do ficheiro, só para ver o conteúdo
  - Basta guardar o ficheiro com o html num ficheiro .html e tocar das vezes por cima dele ou,
  - Ir ao browser e abrir o ficheiro no browser
- Mostrar a página para acesso em qualquer sitio do mundo, estando ela alojada no seu computador
  - Correr o MAMP: isso corre tb o que se chama um webserver (Apache), que é uma aplicação que serve acessos de qualquer parte do mundo a paginas web alojadas num computador
  - Qualquer ficheiro .html que você ponha numa directoria htdocs do local onde ficou o apache instalado no seu computador sera mostrada quando você puser no browser o nome desse ficheiro. Se o ficheiro for html1.html, será:

**`http://localhost/html1.html`**

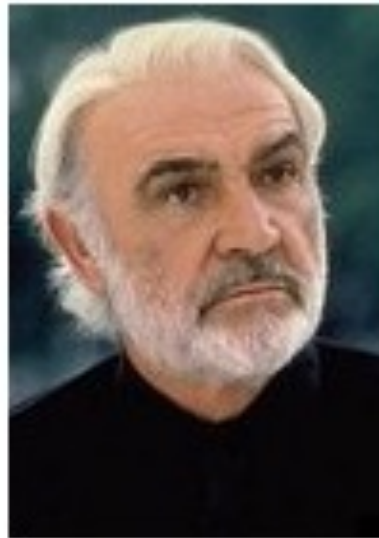
- **URL= universal resource locator: endereço como o exemplo aqui dado...**

# HTML - Fundamentals

**Mike Tyler**

PO Box 190387

Hungry Horse, Mt 59919



[Read my Bio](#)

# HTML - Fundamentals

```
<html>
```

```
<head>
```

```
</head>
```

```
<body>
```

Mike Tyler

PO Box 190387

Hungry Horse, Mt 59919

```
</body>
```

```
</html>
```

# HTML - Fundamentals

*header*

<body>

Mike Tyler

PO Box 190387

Hungry Horse, Mt 59919

</body>

# HTML - Fundamentals

*header*

<body>

<b>Mike Tyler</b><br>

PO Box 190387<br>

Hungry Horse, Mt 59919<br>

</body>

# HTML - Fundamentals

*header*

<body>

<font face="Arial,Times,Courier" color="red" size="3">

<b>Mike Tyler</b><br>

PO Box 190387<br>

Hungry Horse, Mt 59919<br>

</font>

</body>

# HTML - Fundamentals

*header*

<body>

<p align='center'>

<font face="Arial,Lucida Sans" color="red" size="3">

<b>Mike Tyler</b><br>

PO Box 190387<br>

Hungry Horse, Mt 59919<br></font>

</p>

</body>



# HTML - Fundamentals

*header*

<body>

<p align='center'>

<font face="Arial,Lucida Sans" color="red" size="3">

<b>Mike Tyler</b><br>

PO Box 190387<br>

Hungry Horse, Mt 59919<br></font>

</p>

<img src='http://www.myserver.com/images/mike.jpg' />

</body>

# HTML - Fundamentals

*header*

<body>

<p align='center'>

<font face='Arial,Lucida Sans' color='red' size=3>

<b>Mike Tyler</b><br>

PO Box 190387<br>

Hungry Horse, Mt 59919<br></font>

</p>

<img src='http://www.domain.com/images/mike.jpg'>

<a href='biopage.html'>Read my Bio</a>

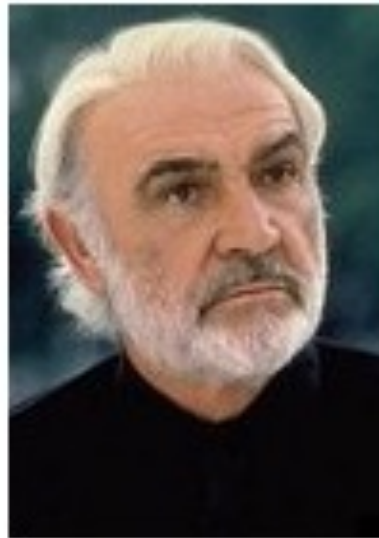
</body>

# HTML - Fundamentals

**Mike Tyler**

PO Box 190387

Hungry Horse, Mt 59919



[Read my Bio](#)

# HTML - Fundamentals

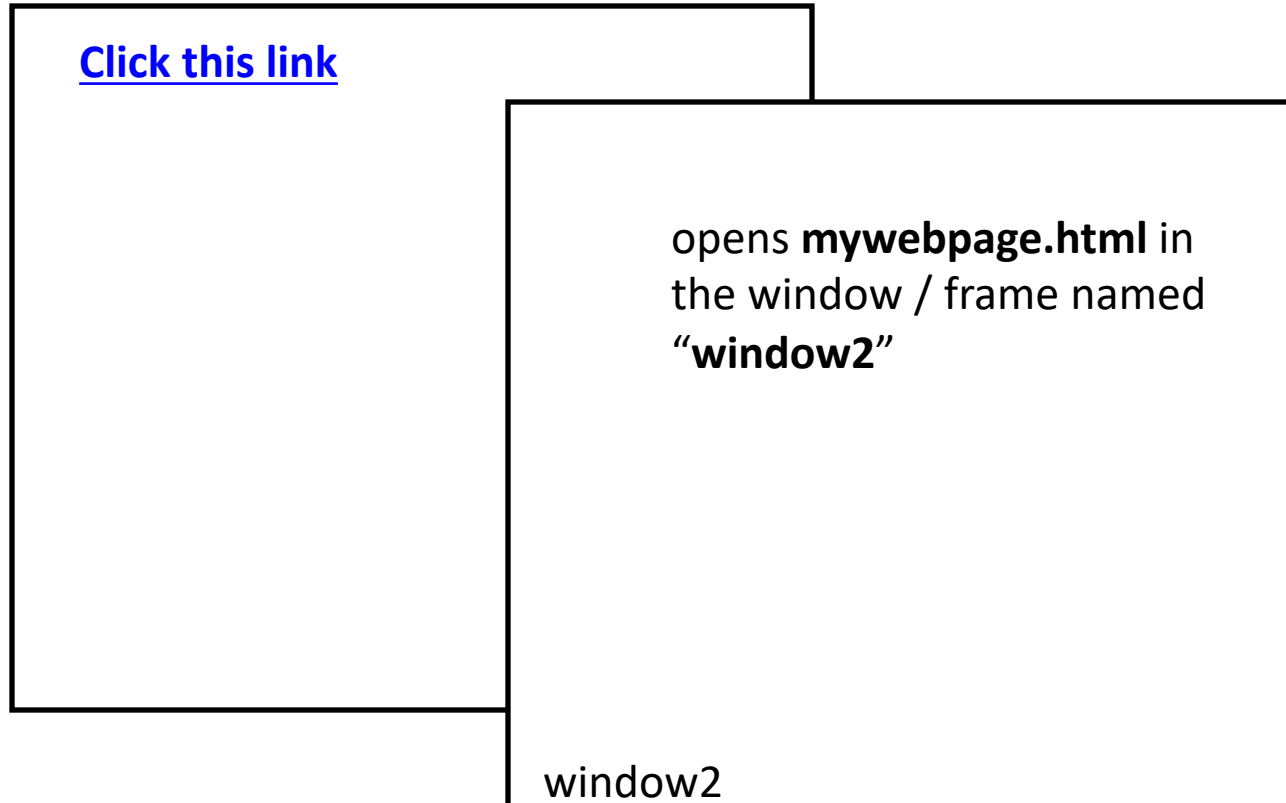
## **ANCHORS** (Hypertext Link)

`<A href="url" >Displayed text </A>`

# HTML – Fundamentals

## Hypertext links

`<a href="mywebpage.html" target="window2">Click this link </a>`



# HTML - Fundamentals

## ANCHORS (Hypertext Link)

<A href="url" **attributes**>Displayed text </A>

### attributes

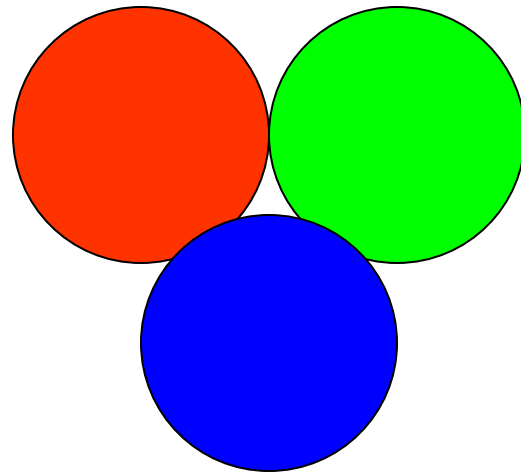
- NAME = "text"
- TITLE = "text"
- TARGET = "frame\_name|window\_name"

# HTML – Fundamentals

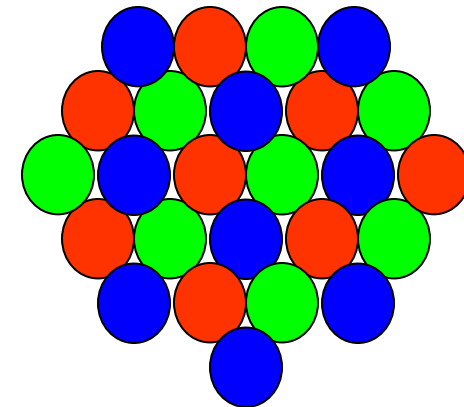
## Colors

- Cathode Ray Tubes (CRT)

All colours are obtained from RGB triples



Screens are:



# HTML – Fundamentals

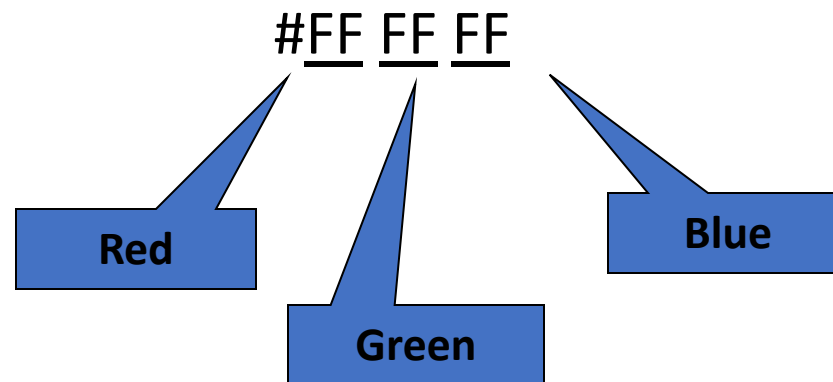
## Colors

color = “red” (Browser compatibility issues)

color = “#FF0000”

values vary from 00 to FF (hexadecimal)

0,1,2,3,4,5,6,7,8,9,a,b,c,d,e,f





# HTML – Fundamentals

## Headings

- Renders text as a heading, the rendering depending on the level of heading selected. Headings should be automatically spaced from the body text.

`<h1>Heading 1 level text</h1>`

`<h2>Heading 2 level text</h2>`

`<h3>Heading 3 level text</h3>`

`<h4>Heading 4 level text</h4>`

`<h5>Heading 5 level text</h5>`

`<h6>Heading 6 level text</h6>`

# HTML – Fundamentals

## Lists

### Unordered list

```
<ul>  
  <li>apples</li>  
  <li>bananas</li>  
  <li>grapes</li>  
  <li>strawberries</li>  
</ul>
```

### Ordered list

```
<ol type='i' start='2'>  
  <li>apples</li>  
  <li>bananas</li>  
  <li>grapes</li>  
  <li>strawberries</li>  
</ol>
```

# HTML – Fundamentals

## Lists

### **Unordered list**

- apples
- bananas
- grapes
- strawberries

### **Ordered list**

- II. apples
- III. bananas
- IV. grapes
- V. strawberries

# HTML – Fundamentals

## Tables

Student	Grade
Tom	B+
Sue	A-

Class Grades

# HTML – Fundamentals

## Tables

```
<TABLE>
  <CAPTION ALIGN="bottom">Class Grades</CAPTION>
  <TR>
    <TH>Student</TH>
    <TH>Grade</TH>
  </TR>
  <TR>
    <TD>Tom</TD>
    <TD>B+</TD>
  </TR>
  <TR>
    <TD>Sue</TD>
    <TD>A-</TD>
  </TR>
</TABLE>
```

# HTML – Fundamentals

## Tables

- BORDER=*value*
- ALIGN=*left | right | center*
- CELSPACING=*value*
- CELLPADDING=*value*
- WIDTH=*value | percent*

# HTML – Fundamentals

## Tables

```
<TABLE BORDER=1 WIDTH="50%" CELLPADDING="6" CELLSPACING="2" ALIGN="RIGHT">
  <CAPTION ALIGN="bottom">Class Grades</CAPTION>
  <TR>
    <TH>Student</TH>
    <TH>Grade</TH>
  </TR>
  <TR>
    <TD>Tom</TD>
    <TD>B+</TD>
  </TR>
  <TR>
    <TD>Sue</TD>
    <TD>A-</TD>
  </TR>
</TABLE>
```

# HTML – Fundamentals

## Tables

Student	Grade
Tom	B-
Sue	A+

Class Grades



# Tabela de employees

## **Employees**

<b>Nome</b>	<b>Função</b>	<b>Departamento</b>
Joao Sampaio	Presidente	Contabilidade
Augusto Reis	Encarregado	Investigação
Maria Dias	Analista	Investigação

```
<body>
```

```
<h2><b>Employees</b></h2>
```

```
<table id="empdepTable"> <!-- style="width:70%"> -->
```

```
<tr>
```

```
<th>Nome</th>
```

```
<th>Função</th>
```

```
<th>Departamento</th>
```

```
</tr>
```

```
<tr>
```

```
<td>Joao Sampaio</td>
```

```
<td>Presidente</td>
```

```
<td>Contabilidade</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Augusto Reis</td>
```

```
<td>Encarregado</td>
```

```
<td>Investigação</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Maria Dias</td>
```

```
<td>Analista</td>
```

```
<td>Investigação</td>
```

```
</tr>
```






```
</table>
```

```
</body>
```

# Form

[https://www.w3schools.com/html/html\\_forms.asp](https://www.w3schools.com/html/html_forms.asp)

[Home](#) [HTML](#) [HTML Forms](#) [Tryit: HTML form element](#)

    [Run](#) 

Result Size: 836 x 639 [Get your own website](#)

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Doe"><br><br>
  <input type="submit" value="Submit">
</form>

<p>If you click the "Submit" button, the form-data will be sent to a page called
"/action_page.php".</p>

</body>
</html>
```

## HTML Forms

First name:

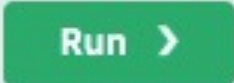




Last name:

If you click the "Submit" button, the form-data will be sent to a page called "/action\_page.php".

# Form

[https://www.w3schools.com/html/html\\_forms.asp](https://www.w3schools.com/html/html_forms.asp)

Home HTML HTML Forms Tryit: HTML form element



```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Doe"><br><br>
  <input type="submit" value="Submit">
</form>

<p>If you click the "Submit" button, the form-data will be sent to a page called
"/action_page.php".</p>

</body>
</html>
```

# Form

[https://www.w3schools.com/html/html\\_forms.asp](https://www.w3schools.com/html/html_forms.asp)

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Doe"><br><br>
  <input type="submit" value="Submit">
</form>

<p>If you click the "Submit" button, the form-data will be sent to a page called "/action_page.php".</p>

</body>
</html>
```

# form

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>HTML Forms</h2>
```

```
<form action="/action_page.php">
```

```
  <label for="fname">First name:</label><br>
```

```
  <input type="text" id="fname" name="fname"  
value="John"><br>
```

```
  <label for="lname">Last name:</label><br>
```

```
  <input type="text" id="lname" name="lname"  
value="Doe"><br><br>
```

```
  <input type="submit" value="Submit">
```

```
</form>
```

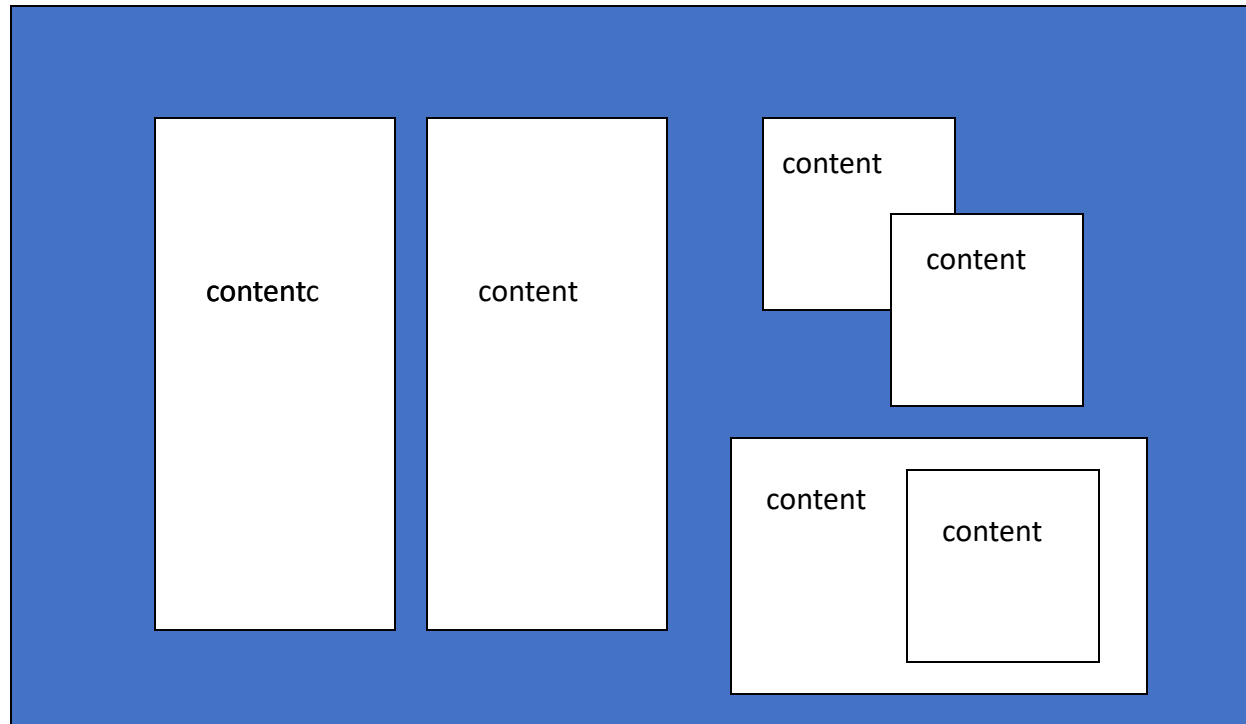
```
<p>If you click the "Submit" button, the form-data will be sent  
to a page called "/action_page.php".</p>
```

```
</body>
```

```
</html>
```

# HTML – Fundamentals

DIV



# HTML – Fundamentals

DIV – separa conteudos na pagina

`<div attributes> content </div>`

attributes

- ID=“name”
- STYLE = “style parameters re: CSS”



# HTML – Fundamentals

## DIV

```
< DIV ID="fred"  
  STYLE = "POSITION:absolute|relative;  
    VISIBILITY:visible:hidden;  
    Z-INDEX:number;  
    WIDTH:width in pixels;  
    HEIGHT:height in pixels;  
    TOP:pixels from top of page or block;  
    LEFT:pixels from left edge of page or block;  
    PADDING:margin in pixels;  
    other style attributes; " >  
  
  content  
</DIV>
```

# HTML – Fundamentals

## DIV

```
<div style="position:absolute; left:100px; top:100px; width:100px;  
height:100px; background-color:#ffffff; ">
```

# HTML – Fundamentals

## CASCADING STYLE SHEETS (CSS)

- Styles enable you to define a consistent 'look' for your documents by describing **once** how headings, paragraphs, quotes, etc. should be displayed.
- Style sheet syntax is made up of three parts:  
    selector {property: value}  
    selector = element.class

H1 {text-align: center; color: blue}

# HTML – Fundamentals

## CASCADING STYLE SHEETS (CSS)

H1 {text-align: center; color: blue}

A {color:green; font-familiy:arial,courier; font-weight:bold;}

td { align:center; background-color:grey; border-color:red;}

div {position:absolute; visibily:hidden; margin:10px }

font {color:navy; font-size:2pt; font-face:trebuchet; }

hr {color:#ff0000; width:80%; align:center; }

table {width:80%; align:center; border:2px; padding:5px; }

# HTML – Fundamentals

CASCADING STYLE SHEETS (CSS)

Embedded

**<head>**

**<title> My Page Title </title>**

**<style TYPE="text/css >**

**<!--**

**element.class { property:value; }**

**element.class { property:value; }**

**-->**

**</style>**

**</head>**

# HTML – Fundamentals

## CASCADING STYLE SHEETS (CSS)

### Linked

Styles can be defined in a separate file

```
<font style="property:value; "> text </font>
```

```
<font class="fred"> text </font>
```

mystyles.css

```
<head>
```

```
<LINK REL="stylesheet" HREF="mystyles.css" TYPE="text/css">
```

```
</head>
```

# HTML – Fundamentals

## CASCADING STYLE SHEETS (CSS)

```
/* Example style sheet file (note how this comment was created) */
```

```
BODY    {background: #FFFFD8; margin-top: 20}
```

```
A:link   {color: #400080; background: #FFFFD8}
```

```
H1       {font-weight: bold; text-align: center; color: #006000; background: #FFFFD8; font-family: Gill  
Sans, Arial, sans-serif; }
```

```
font.caption {font-family: Gill Sans, Arial, sans-serif; font-style: italic; }
```

```
/* End of example style sheet file */
```

# HTML – Fundamentals

CASCADING STYLE SHEETS (CSS)

Inline

Styles can be placed within individual elements

```
<font style="color:red; font-face:arial;" >
```



# HTML – Fundamentals

## CASCADING STYLE SHEETS (CSS)

### Using IDs

- IDs enable you to define a unique style which you can apply to a number of elements.

```
<STYLE>
```

```
<!--
```

```
    #copyright {font-style:italic; font-size:smaller; }
```

```
-->
```

```
</STYLE>
```

```
<p ID="copyright"> Any textual content </p>
```

# HTML – Fundamentals

## Images

```

```

```

```

```
img.pics { width:75px; height:50px; border-width:3px }
```

# Resources

<http://www.w3schools.com/>

- **HTML Tutorials**

- Learn HTML
  - Learn XHTML
  - Learn CSS
  - Learn TCP/IP

- **Browser Scripting**

- Learn JavaScript
  - Learn DHTML
  - Learn VBScript
  - Learn HTML DOM
  - Learn WMLScript

- **Server Scripting**

- Learn SQL
  - Learn ASP
  - Learn ADO
  - Learn PHP

- **XML Tutorials**

- Learn XML
  - Learn XSL
  - Learn XSLT
  - Learn XSL-FO
  - Learn XPath
  - Learn XQuery
  - Learn XLink
  - Learn XPointer
  - Learn DTD
  - Learn Schema
  - Learn XML DOM
  - Learn XForms
  - Learn SOAP
  - Learn WSDL
  - Learn RDF
  - Learn RSS
  - Learn WAP

- **.NET (dotnet)**

- .NET Microsoft
  - .NET ASP
  - .NET Mobile

- **Multimedia**

- Learn Media
  - Learn SMIL
  - Learn SVG
  - Learn Flash

- **Web Building**

- Web Building
  - Web W3C
  - Web Browsers
  - Web Quality
  - Web Semantic
  - Web Careers
  - Web Hosting
  - Web Certification

# Página vazia

```
<!DOCTYPE html>  
<html>  
  <head>  
  
  </head>  
  
  <body>  
  
  </body>  
  
</html>
```

# Exercicio1: Intro to css (exercicio1.html)

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
  color: red;
  text-align: center;
}
</style>
</head>
<body>

<p>Hello World!</p>
<p>These paragraphs are styled with CSS.</p>

</body>
</html>
```

Hello World!

These paragraphs are styled with CSS.

Selector

h1

Declaration

{color:blue; font-size:12px;}

Declaration

Property

Value

Property

Value

# Exercicio 2: coloured

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
  background-color: lightblue;
}
```

```
h1 {
  color: white;
  text-align: center;
}
```

```
p {
  font-family: verdana;
  font-size: 20px;
}
</style>
</head>
<body>
```

```
<h1>My First CSS Example</h1>
<p>This is a paragraph.</p>
```

```
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>

</head>
<body>

</body>
</html>
```

```
<h1>My First CSS Example</h1>
<p>This is a paragraph.</p>
```

```
</body>
</html>
```

My First CSS Example

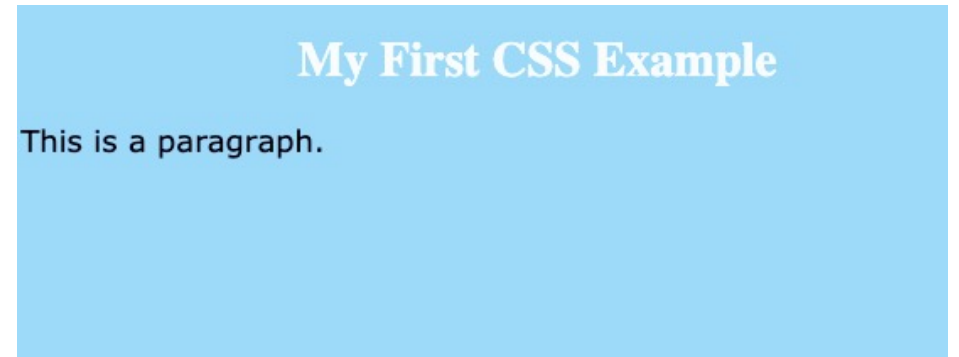
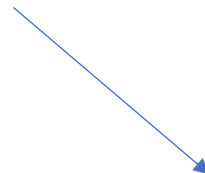
This is a paragraph.

# Exercicio3: Where to put the css

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="mystyle.css">
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```



```
body {
  background-color: lightblue;
}

h1 {
  color: navy;
  margin-left: 20px;
}
```

# CSS Color Names


In CSS, a color can be specified by using a color name:




Tomato



Orange




DodgerBlue



MediumSeaGreen



Gray



SlateBlue



Violet

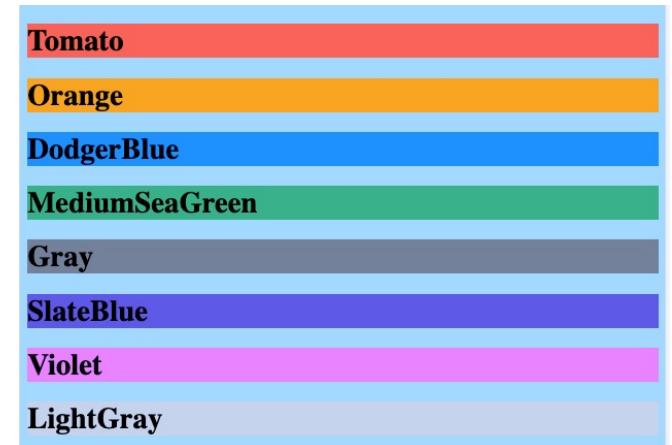


LightGray



# 4R: colours

```
<!DOCTYPE html>
<html>
  <body>
    <h1 style="background-color:Tomato;">Tomato</h1>
    <h1 style="background-color:Orange;">Orange</h1>
    <h1 style="background-color:DodgerBlue;">DodgerBlue</h1>
    <h1 style="background-color:MediumSeaGreen;">MediumSeaGreen</h1>
    <h1 style="background-color:Gray;">Gray</h1>
    <h1 style="background-color:SlateBlue;">SlateBlue</h1>
    <h1 style="background-color:Violet;">Violet</h1>
    <h1 style="background-color:LightGray;">LightGray</h1>
  </body>
</html>
```



Material adicional

```
<!DOCTYPE html>
<html>
  <body>
    <h3 style="color:Tomato;">Hello World</h3>
    <p style="color:DodgerBlue;">Lorem ipsum dolor sit amet, consectetur
adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam
erat volutpat.</p>
    <p style="color:MediumSeaGreen;">Ut wisi enim ad minim veniam, quis
nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo
consequat.</p>
  </body>
</html>
```

### Hello World

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.

# 6R: Borders

```
<!DOCTYPE html>
<html>
  <body>
    <h1 style="border: 2px solid Tomato;">Hello World</h1>
    <h1 style="border: 2px solid DodgerBlue;">Hello World</h1>
    <h1 style="border: 2px solid Violet;">Hello World</h1>
  </body>
</html>
```

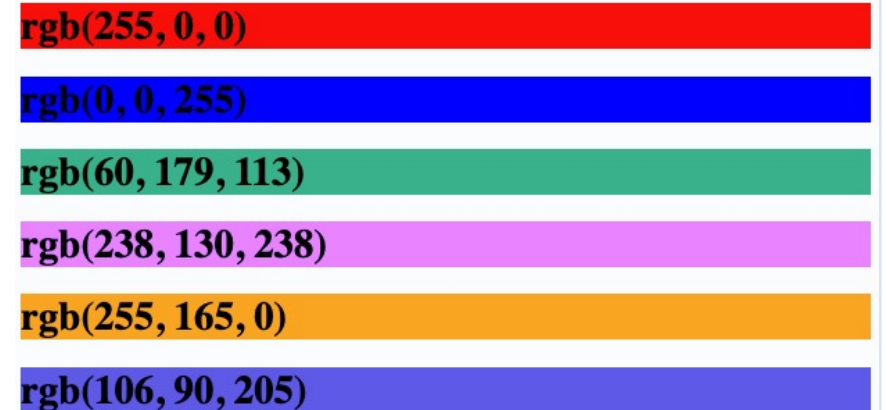
**Hello World**

**Hello World**

**Hello World**

# 7R: cores numericas

```
<!DOCTYPE html>
<html>
  <body>
    <h1 style="background-color:rgb(255, 0, 0);">rgb(255, 0, 0)</h1>
    <h1 style="background-color:rgb(0, 0, 255);">rgb(0, 0, 255)</h1>
    <h1 style="background-color:rgb(60, 179, 113);">rgb(60, 179, 113)</h1>
    <h1 style="background-color:rgb(238, 130, 238);">rgb(238, 130, 238)</h1>
    <h1 style="background-color:rgb(255, 165, 0);">rgb(255, 165, 0)</h1>
    <h1 style="background-color:rgb(106, 90, 205);">rgb(106, 90, 205)</h1>
    <p>In HTML, you can specify colors using RGB values.</p>
  </body>
</html>
```



In HTML, you can specify colors using RGB values.

# Exercicio 8: cores em valores Hex

```
<!DOCTYPE html>
<html>
  <body>
    <h1 style="background-color:#ff0000;">#ff0000</h1>
    <h1 style="background-color:#0000ff;">#0000ff</h1>
    <h1 style="background-color:#3cb371;">#3cb371</h1>
    <h1 style="background-color:#ee82ee;">#ee82ee</h1>
    <h1 style="background-color:#ffa500;">#ffa500</h1>
    <h1 style="background-color:#6a5acd;">#6a5acd</h1>
    <p>In HTML, you can specify colors using Hex values.</p>
  </body>
</html>
```

**#ff0000**

**#0000ff**

**#3cb371**

**#ee82ee**

**#ffa500**

**#6a5acd**

In HTML, you can specify colors using Hex values.

Shades of gray are often defined using equal values for all the 3 light sources:

## Example

`rgb(0, 0, 0)`

`rgb(60, 60, 60)`

`rgb(120, 120, 120)`

`rgb(180, 180, 180)`

`rgb(240, 240, 240)`

`rgb(255, 255, 255)`

## Auto Sidebar

This sidebar is as tall as its content (the links), and is always shown.

Scroll down the page to see the result.

Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, malisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, malisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

<body>

<div class="sidenav">

<a href="#about">About</a>

<a href="#services">Services</a>

<a href="#clients">Clients</a>

<a href="#contact">Contact</a>

</div>

<div class="main">

<h2>Auto Sidebar</h2>

<p>This sidebar is as tall as its content (the links), and is always shown.</p>

<p>Scroll down the page to see the result.</p>

<p>Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, malisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.</p>

REPETE O ULTIMO <p>...</p> 4 vezes

</div>

</body>



## Auto Sidebar

This sidebar is as tall as its content (the links), and is always shown.

Scroll down the page to see the result.

Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

```
.main {  
  margin-left: 140px; /* Same width as the sidebar + left position in px */  
  font-size: 28px; /* Increased text to enable scrolling */  
  padding: 0px 10px;
```

```
.sidenav {  
  width: 130px;  
  position: fixed;  
  z-index: 1;  
  top: 20px;  
  left: 10px;  
  background: #eee;  
  overflow-x: hidden;  
  padding: 8px 0;  
}
```

```
.sidenav a {  
  padding: 6px 8px 6px 16px;  
  text-decoration: none;  
  font-size: 25px;  
  color: #2196F3;  
  display: block;  
}
```

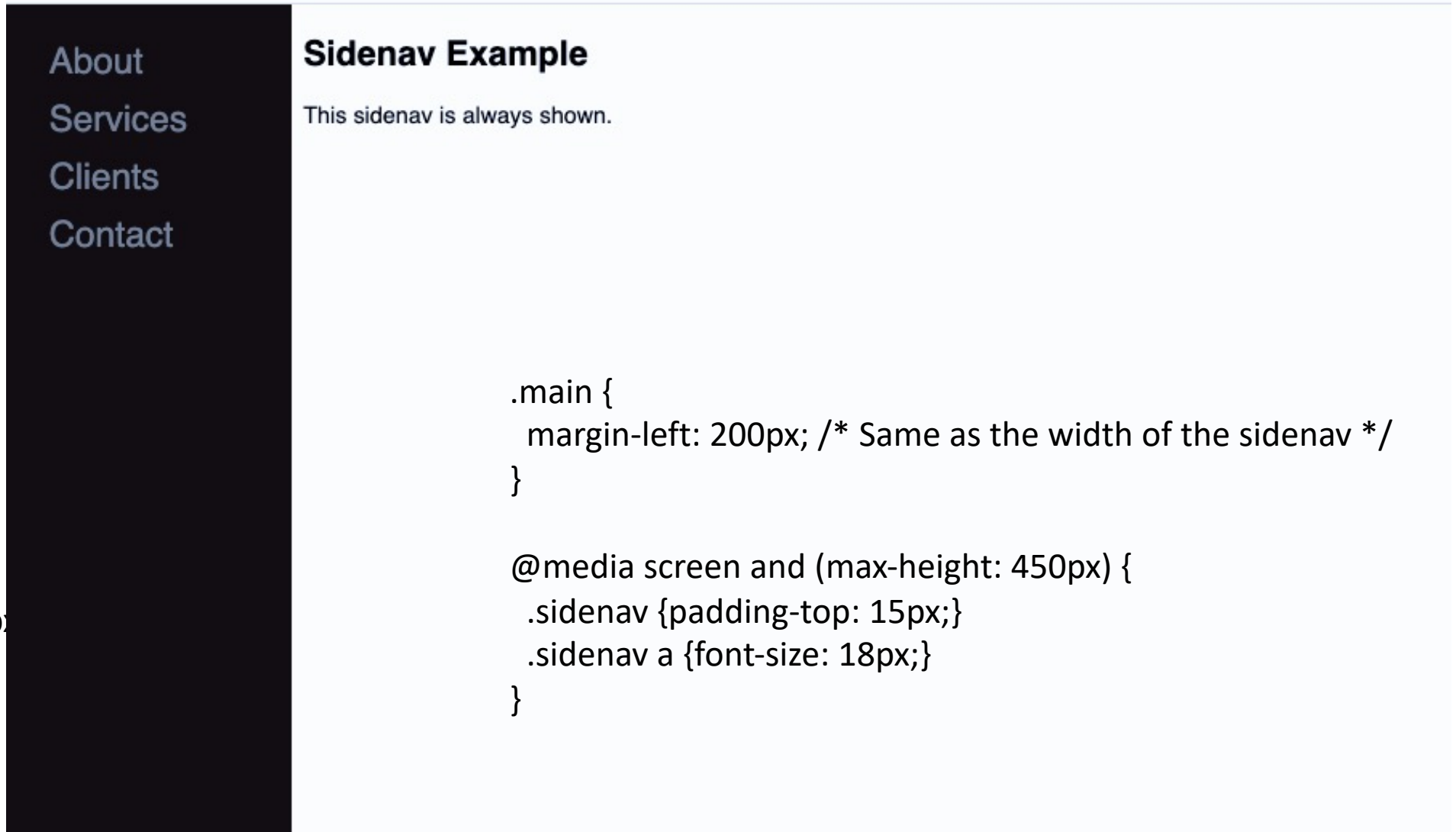
```
.sidenav a:hover {  
  color: #064579;  
}
```

# Exercicio 17: sidebar preto e fixo

```
body {  
  font-family: "Lato", sans-serif;  
}
```

```
.sidenav {  
  height: 100%;  
  width: 200px;  
  position: fixed;  
  z-index: 1;  
  top: 0;  
  left: 0;  
  background-color: #111;  
  overflow-x: hidden;  
  padding-top: 20px;  
}
```

```
.sidenav a {  
  padding: 6px 6px 6px 32px;  
  text-decoration: none;  
  font-size: 25px;  
  color: #818181;  
  display: block;  
}
```



# Run URLs

<https://www.w3schools.com/howto/default.asp>

# Webpage Layout and Website Design

- Technical definitions:
  - A webpage is a single HTML document
  - A website is a collection of related webpages
- Designing a good website requires more than just putting together a few pages

# Examples

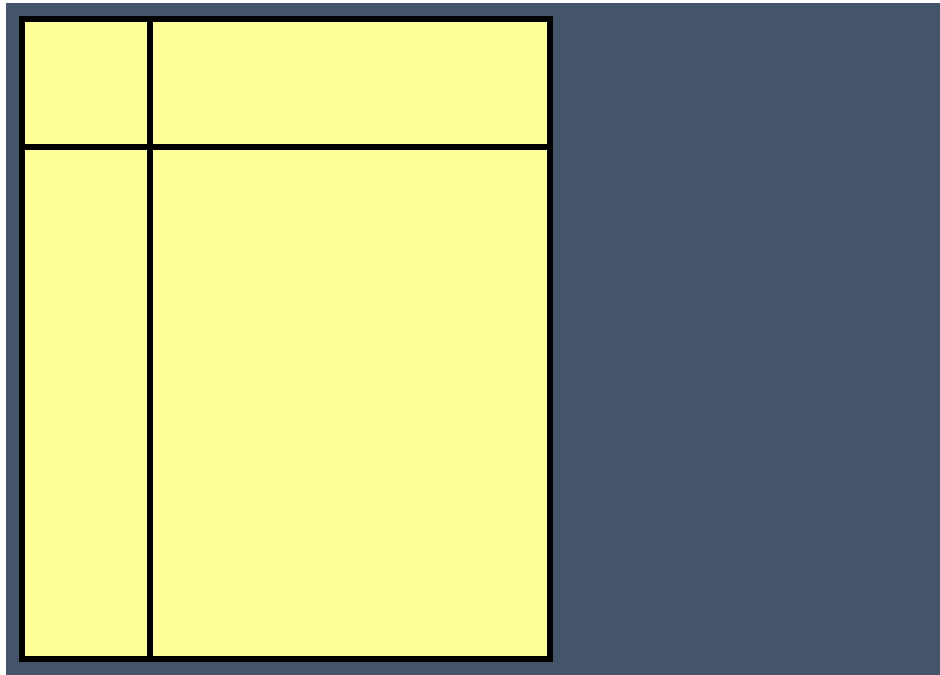
- [www.projectpuffin.org](http://www.projectpuffin.org)
- [www.pmlodge.com](http://www.pmlodge.com)
- [www.uintafishing.com](http://www.uintafishing.com)
- [www.uncommonadv.com](http://www.uncommonadv.com)

# Web Page Layout

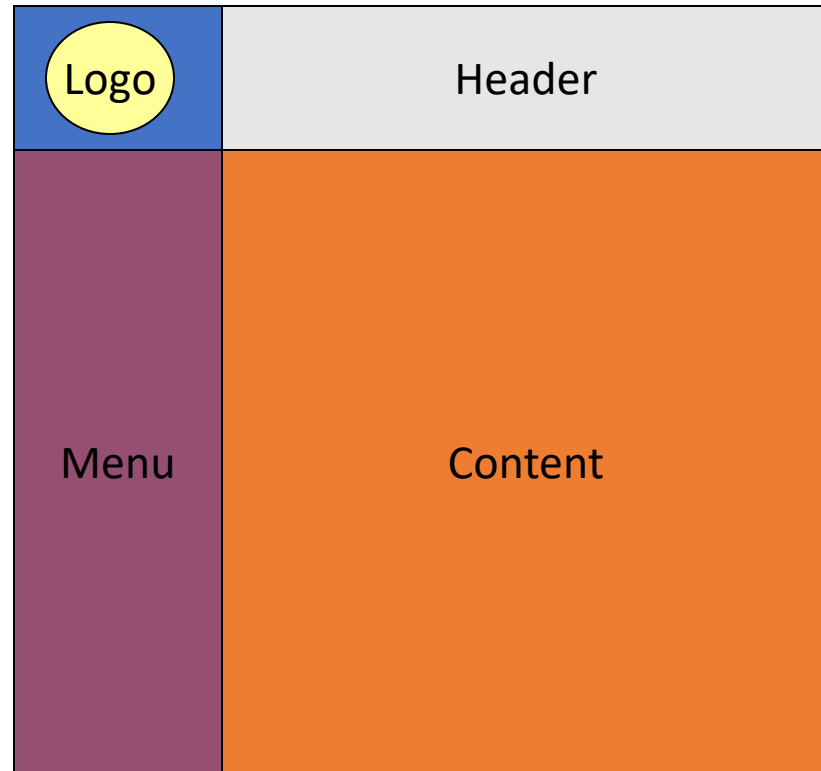
- Layout of web pages is very important
- Poor layout makes for -
  - Difficult navigation
  - Hard to locate information on page
  - Visually unappealing

# Tables, tables, tables!

- Use tables to lay out your pages!
- Make the table borders invisible
- A 2x2 table works well



# Areas of a Web Page





# A 2 x 2 Layout



**Project  
Description**

**Background  
Information**

**Research  
Stations**

**The Puffin  
Burrow**

**The Seabird  
Center**

**Suggested  
Readings**

**Education  
Programs**

**Project  
Staff**

**All About  
Puffins**

## ***Project Puffin*** ***What is Project Puffin?***

The National Audubon Society started Project Puffin in 1973 in an effort to learn how to restore puffins to historic nesting islands in the Gulf of Maine. At that time, literally all the puffin eggs in Maine were in two baskets - [Matinicus Rock](#) and Machias Seal Island. Although puffins are not an endangered species (they are abundant in Newfoundland, Iceland, and Britain), they are rare in Maine. The two surviving colonies were very vulnerable to a disaster such as an oil spill, or accidental establishment of predators such as rats or mink.

The Project began with an attempt to restore puffins to [Eastern Egg Rock](#) in Muscongus Bay, about six miles east of Pemaquid Point. [Puffins had nested there until the early 1880's when hunters took the last survivors of this once-flourishing colony.](#) The restoration of puffins to [Eastern Egg Rock](#) is based on the fact that young puffins usually return to breed on the same island where they hatched.




Young puffins from Great Island, Newfoundland (where about 160,000 pairs nest) were transplanted to Eastern Egg Rock when they were about 10 - 14 days old. The young puffins were then reared in artificial sod burrows for about one month. Audubon biologists placed handfuls of vitamin-fortified fish in their burrows each day and, in effect, took the place of parent puffins. As the young puffins reached fledging age (the time when birds leave the nest), they

# Other Designs

- [www.adobe.com](http://www.adobe.com) (menu on right)
- [www.uintafishing.com](http://www.uintafishing.com) (many columns)

# Table within a table



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Games and Xbox

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Security

Information For


Home Users

IT Professionals (TechNet)




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- [Get a personalized learning plan for Windows Server 2003](#)
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- [Build a research library with Office 2003 and Web APIs](#)



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<p>Search for <input type="text"/> <input type="button" value="Go"/></p> <p><a href="#">Advanced Search</a></p> <p><b>Product Families</b></p> <ul style="list-style-type: none"><li><a href="#">Windows</a></li><li><a href="#">Office</a></li><li><a href="#">Business Solutions</a></li><li><a href="#">Servers</a></li><li><a href="#">Developer Tools</a></li><li><a href="#">Games and Xbox</a></li><li><a href="#">MSN Services</a></li><li><a href="#">All Products</a></li></ul>	 <p><b>TechEd 2003 is almost here</b> Build your skills at Microsoft's premier training conference for technology professionals. Register by April 11 and save.</p>	<p><b>today's news</b></p> <ul style="list-style-type: none"><li><a href="#">Join a chat April 10: InfoPath solutions</a></li><li><a href="#">Spread out your software payments annually with Open Value License</a></li><li><a href="#">Microsoft security training offer: Enroll now and save</a></li><li><a href="#">Attend a free Windows Server 2003 launch event</a></li></ul> <p><a href="#">More News ...</a></p>
<p><b>Resources</b></p> <ul style="list-style-type: none"><li><a href="#">Support</a></li><li><a href="#">Downloads</a></li><li><a href="#">Windows Update</a></li><li><a href="#">Office Update</a></li><li><a href="#">Learning Tools</a></li><li><a href="#">Communities</a></li><li><a href="#">Security</a></li></ul>	 <p><b>home &amp; entertainment</b></p> <ul style="list-style-type: none"><li><a href="#">Get breaking MSNBC news updates on your computer</a></li><li><a href="#">Turn your photos into a coffee-table book</a></li><li><a href="#">Download spring clip art to add to cards and banners</a></li></ul>	<p><b>downloads</b></p> <ul style="list-style-type: none"><li><a href="#">Windows XP Bliss screen saver</a></li><li><a href="#">Internet Explorer 6, latest version (SP1)</a></li><li><a href="#">Software Update Services with Service Pack 1</a></li></ul>
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	 <p><b>business agility</b></p> <ul style="list-style-type: none"><li><a href="#">Upgrading to Windows Server 2003 from Windows NT Server</a></li><li><a href="#">Want a winning distribution strategy? Try these 3 steps</a></li><li><a href="#">Competitive analysis: Save \$3.2 million with SQL Server</a></li></ul>	



# Centered with three columns



*Enriching MSU's Future*

## CAMPAIGN FOR MSU UNIVERSITY DEVELOPMENT

**MAKING A GIFT  
GIVE NOW**  
MSU Donor Societies  
Guide to Making Your Gift  
Reasons for Giving  
Bequest Language  
Donor Bill of Rights

**FUNDRAISING CAMPAIGNS**  
The Campaign for MSU  
The Annual Fund  
The Big Ten Challenge  
Corporate In-House  
Faculty/Staff Giving  
Senior Class Gift  
Parents Fund

**THE CAMPAIGN FOR MSU**

\$1.2 B
\$1.1 B
\$1.0 B
\$900 M
\$800 M
\$700 M
\$600 M
\$500 M
\$400 M
\$300 M
\$200 M
\$100 M
\$0

CAMPAIGN GOAL: \$1.2 Billion  
STATUS TO GOAL: \$679.5 Million

### The Campaign for MSU News

**Make a Gift!**

- [Levels of On-line Giving Rise Dramatically](#)
- [Major Donors Honored and Endowed Positions Filled](#)
- [Foundations Join Forces To Improve Teacher Education](#)

MSU headlines provided by **MSU today**

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[Students and administration upset with behavior of a few](#)  
[FACT Coalition announces grant awards](#)  
[Students receive awards for making a difference in diversity](#)  
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[MSU Facts in Brief](#)

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[Organizational Chart](#)  
[E-Mail Listing](#)

**UNIVERSITY LINKS**  
[College/Unit Links](#)  
[MSU Homepage](#)  
[MSU Alumni Association](#)  
[Athletics](#)  
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 **Event Pictures**

**UNIVERSITY  
DEVELOPMENT  
HOMEPAGE**

**MICHIGAN STATE  
UNIVERSITY**

Really complicated design!

MSN Home | My MSN | Hotmail | Search | Shopping | Money | People & Chat [Sign In](#)

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Now on ESPN: **SPORTSCENTER**

What to Look For: **ESPN, Wed., 7 p.m. ET**  
**NHL Playoffs: Leafs vs. Flyers**

**Budding Di-Nasty**



Diana Taurasi sparked UConn to its fourth title.

**ESPNEWS HEADLINES**

- MJ not interested in replacing Krause | **Stein**
- Playoff preview? Mavs overtaken by Lakers
- LeBron toasted by Gatorade | **Lottery**
- Godzilla grand in Yankee Stadium debut
- Zito wins second | **Moyer blanks Angels**
- Stern warning to WNBA: Settle, or stay home
- Roy's Kansas future reportedly linked to AD
- Tiger gets in first hacks at Augusta | **Masters**

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**in** Rumors: Are Pats close to signing Gadsden?

**SAMSUNG**

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**Where are all the seniors?**  
Portsmouth lacks star appeal

**in**

**Search the Web**

[Go](#)


**Cup Race Begins Now**

**OILERS-STARS, BRUINS-DEVILS** highlight first-round playoff action tonight

Who are the "ONES TO WATCH" in the playoffs?

**NHL.com on MSN**

 **SENATORS** ascend to league's elite

**KEYS TO THE CUP**

**PLAYOFF SCHEDULE**

Game-worn **JERSEYS**

**SENIOR LEAGUE HOCKEY**

**IMPACT! MAGAZINE**

Listen to live game **RADIO**

**SIM LEAGUE HOCKEY**

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**NHL | Playoffs**  
[Scores](#)

**NFL | NFL Draft**

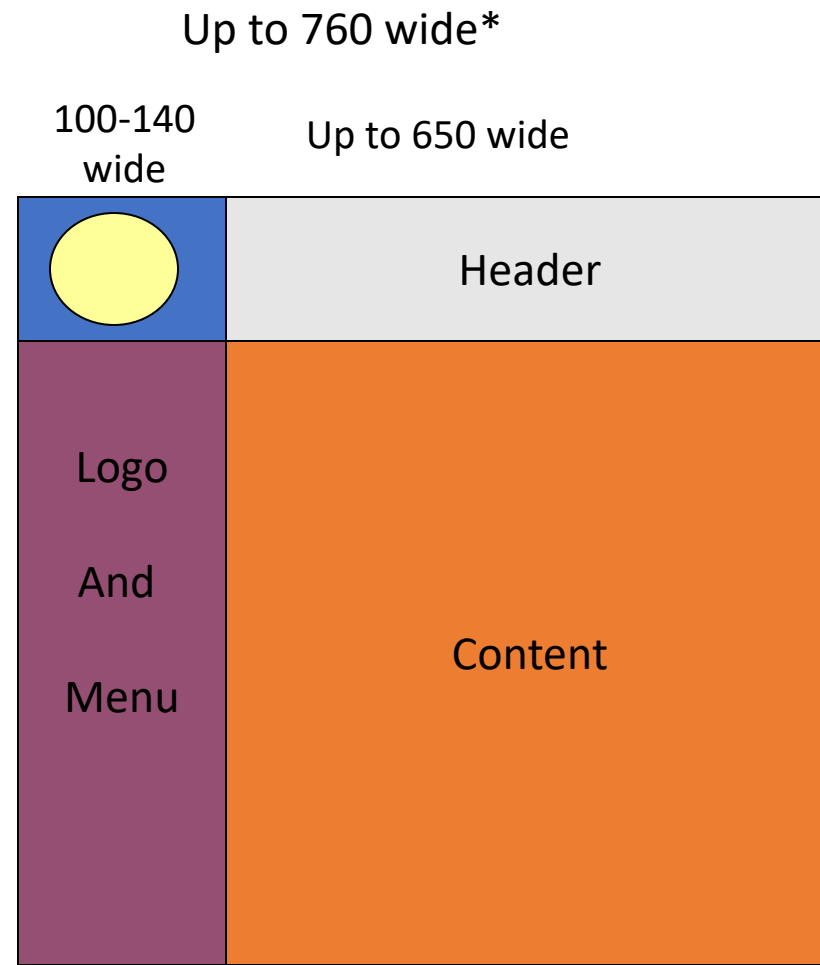
**MLB**  
[Scores](#) | [GameCast](#)

**Men's BB | Tourney**  
[Scores](#)

**Women's BB | Tourney**



# Dimensions in a 2x2 table



# Different Resolutions

- <http://www.dreamink.com/design6.shtml>

# Splash Page

- The index.html file is called the “Splash Page”
- It is the key page—the first page visitors usually see
- Must be visually attractive, informative, and easy to navigate
- Examples:
  - [www.projectpuffin.org](http://www.projectpuffin.org)
  - [www.pmlodge.com](http://www.pmlodge.com)
  - [www.uncommonadv.com](http://www.uncommonadv.com)
  - [www.rainforestandreef.org](http://www.rainforestandreef.org)

# Organizing Information

- Decide what info goes on each page
  - Friends page
  - Family page
  - Personal page
  - Hobbies page

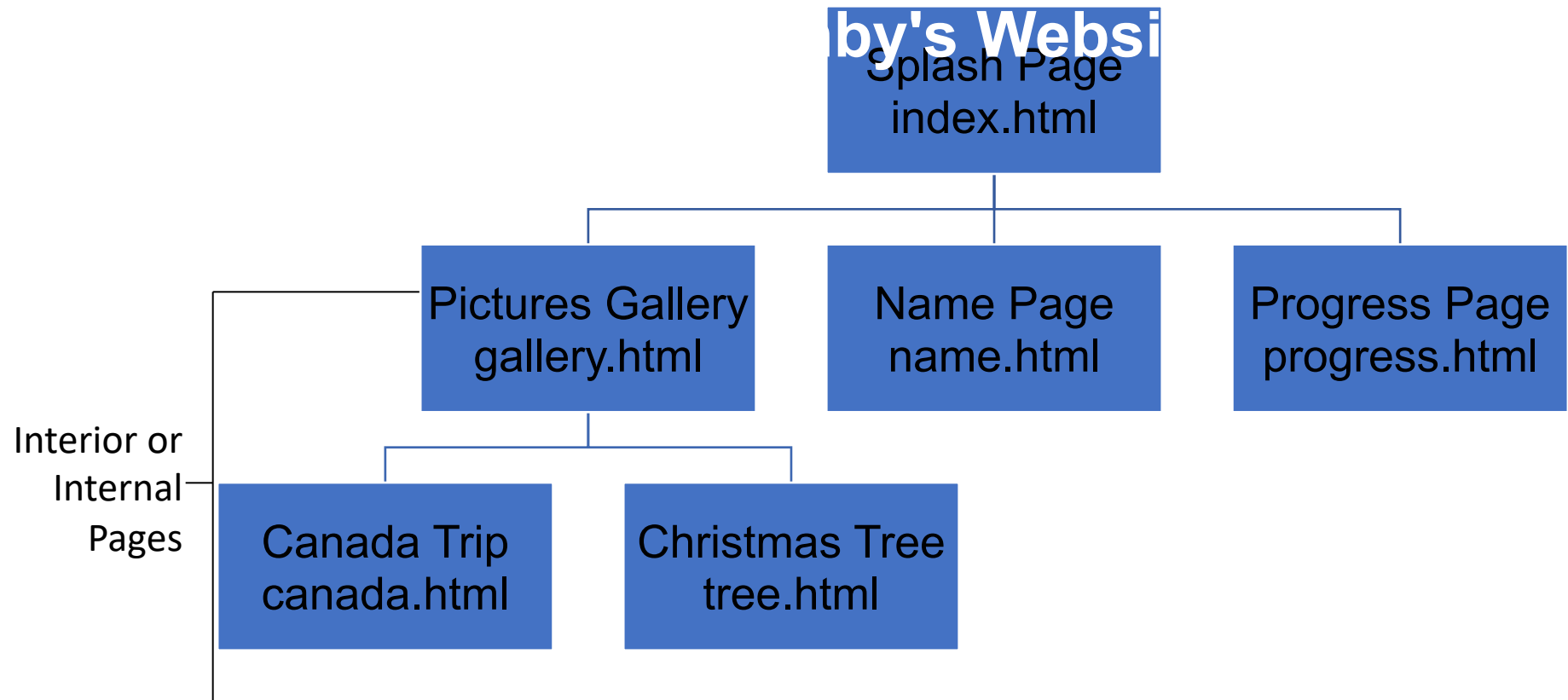
# Good Web Communication

- Be Concise
- Limit choices – use a hierarchical structure
  - A hierarchy is a structured organization where some pages are at a higher level than others
  - Hierarchy results in a site map with multiple levels

# Site Map

- A site map is designed to show the connections between pages
- A graphical site map uses lines to connect linked pages

# Site Map



# Design Theme

- Choose a common layout for your website. The Splash Page will probably differ but interior pages should be the same
- Use tables to control placement throughout



# Consistency in Design

- Use the same font throughout!
- Use consistent graphics in website – do not use ultra modern on one page and calligraphy on another
- Use color scheme that is consistent

# Where to get help on design

- Web Pages for more info

- <http://info.med.yale.edu/caim/manual/contents.html>

- Good places for Graphics

- [www.clipart.com](http://www.clipart.com)
  - <http://free-clip-art.com/>

- Fonts

- <http://www.1001freefonts.com/fontfiles/main.htm>