# 1. Working with text

## Structure

Many webpages act like electronic versions of documents such as Newspapers.

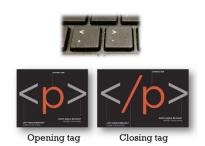
Think about the stories you read in a newspaper: for each story, there will be a headline, some text, and possibly some images. If the article is a long piece, there may be subheadings that split the story into separate sections or quotes from those involved. Structure helps readers understand the stories in the newspaper.

**Structure** is a way to build a webpage to make it easier for the reader to understand what he is reading. HTML code describes the structure of webpages.



# The HTML code

The HTML code is made up of characters that live inside angled brackets which are called HTML



**elements**. Elements are usually made up of two **tags:** an opening tag and a closing tag.

Each HTML element tells the browser something about the information that sits between its opening and closing tags.

# **Basic HTML elements**

The basics HTML elements are:

- 1. The opening **<html>** tag element indicates that anything between it and a closing **</html>** tag is HTML code
- 2. A <head> element contains information about the page such as title
- The contents of the <title> element are either shown in the top of the browser, above where
  you usually type in the URL of the page you want to visit, or on the tab for that page (if your
  browser uses tabs to allow you to view multiple pages at the same time).
- 4. The **<body>** tag indicates that anything between it and the closing tag **</body>** should be inside the main browser window.
- 5. A paragraph of text appears between these and tags.

# Headings elements

HTML has six levels of headings:

- <h1>is used for main headings
- <h2> is used for subheadings.
- If there are further sections under the subheadings then the <h3>element is used, and so on...

# Exercises 1) Creating your first webpage

The HTML code can be written in a text editor such as notepad, notepad++, or Atom.

Open a new file in a text editor Atom and save the file as *first\_webpage.html* 

Write a HTML code that will result in the following webpage. The webpage head title is "Title by: Student's name"

Display



**HTML** 

# More elements

#### Bold

By enclosing words in the tags **<b>** and **</b>** we can make characters appear bold.

# **Example**

## Italic

By enclosing words in the tags <i> and </i> we can make characters appear italic.

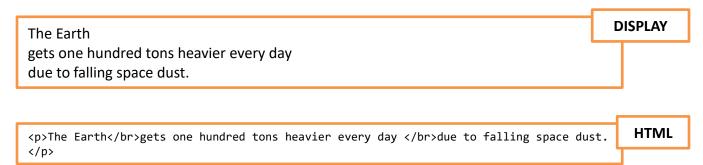
## **Example**

My cousin is reading *The Adventures of Tom Sawyer* for two classes: *English* and *Histor*My cousin is reading <i>The Adventures of Tom Sawyer</i> for two classes:
HTML
<i><i><i><b> English </i></b> and <i><i><b> History</b></i>

#### Line Breaks

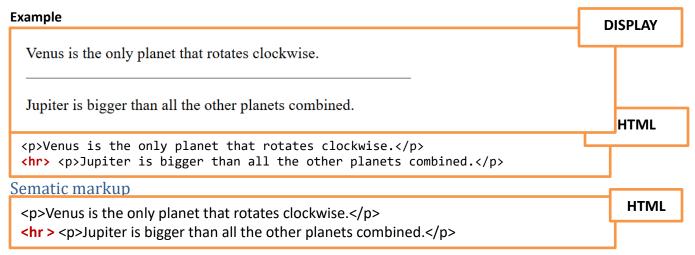
The browser will automatically show each new paragraph or heading on a new line. But if you wanted to add a line break inside the middle of a paragraph you can use the line break tag **<br/>br/>** 

## **Example**



#### Horizontal Rules

To create a break between themes — such as a change of topic in a book or a new scene in a play — you can add a horizontal rule between sections using the <hr/>>



# Strong

The use of the **<strong>** element indicates that its content has strong importance

#### Example

Beware: Pickpockets operate in this area.

This toy has many small pieces and is not suitable for children under five years old.

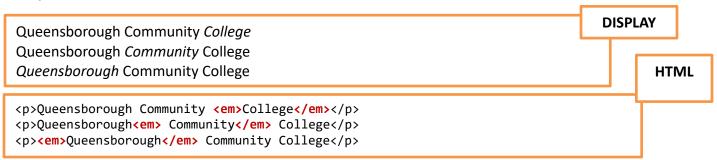
HTML

<<strong>Beware:</strong> Pickpockets operate in this area.
This toy has many small pieces and is <strong>not suitable for children under five years old. </strong>

The **<em>** element indicates emphasis that subtly changes the meaning of a sentence.

By default, browsers will show the contents of an <em> element in italic.

#### Example



#### Abbreviations and Acronyms

If you use an abbreviation or an acronym, then the <abbr> element can be used. A title attribute on the

opening tag is used to specify the full term.

## Example

Display

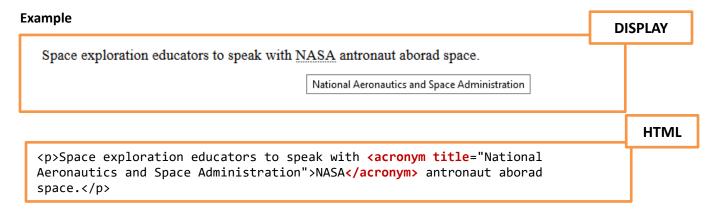
Demystifying the Mystery: QCC Physics professor addresses "Ripples in Space-Time".

Queensborough Community College

HTML

Poemystifying the Mystery: <abbr title="Queensborough Community College">QCC </abbr>Physics professor addresses "Ripples in Space-Time".

In HTML 4 there was a separate **<acronym>**element for acronyms. To spell out the full form of the acronym, the title attribute was used (as with the <abbr> element above). HTML5 just uses the <abbr> element for both abbreviations and acronyms.



## Strikethrough

Strikethought means to cross something out by drawing a line through it.

The **<s>** element indicates something that is no longer accurate or relevant (but that should not be deleted).

Visually the content of an <s> element will usually be displayed with a line through the center.

Example	DISPLAY
Laptop computer:	
<del>Was \$995</del>	
Now only \$375	

Laptop computer: <s>Was \$995</s> Now only \$375

# **Class Activity**

Create a webpage named textActivity.html.

In the webpage textActivity\_StudentLastName.html, using the different elements of HTML text, you are doing to format the following paragraph:

How can two income couples manage their cash flow without just lumping everything together? I feel like everyone I talk to has some convoluted system of accounts and credit cards or complete chaos. In either case, they are probably letting too much money sit in an account that earns very little return, they are over drafting that account, or they have to spend hours and hours tracking individual expenditures. There must be a better way to leverage apps and automation, but the big budgeting apps don't really have this feature.

The final result will look like this:

# Week 1 - Class Activity: Use of Text in HTML

How can two income couples manage their cash flow without just lumping everything together? I feel like everyone I talk to has some convoluted system of accounts and credit cards or complete chaos. In either case, they are probably letting too much money sit in an account that earns very little return, they are over drafting that account, or they have to spend hours and hours tracking individual expenditures.

There must be a better way to leverage apps and automation, but the big budgeting apps don't really have this feature. Be careful with the <u>IRS!</u>

Internal Revenue Service

# 2. Working with lists in HTML

There are lots of occasions when we need to use lists. HTML provides us with three different types: Ordered lists, unordered lists, definition lists.

## Ordered listed

Ordered lists are lists where each item in the list is numbered. For example, the list might be a set of steps for a recipe that must be performed in order, or a legal contract where each point needs to be identified by a section number.

The ordered list is created with the element.

Each item in the list is placed between an opening tag and a closing tag. (The li stands for list item.)

How to make brownies:

1. Preheat oven to 350 degrees F. Grease and flour an 8-inch square pan
2. In a large saucepan, melt 1/2 cup butter.
3. Bake in preheated oven for 25 to 30 minutes.

(p>How to make brownies:

(o1>

(li>Preheat oven to 350 degrees F. Grease and flour an 8-inch square pan
(li>In a large saucepan, melt 1/2 cup butter. 
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# Ordered List - "type" attribute

Attributes provide additional information about HTML elements.

The **type** attribute of the tag, defines the type of the list item marker. Attributes provide additional information about HTML elements.

Туре	Description
type="1"	The list items will be numbered with numbers (default)
type="A"	The list items will be numbered with uppercase letters
type="a"	The list items will be numbered with lowercase letters

type="I"	The list items will be numbered with uppercase roman number	pers
type="i"	The list items will be numbered with lowercase roman numb	pers
		DISPLAY
Ordered List	with Letters	
A. Coffee B. Tea C. Milk		
	: with Letters	HTML
<pre><ol type="A">    <li>Coffee</li>    <li>Tea</li>    <li>Milk</li> </ol></pre>	>	

# Online Tutorial:

https://www.w3schools.com/html/default.asp