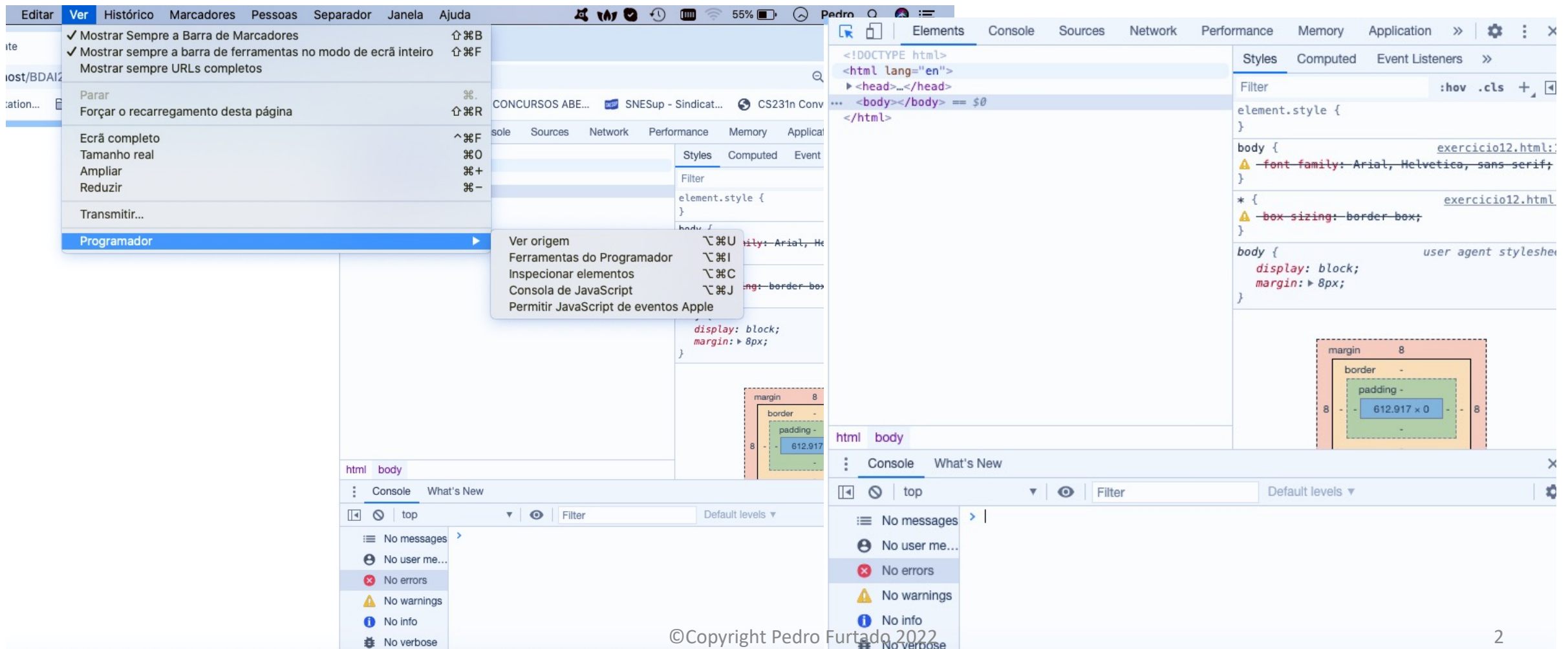


HTML and CSS

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

HTML – Fundamentals

Document Structure

< HTML >

Header

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`

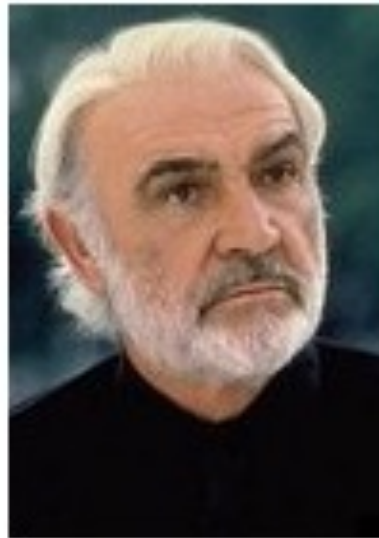
- **URL= universal resource locator: endereço como o exemplo aqui dado...**

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>

Mike Tyler

PO Box 190387

Hungry Horse, Mt 59919

</body>

HTML - Fundamentals

header

<body>

Mike Tyler

PO Box 190387

Hungry Horse, Mt 59919

</body>

HTML - Fundamentals

header

<body>

<p align='center'>

Mike Tyler

PO Box 190387

Hungry Horse, Mt 59919

</p>

</body>

HTML - Fundamentals

header

<body>

<p align='center'>

Mike Tyler

PO Box 190387

Hungry Horse, Mt 59919

</p>

</body>

HTML - Fundamentals

header

<body>

<p align='center'>

Mike Tyler

PO Box 190387

Hungry Horse, Mt 59919

</p>

Read my Bio

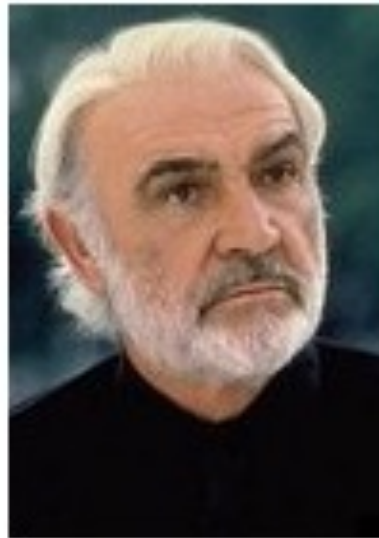
</body>

HTML - Fundamentals

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[Read my Bio](#)

HTML - Fundamentals

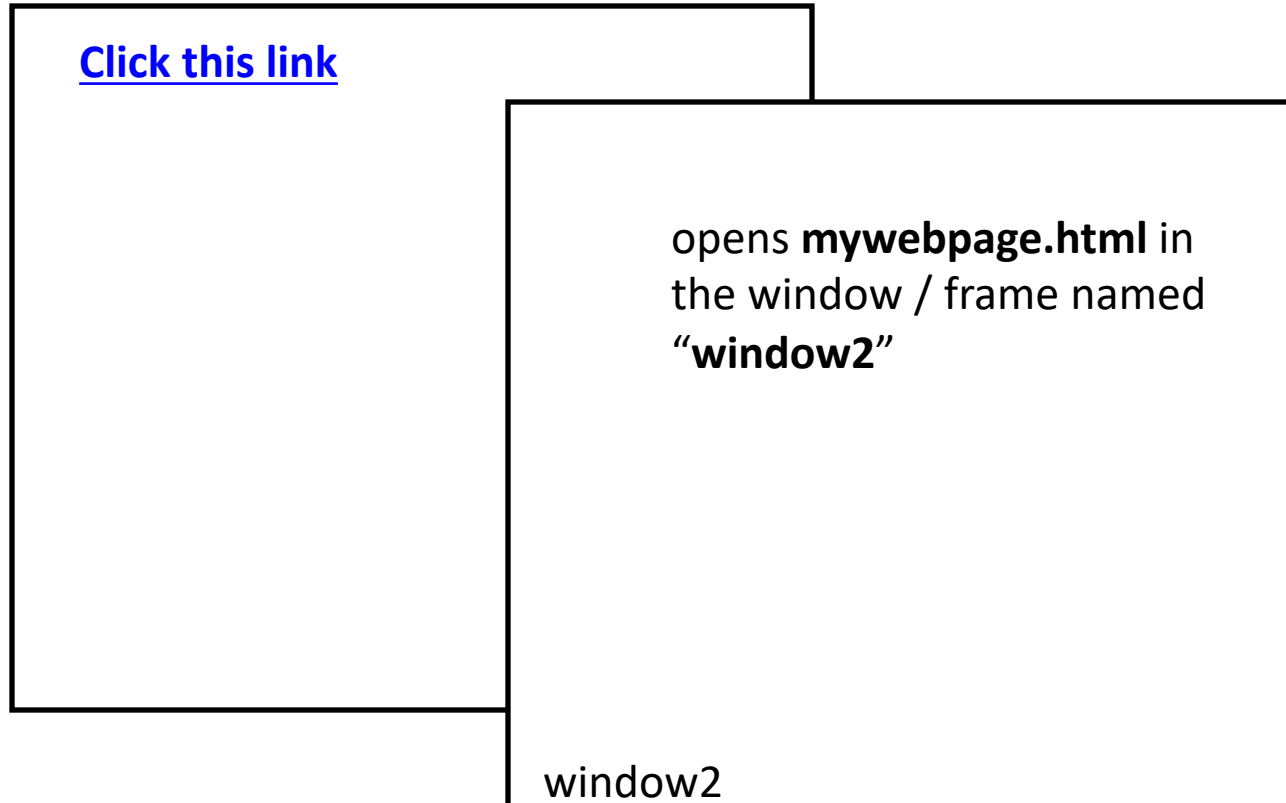
ANCHORS (Hypertext Link)

`Displayed text `

HTML – Fundamentals

Hypertext links

`Click this link `



HTML - Fundamentals

ANCHORS (Hypertext Link)

`Displayed text `

attributes

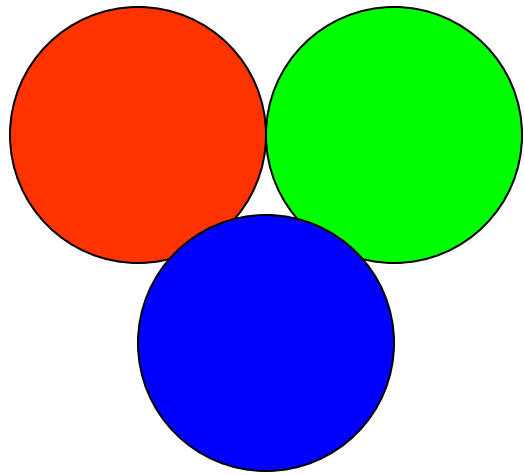
- NAME = "text"
- TITLE = "text"
- TARGET = "frame_name|window_name"

HTML – Fundamentals

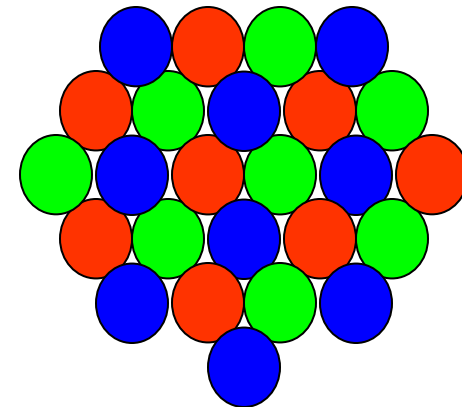
Colors

- Cathode Ray Tubes (CRT)

All colours are obtained from RGB triples



Screens are:



HTML – Fundamentals

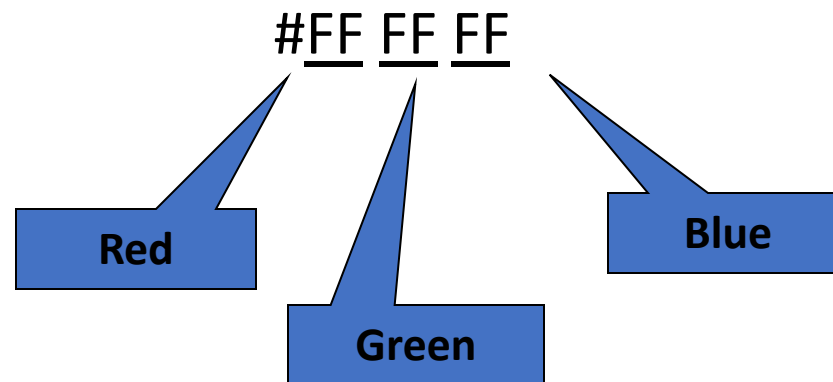
Colors

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

Nome	Função	Departamento
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

[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

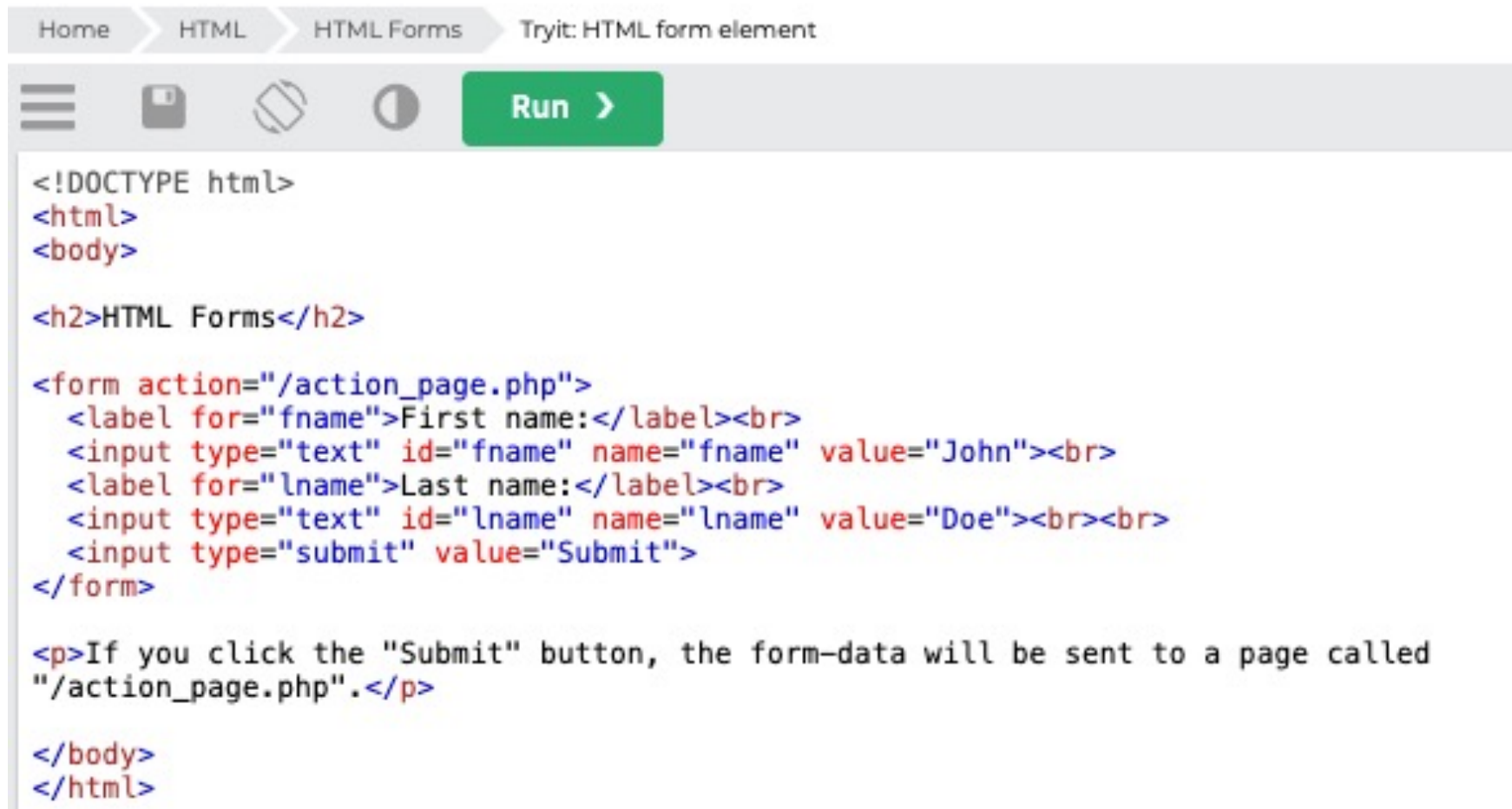
First name:

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



The screenshot shows the W3Schools website's 'HTML Forms' tutorial page. The breadcrumb navigation at the top reads 'Home > HTML > HTML Forms > Tryit: HTML form element'. Below the navigation is a toolbar with icons for a menu, file, copy, and a green 'Run' button. The main content area displays the HTML source code for a form. The code includes a DOCTYPE declaration, a title 'HTML Forms', and a form with two text inputs and a submit button. The first input is labeled 'First name:' with a value of 'John'. The second input is labeled 'Last name:' with a value of 'Doe'. A paragraph below the form explains that clicking the 'Submit' button sends the data to '/action_page.php'.

```
<!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

```
<!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>
```

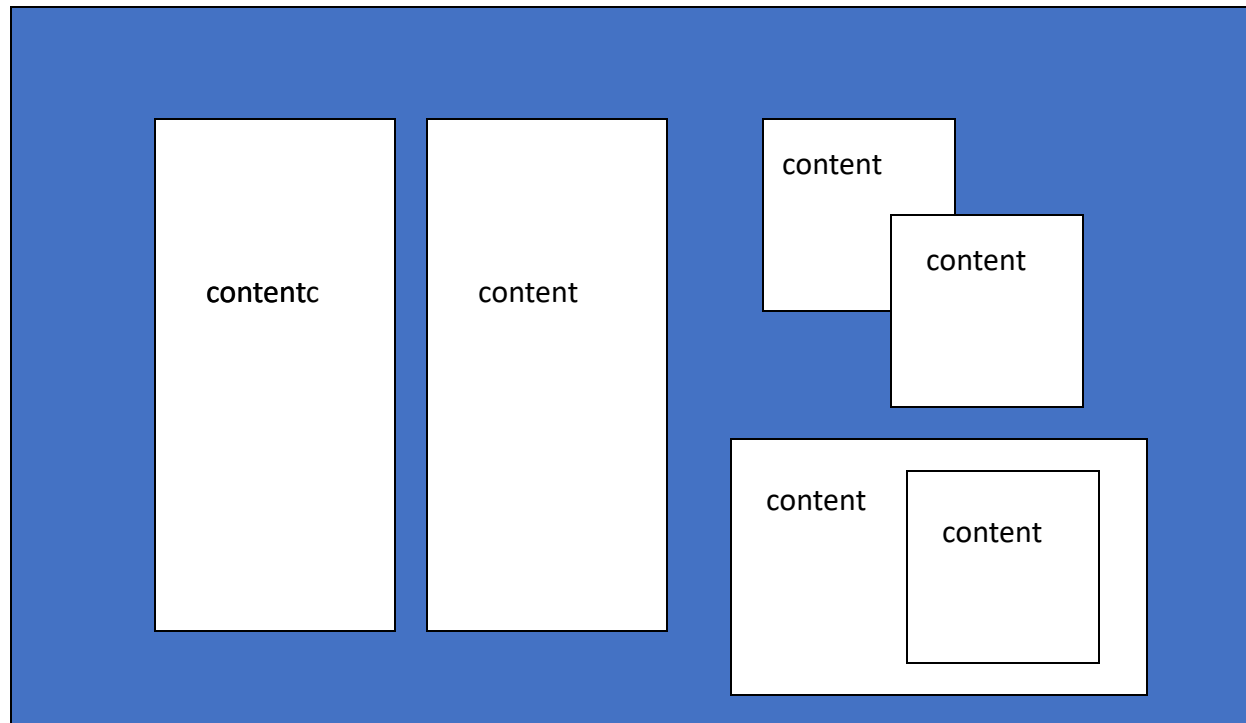
```
<p>If you click the "Submit" button, the form-data will be sent  
to a page called "/action_page.php".</p>
```

```
</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

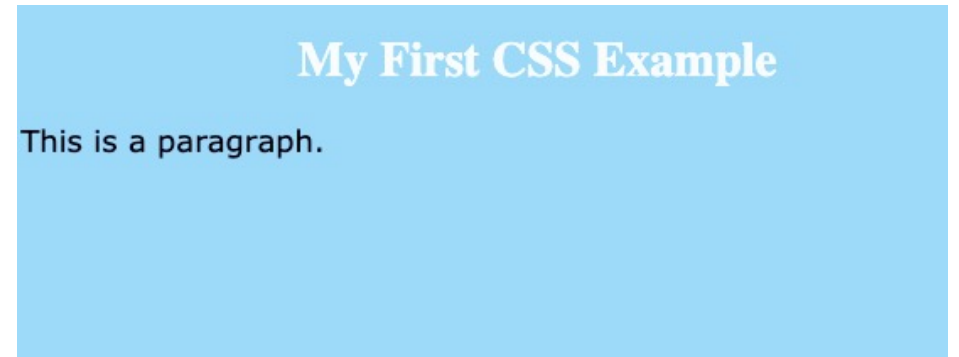
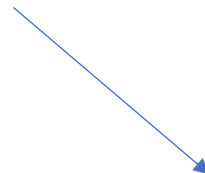
This is a paragraph.

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>
```

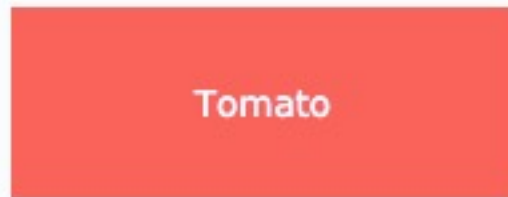


```
body {
  background-color: lightblue;
}

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

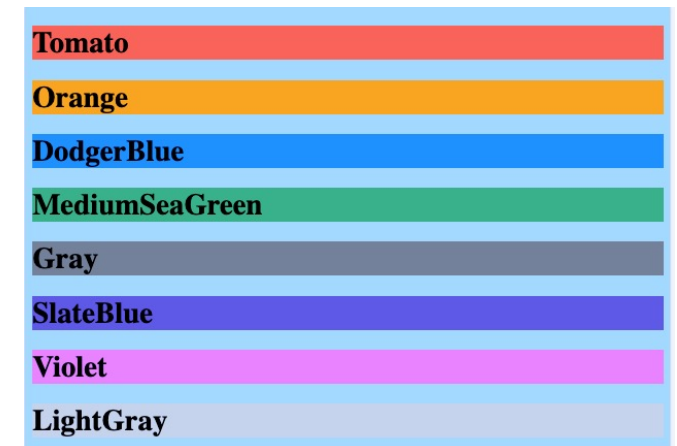
CSS Color Names

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



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>
```

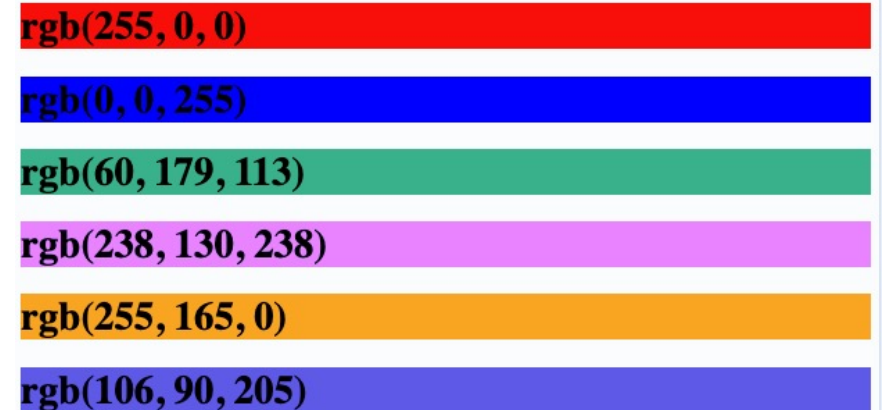
Hello World

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>
```



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



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">

About

Services

Clients

Contact

</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;  
}
```

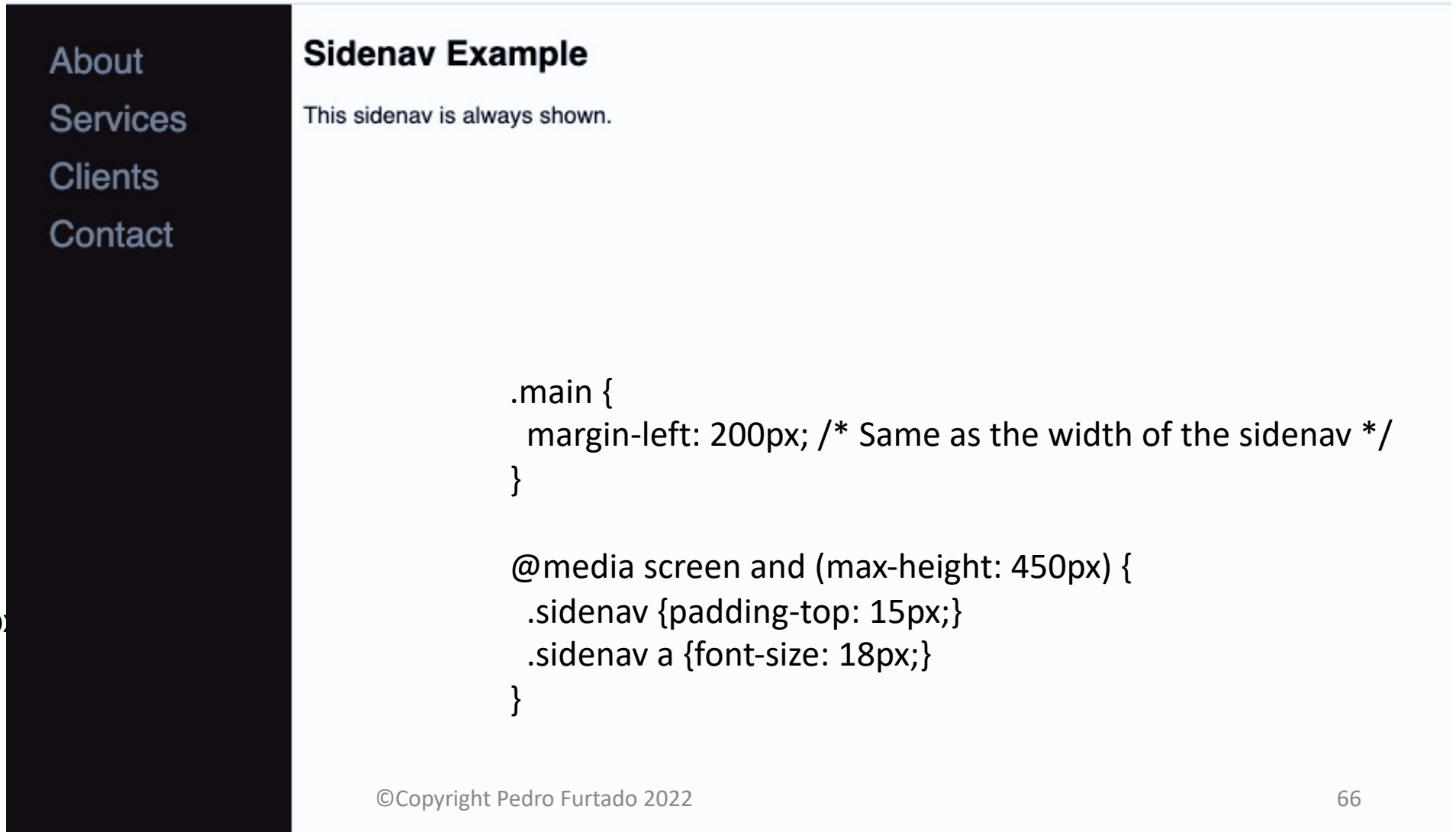
```
.sidenav a: hover {  
  color: #064579;  
}
```

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;  
}
```



```
.main {  
  margin-left: 200px; /* Same as the width of the sidenav */  
}
```

```
@media screen and (max-height: 450px) {  
  .sidenav {padding-top: 15px;}  
  .sidenav a {font-size: 18px;}  
}
```

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

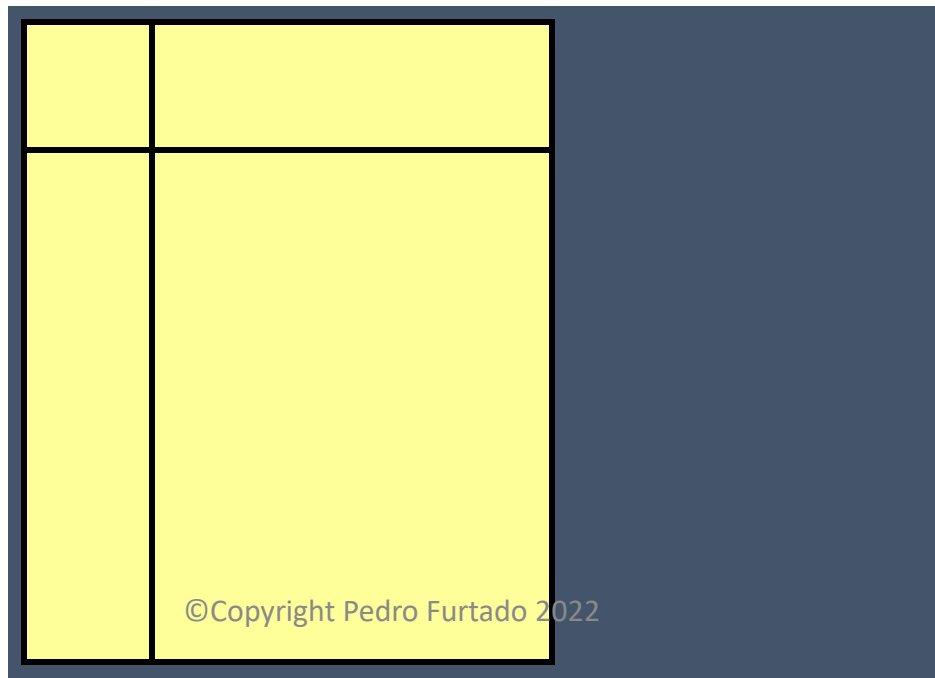
- www.projectpuffin.org
- www.pmlodge.com
- www.uintafishing.com
- www.uncommonadv.com

Web Page Layout

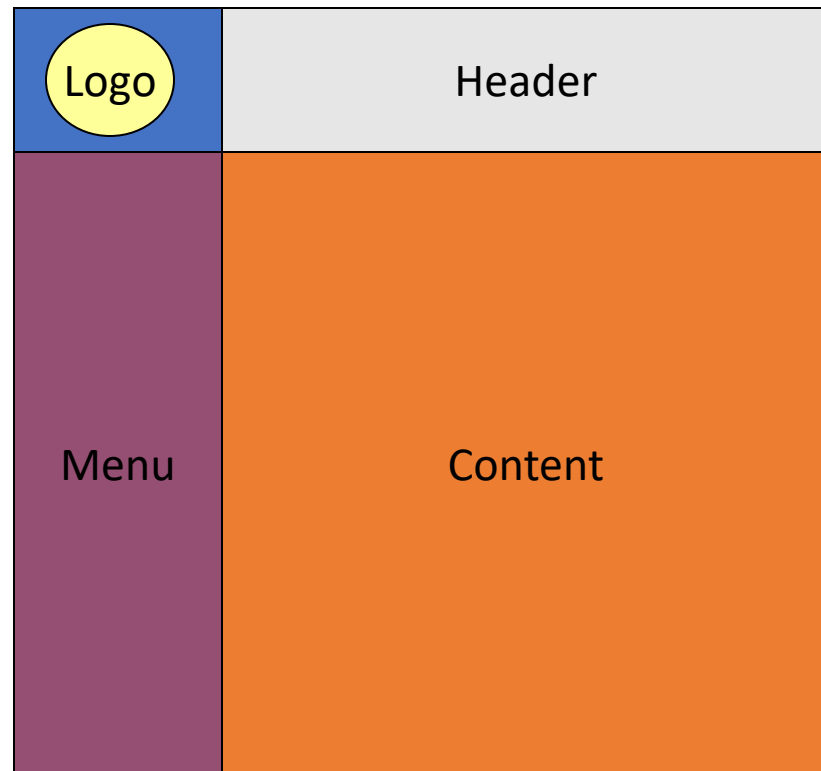
- Layout of web pages is very important
- Poor layout makes for -
 - Difficult navigation
 - Hard to locate information on page
 - Visually unappealing

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 (menu on right)
- www.uintafishing.com (many columns)

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\$900 M
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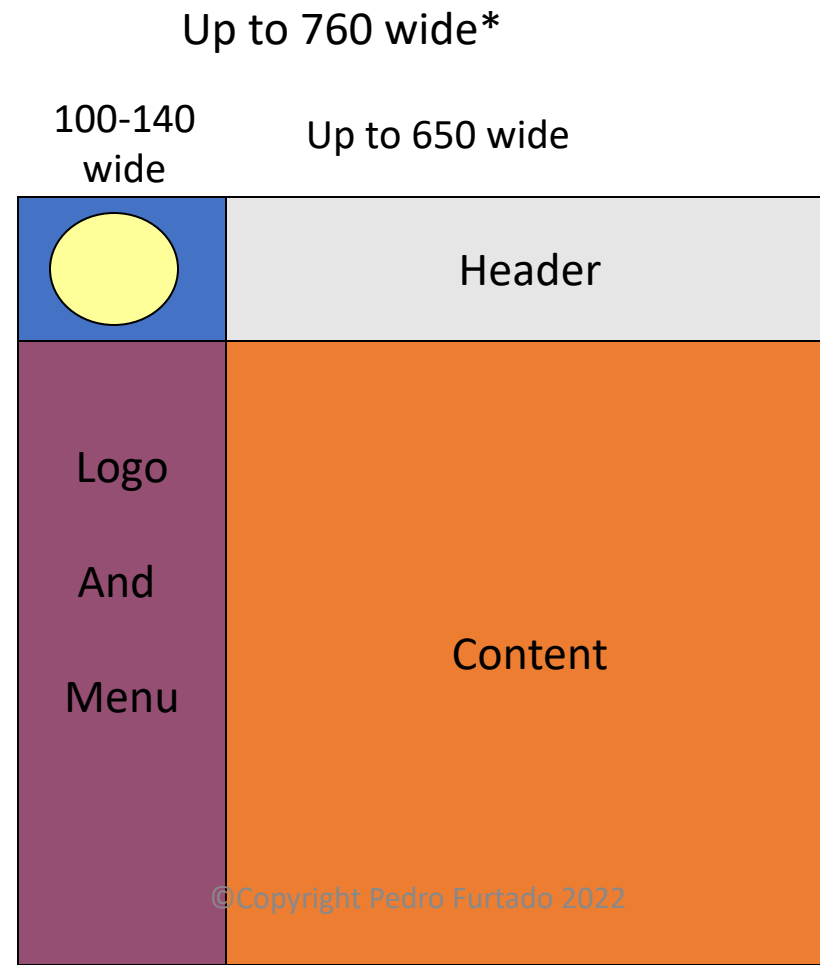
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Dimensions in a 2x2 table



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
 - www.pmlodge.com
 - www.uncommonadv.com
 - www.rainforestandreef.org

Organizing Information

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

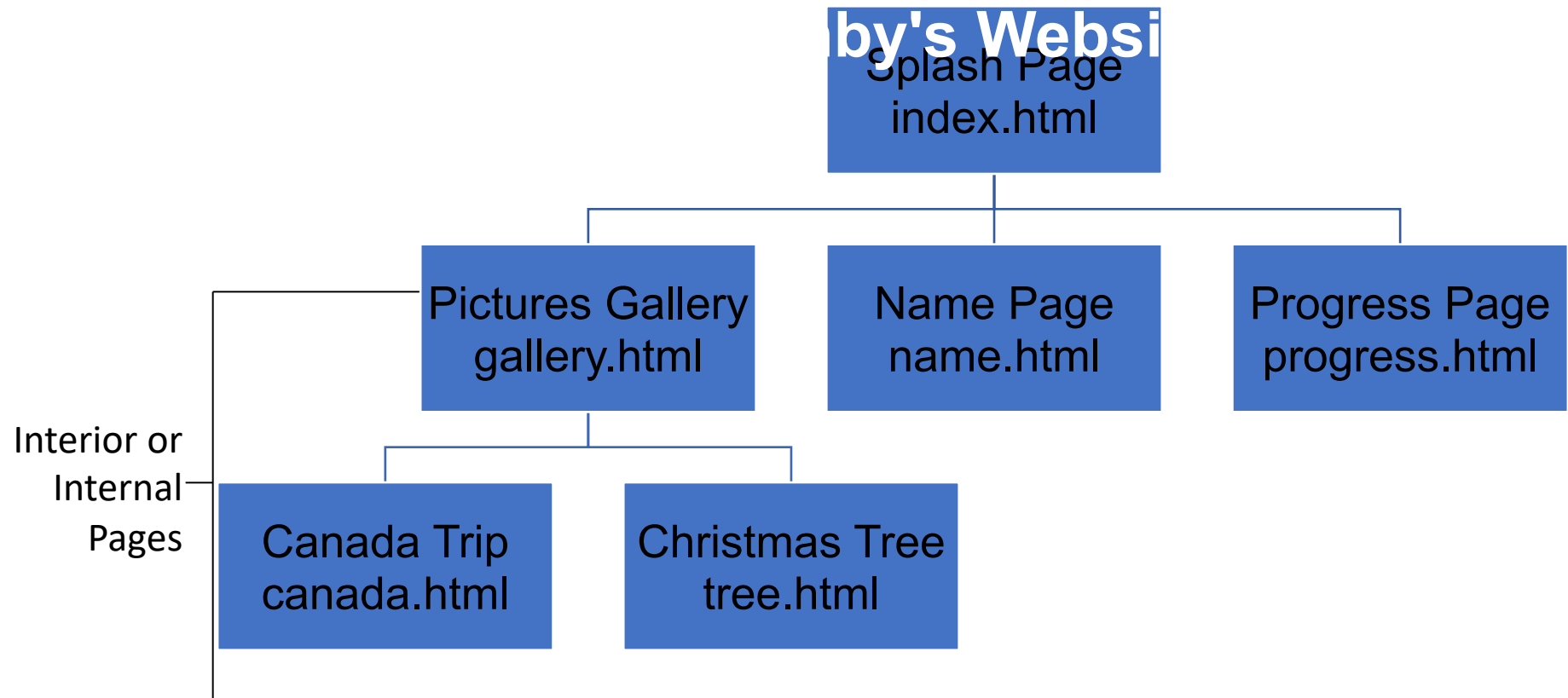
Good Web Communication

- 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://free-clip-art.com/>
- Fonts
 - <http://www.1001freefonts.com/fontfiles/main.htm>