



# Everything you need to know to make a webpage /

### What is HTML?

- HTML stands for Hypertext Markup Language
- It is a language that lets you make web pages
- HTML includes instructions that make your text and pictures appear on the page in whatever way you want



#### Web Pages

### Here's an example of a web page that was created entirely with HTML:

Welcome to MSN.com - N	1icrosoft Internet Explorer			
ile Edit View Favorites				
🌏 Back 👻 💮 👻 💌	💈 🏠 🔎 Search 🤺 Favorites 🍳	🎙 Media 🥝 🔗 🦣 🖬 🔹 📙		
ddress 🥘 http://www.msn./	com/			
			Help	
	MSN Home My MSN	Sign In <sub>net</sub>	Monday, Jun 24	
MSN Home   My MSN   Hotmail   Search   Shopping   Money   People & Chat				
Search the Web: Search Free cell phone .				
Search the web.		Search	Free cell phone - Unlimited night &	
Hate your roommate? 5 w	rays to bury the hatchet	Vote only online.	weekend minutes	
	Today on MSN	Strictly Business	MSN Channels	
Send a 'consider	Internet blackr		Autos	
yourself flamed' e-card	How school by     Monster' \$10k		Business	
Fitness guru's weight	Monster \$104     New buzz for V		Careers City Guides	
loss & workout taboos	Don't	Ignore stock slumps?	Entertainment	
Get a Free Cell Phone	Be Fuelish Beat the clock	Time for a change	Games	
Free Nights, Weekends	Will Sampras		21 Blitz, Slots Health	
Find	Spend less on gas Why our hair tu How AIC & fast-food drive		House & Home	
Air Tickets	How A/C & fast-food drive- thrus hurt your mileage	ing early wardrobe outdated?	Kids	
	Booth buzz: Ways to make trade shows p		Learning & Research Love & Relationships	
Auto Price Quotes	<ul> <li>Dryers to faucets: Fix-it guide for househo</li> </ul>		Music & Radio	
Buy Books Buy CDs & DVDs	MSN Top Headlines more	CNBC on MSN Money more	News	
Find a Job	MSNBC News	Stock Quotes	Slate magazine Sports by 📻 🛺	
Hotel Deals from \$39	<ul> <li>Court: Only juries can decide death</li> </ul>	Datek   Ameritrade   ShareBuilder	2002 World Cup	
Internet Access Specials Old Friends	<ul> <li>Desperate bid to save Ariz. town</li> </ul>	TD Waterhouse   Trade Now	Tech & Gadgets	
Personals	<ul> <li>Newsweek: Martha Stewart's mess</li> </ul>	Name Last Change % Chg	Travel Women	
White Pages Yellow Pages	Slate: Opinion & Commentary	Dow 9,281.82 + +28.03 +0.30%	My MSN	
40% off hot cookbooks	<ul> <li>Stephanopoulos Biased? Let's Hope So</li> </ul>	Nasdaq 1,460.34 - +19.38 +1.34%		
More		S&P 992.72 + +3.58 +0.36%	Visit My MSN to get your Hotmail, stock quotes,	
	ESPN Sports <ul> <li>Initial autopsy finding: artery hardening</li> </ul>	Quotes by S&P, 20 min. delay Update	local weather and more!	
Explore	likely killed Cards' Kile	Get Quote Go	Go to My MSN	
Bed & Bath \$39.99 Buy Flowers	<ul> <li>Agassi opens Wimbledon in style</li> <li>Jordan mulls return in reserve role</li> </ul>	Market Report   News   Top 10 Lists		
Downloads			Spotlight	
Find Contractors Get an Apartment	MSN Shopping more	MSN Specials more	How to go from \$0 to \$1M	
Go Mobile	What's Hot Right Now	Great escapes	in a year	
Greeting Cards	• TV Photoviewer \$79!     • Dell: Great upgrade offer	How to live in Paris for cheap: Find out the new vacation	Featured Today	
Health Insurance Quotes Horoscopes	Travel in safety and style	trend	eHarlequin.com	
Maps & Directions	40% off Personal Laser Printer for	Check this out	enanequincom	
Send Money	Weber's only \$97.99	<ul> <li>10 fun (and cheap) family activities</li> </ul>	Articles, advice, games,	
Used Car Deals Weather	grilling • Heart-shaped pendants cookbook starting at \$70	Tablet PCs: next hot biz tech toy?	quizzes and more to help you enhance your	
More	-	This week on MSN	romance	
	Today's Sales & Deals	<ul> <li>Sick of being single: Find your 'Match'</li> </ul>	*	
Play	Incredible New Deals! Up to 76% Off	Live on less: 'starving student' tips	ADD eHarlequin.com to My MSN Page	
	Luxury Sheet Sets as low as \$29.99		to my month ago	
Be a Movie Critic Broadband Access	MSN Links & Resources	more	MSN Worldwide	



### Tags

Instructions in HTML are called TAGS. This is the format for writing a TAG:

When you want your instruction to start to take
 effect

#### <INSTRUCTION>

When you want to discontinue this instruction you use an END TAG

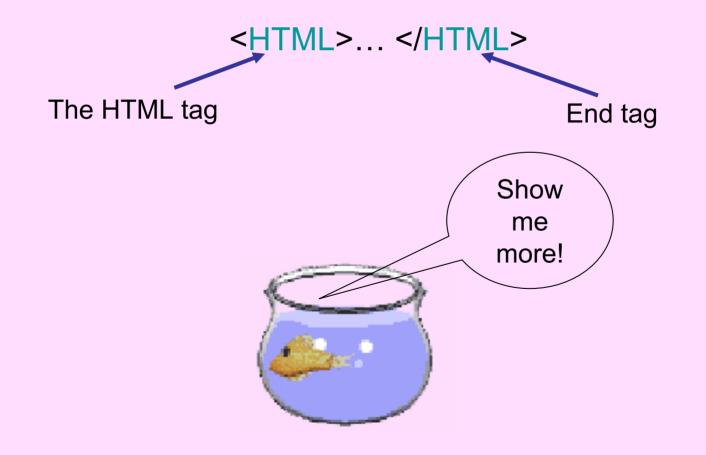
#### </INSTRUCTION>



**NOTE**: This is the preferred format. In reality, not every TAG needs an END TAG!

# The HTML Tag

Every HTML file begins with the HTML Tag. This tag tells the web browser that the page is written in HTML so it will know how to display it.



# What every page looks like:

#### <HTML>

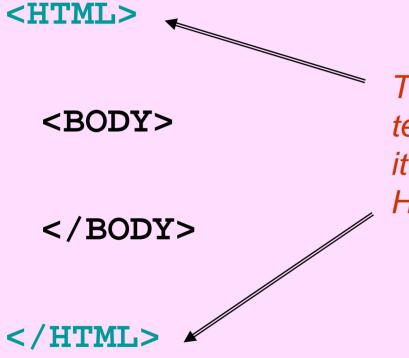
<BODY>

</BODY>





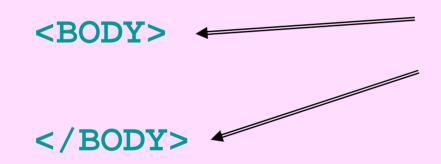
# What every page looks like:



Tags around all your code telling the computer that it should read this page as HTML

# What every page looks like:

#### <HTML>



All your code that will show up on the page goes between the BODY tags



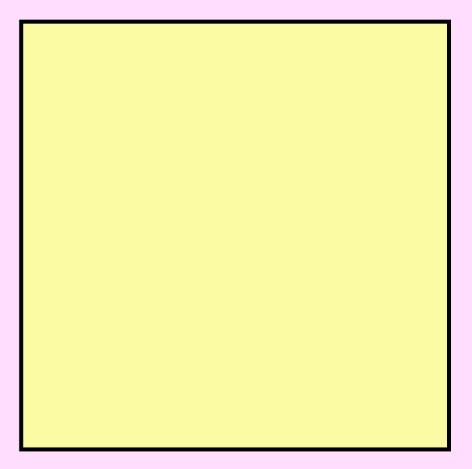
#### **1**

#### Attributes and Values

Some tags can have more than just their names in them.

Tags can also have attributes!

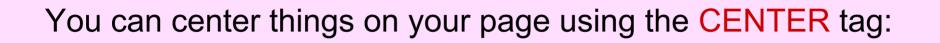
Every attribute you want to change is assigned a value.



### Layout

The body of your page should be inside a tag called the **BODY** tag. Inside this tag you can specify the background color (bgcolor) of the page and the color of the text.

<BODY bgcolor="blue" text="purple">...</BODY>



#### <CENTER>...</CENTER>

Otherwise it will align on the left side of the page.

More Layout

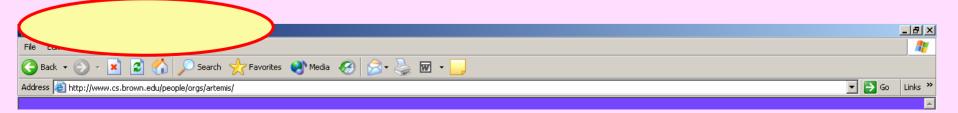
Here are the **TITLE** tags:





If you want the title of the page to appear in the top bar, use the HEAD tags:

<HEAD>...</HEAD>



Layout Example



<HTML> <HEAD> <TITLE> Artemis 2004 </TITLE> </HEAD> <BODY> This will put Artemis 2004 into the web browser containing your webpage. </BODY> </HTML>





 $\bigcirc$ 

Here are some common TAGS you will probably want to use in your webpage:

Bold	<b></b>	
Italic	<i></i>	
<u>Underline</u>	<u></u>	
Bold Italic	<b><i></i></b>	



You can choose what kind of text is on your web page using FONT tags.

You can specify the *font*, color and SiZe (1-7).





HTML is not smart when it comes to spacing. If you hit ENTER at the end of a line, it doesn't know what to do, and just keeps right on going.

If you want a new line, you need a LINE BREAK tag:

#### <BR>

HTML automatically puts one space between everything, and the spaces you want to add are called FORCED SPACES. Any time you want an extra space:

&nbsp



Both of these instructions get inserted where you want the LINE BREAK or FORCED SPACE, they do <u>NOT</u> have end tags.

## Paragraphs

To tell HTML that you want a paragraph, put the text for the paragraph between the P (paragraph) tags:

<P >... </P >

HTML will add an extra space between your paragraphs when you use the paragraph tags, simlar to what happens when you insert a line break (<BR>).



# Paragraph Example

Here is an example of the formatting HTML does to its paragraphs:

This is a paragraph created in HTML. We must remember that in HTML paragraphs have end tags to signify the end of a paragraph.

 at the beginning at the end of each paragraph It is also good to remember that HTML adds an extra space between each paragraph, although it does not indent the first line. HTML adds a space between paragraphs

### Images

Web pages with just text aren't much fun, so you'll want to add images, such as clip art and pictures.





clip art

pictures

When you add an image to a page, you can specify its:

- $\rightarrow$  Height
- $\rightarrow$  Width
- $\rightarrow$  Title

### Image Tag

Suppose the name of the image we want to insert is Artemis.jpg

The tag would look like this:



<IMG src="Images/Artemis.jpg">

Here is that tag again with more attributes:

<IMG src="Images/Artemis.jpg" alt="Artemis 2003" width=200 height=300>
Artemis.jpg" alt="Artemis 2003" width=200 height=300>
Name of the file
Title of picture
Width & Height

# Image Tag src



The IMG tag's src attribute tells the web browser where to look for the picture.

<IMG src="Images/Artemis.jpg">



In this example, the web browser looks in the folder Images and opens the image Artemis.jpg.

# **Links** There are 3 basic types of links

- 1. Anchor goes to somewhere else on the same page
- 2. Internal goes to another page within the same website



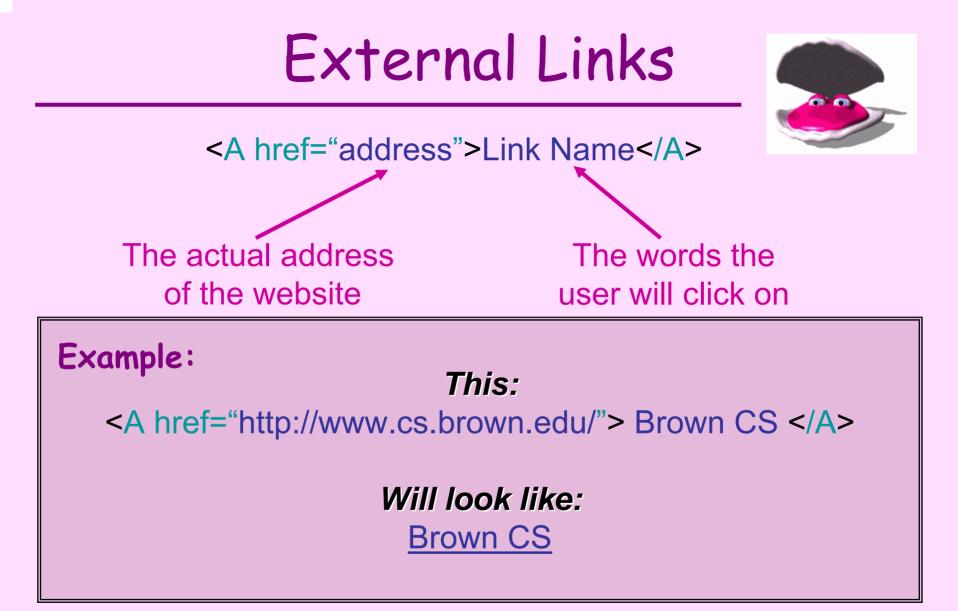
3.



iect

External goes anywhere in the world





Adding target="new" after the address will open the link in a new window.





To specify where on the page you want to link to, you need to name the place on the page to go to:

<A name="name">This is the place you link to.
A name of the target

You can then make links to the target the same way as you make links to other pages, except you add a # to show it's an anchored link:

<A href="#name">Click on me to go somewhere else on the page.</A>

#### Internal Links



This is similar to anchored links except that you put the webpage in front of the # symbol.

For example, if you want to go to the part of the Coordinators.html page that has the name Sara, then you would have the link:



<A href="Coordinators.html#Sara">Sara</A>

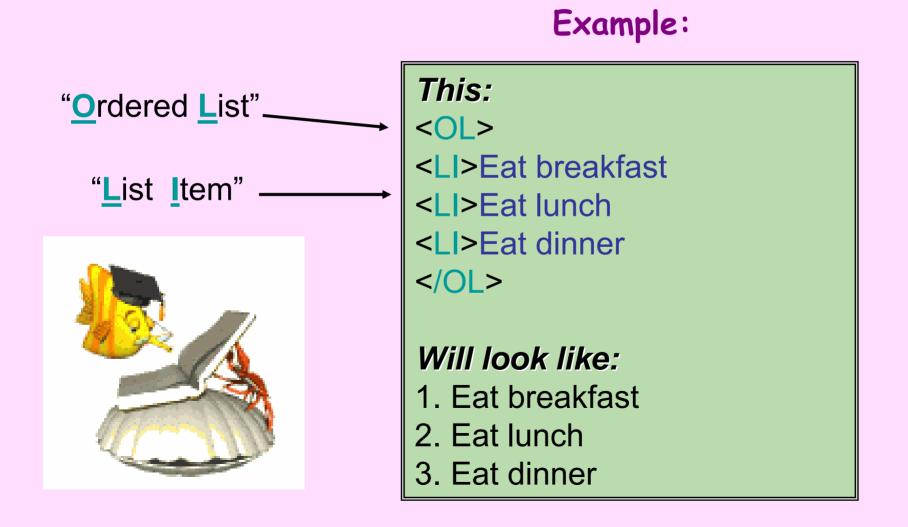


#### There are 3 basic types of lists

- Ordered Lists
- Unordered Lists
- Definition Lists



1. An ordered list – use when you want the items in your list to be numbered.



2. An unordered list – use when you don't need items to be ordered. Items in the list will be bulleted instead of numbered.
Example:

This: "Unordered List" <UL> "List Item" <LI>A loaf of bread <LI>Orange Juice <LI>Milk </UL> Will look like: A loaf of bread **Orange Juice** Milk This is a BULLET

**3. A Definition List** – use when you want to define something

Example: "Definition List" "Definition Term"

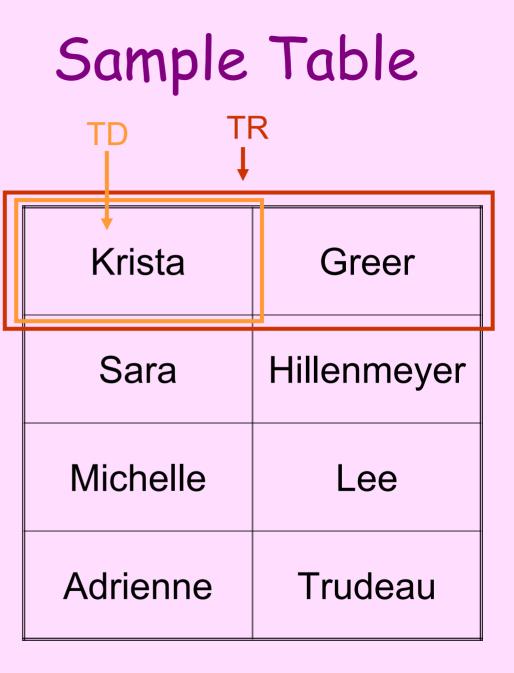


This: < D ><DT>luddite</DT><DD>One who opposes technological change. </DD> <DT>defenestration</DT><DD>The act of throwing something out of a window.</DD> </DI>"Definition Data" Will look like: luddite One who opposes technological change. defenestration The act of throwing something out of a window.

#### Tables

Tables help with the layout of words and pictures on a page.
Each TABLE has TABLE ROWS and each TABLE ROW has TABLE DATA

Table TAG: <TABLE>...</TABLE> Table Row TAG: <TR>...</TR> Table Data TAG: <TD>...</TD> <HTML> <TABLE border=1>  $\langle TR \rangle$ <TD> Krista </TD> <TD> Greer </TD> </TR>  $\langle TR \rangle$ <TD> Sara </TD> <TD> Hillenmeyer </TD></TR>  $\langle TR \rangle$ <TD> Michelle </TD> <TD> Lee </TD> </TR>  $\langle TR \rangle$ <TD> Adrienne </TD> <TD> Trudeau </TD> </TR> </TABLE> </HTML>



# Making Your Table Fancy

**Alignment:** You can align the things in your table using ALIGN and VALIGN.

ALIGN moves your data horizontally (you can tell it to align "left", "right", or "center." For example:

<TD ALIGN="right">

VALIGN moves your data vertically (you can tell it to align "top", "bottom", or "center." For example:

<TD VALIGN="top">

## More Fancy Tables

Inside the TABLE TAG you can specify the following:

- Border
- Cell Padding <--</li>
- Cell Spacing
- Width
- Height

Examples:

Spacing around table data



<TABLE border=1 cellpadding=2 cellspacing=2>

<TABLE width=200 height=300>

# Viewing Your Page

 In a *browser* (such as Internet Explorer), under the File menu, click Open.... In the box that pops up, click the Browse button and find your file.



 If you make changes, click the Refresh button to see their effects.