A web page (HTML document) is a text file that can be created using a simple text editor. For the tutorials we will be using Notepad which is available on all systems running Windows.

* In the labs, double click on the *Notepad* icon on the desktop
* On systems other than the university, select *Start/Programs/Accessories/Notepad*

To create the [sample web page](https://learn.jcu.edu.au/bbcswebdav/pid-1561397-dt-content-rid-1522141_1/courses/14-CP1030-SIN-INT-SP52/14-CP1030-SIN-INT-SP51_ImportedContent_20140110091652/LearnJCU_EXT_Website/Pracs/Web_design/prac_example.html) enter the red HTML text below into notepad.  
Save the html document after adding each set of red text and view in browser window (remember to use the refresh button on the browser toolbar). This will help you to understand more fully how each set of tags is interpreted by the (HTML) Browser Application.

**HTML Document Format**

The html document is defined within the <html> ... </html> tags. Within these tags there are two sections:

* the ***head*** which contains data within the <head> ... </head> tags that is not displayed on the page
* the ***body*** of the page which is contained within the <body> ... </body> tags

**Title <title> </title>**

The title is contained within the head section and is displayed on the window bar at the top of the browser and not on the page itself

**Headings <hn> </hn>**

There are 6 heading sizes from h1 (largest) to h6 (smallest).

**Creating a HTML Document Using Notepad**

A web page (HTML document) is a text file that can be created using a simple text editor. For the tutorials we will be using Notepad which is available on all systems running Windows.

To open “Notepad”

* ***→*** click on the ***Start menu on the desk top***
  + - * ***→ all programs***
        + ***→ Select accessories.***

***→ Select notepad***

* On systems other than the university, select ***Start/Programs/Accessories/Notepad***

To create your first web page enter the following code into notepad

**Beginning the Document**

Type the code below into Notepad to create the framework for the web page (***do not cut and paste***).

**<!doctype html>**

**<html>  
<head>  
<title> Sample HTML Code </title>  
</head>  
  
<body>  
  
<h1> Dolphins </h1>  
  
</body>  
</html>**

*Save the html document****htmlcode.html*** *after adding each set of red text and view in browser window (remember to use the refresh button on the browser toolbar). This will help you to understand more fully how each set of tags is interpreted by the (HTML) Browser Application.*

To view the page it must be saved to a file and then opened in a browser.

* Select ***Save As***
* **IMPORTANT** : In ***Save as type*** at the bottom of the window select ***All Files (\*.\****)
* Save the file as ***htmlcode.html*** (remember no spaces or capitals)
* Use ***Alt+Tab*** to change to the desktop
* Open a browser*window****(FireFox or Microsoft internet explorer)***
* Select ***File/Open Pag***e
* Click the ***Choose File*** button
* Use the ***Look in*** drop down menu to locate and change to where saved ***htmlcode.html***
* Double click on the file you just saved: ***htmlcode.html*** to open it in the browser

**Note** The file type must be changed to ***All Files (\*.\****) when re-opening the document or the file will not appear in the file list.

**Centering an Image or Text <div align="center"> </div>**

Use ***Alt+Tab*** to change to Notepad. Note that all additions to the code must be ABOVE the </body> tag.

Center the heading by adding the <div align=center> </div > tags above and below the heading.  
NOTE: American spelling for Color and Center whenever they are used in HTML tags.

**<div align="center">  
<h1> Dolphins </h1>  
</div >**

To view changes to the file you must save the file and refresh the page in the browser.

* Select ***File/Save***
* Use ***Alt+Tab*** to change to the browser
* Click the ***Reload*** button (Refresh on Explorer)

**Inserting an Image <img>**

The image file to be displayed is defined using the src="image file name" parameter within the image tag. The parameter border="0" stops the browser from drawing a border around the image.

**<div align="center">  
<img src="images/dolphin.gif" border="0" alt="dolphin">  
</div>**

The image file is included in the folder you downloaded.

**Entering the Body Text**

Enter the body text below into your document (you can cut and paste this section into Notepad, after you do this you should delete and retype the quotation marks around center in the div tag)

**<p>  
<div align="center">**  
**The night is dark, the sky is clear  
I sit on the beach, no bodies here.  
I watch the waves, as they crash on the sand  
While I sit up here on the land.  
  
The breeze is blowing, its making me cold  
The silver moon, makes the sand gold.  
The waves are deafening as they crash on the shore  
I wonder why the dolphins, don’t come here anymore.  
</div >  
</p>**

If you copy and paste the above text remember to delete and retype the quotation marks (") and apostrophes (') as these may cause the HTML document to not read/display correctly

**Line Breaks <br/> and Paragraph Breaks <p>**

If you preview the page the text will be displayed on a single line. You can force a line break use the <br/> tag (which does not have a pair). To force a paragraph break, which includes a blank line, use the <p> tag.

Note that the <p> tag can be used alone or as a pair: ie <p> paragraph text </p>

* Put a <br/> at the end of the first three lines of each paragraph in the poem
* Put a <p> at the beginning and a </p> at the end of each paragraph

Save the file and view it to check the effect.

**Rulers <hr/>**

Rulers are horizontal lines or bars that divide the page

**<hr/>**

Enter the ruler tag above and then view the page. Modify the tag to include the width parameter below (set the width of the line to 50% of the page width)

**<hr width="50%"/>**

Enter the heading, image and a ruler below to complete the section.

**<div align="center">  
<h1> Sea Horses </h1>  
</div>  
  
<div align="center">  
<img src=" images/seahorses.gif" border="0" alt="seahorses" >  
</div>  
  
<p>  
<hr width="50%"/>**

The image file is included in the folder you downloaded.

**Font Styles - Bold <b> </b>, Italic <i> </i> and Underline <u> </u>**

Fonts may be set to bold, italic or underline.

**<b><u> Image Galleries </u></b>**

*HTML tags should cascade in and out in the same order.  
In the case above <b><u>Image Galleries</b></u> would be considered poor form.*

**Unordered List - Bullets <ul> </ul> and <li> </li>**

A bulleted list may be created using the unordered list tag. The entire list is contained within the <ul> </ul> tags and each bulleted entry is contained within the list tags <li> </li>

**<ul>**  
**<li> Cybernettix </li>**  
**<li> Clipart.com </li>**  
**</ul>**

**Links**

A link is defined using the <a> </a> tag which has two sections. The URL is defined in the href parameter of the <a> tag and the link text or image is placed between the tags.

**<a href= "destination URL here">** text (or image) for link here **</a>**

Change the code above for the bulleted list to the code below to change the text into links.

**<li> <a href="http://www.cybernettix.vuurwerk.nl"> Cybernettix </a> </li>  
        <li> <a href="http://www.clipart.com"> Clipart.com </a> </li>**

**Image Ruler**

There are many rulers available on the web that are images. Because it is an image and not a ruler it will not automatically center so the div tag using align=center needs to be added.

**<div align="center">  
<img src=" images/kilroy.gif">  
</div >**

add the following attributes to the img tag: **width="90%" alt="Kilroy" border="0"**

**Ordered List - Numbered <ol> </ol>**

A numbered list can be created using an ordered list which automatically numbers each entry.

**<b><i> Index </i></b>  
<ol>  
        <li> <a href="#dolphins"> Dolphins </a> </li>  
        <li> <a href="#seahorses"> Sea Horses </li>  
</ol>**

**Bookmark or Target**

The code above has a URL which refers to a bookmark or target, which is a link destination defined within the page.link to that bookmark is <a href="dolphins">

**Defining the Bookmark**

The bookmark is defined at the specific destination point in the document.

For the above links to work we must define the relevant bookmarks at the Dolphin heading and at the Sea Horse headings

**<a name="dolphins"></a>**  
**<h1> Dolphins </h1>**

and also

**<a name="seahorses"></a>**  
**<h1> Sea Horses </h1>**

Preview the document and see if the links take you to back to each of the sections.

**Navigation Bar**

A simple navigation bar can be created using text and the | character as a divider.

JCU | Email me

**Mailto**

A link with a URL containing mailto and an email address ( **"mailto:Jim.Beam@jcu.edu.au"** ) will open the default email program with the email

address in the "To" field of the email.

**<p>**  
**<div align="center">**  
**<a href="http://www.jcu.edu.au"> JCU </a> | <a href="mailto:Jim.Beam@.jcu.edu.au"> Email me  </a>  
</div >**

**Setting Text and Background Colors**

The background color, background image, default body text and link text colors are set using parameters in the <body> tag.

**NOTE:** There can only be ONE <body> tag so place any additional parameters into the existing tag

The following settings may be included in the body tag to change the text and link colors

* **bgcolor="white" or bgcolor="#ffffff"** : the background colour (white)
* **text="black": or text="#000000"** : the colour of the text (black)
* **link="blue" or link="#0000ff"** : the colour of the links (bright blue)
* **vlink=green or vlink="#00ff00"** : the colour of the visited links (bright green)
* **alink="red" or alink="#ff0000"** : the colour of the active links (bright red)

Colors may be defined using the 16 predefined colors as outlined in the lecture or as a hexadecimal numbers representing the quantities of Red, Blue and Green in the color.

**<body bgcolor="yellow" text="black" link="#0000ff" vlink="#008000" alink="#ff0000">**

**Background images**

In the <body> tag you can place an additional entry for the background image (or wallpaper). If a background color and a background image are defined the background color will only be visible until the image loads.

**<body background="images/jigsaw.jpg" bgcolor="yellow" text="black" link="#0000ff" vlink="#008000" alink="#ff0000">**

 Save the background image below as jigsaw.jpg and enter the code above to complete the web page. The image file is included in the folder you downloaded.

It is a good idea to set the bgcolr attribute of a web document to match fairly closely the background image used for the web document. This is especially important if the image used necessitates the use of a non-standard text colour.

**Note:** When re-opening your HTML document in Notepad

Select ***File/Open***

* Your html file will not be in the Open Window

Select ***Files of Type*** - ***All Files (\*.\*)***

* All file types will now be displayed  in the file list including .htm and .html files.