

# LABS

XXXXYY01

My name is: \_\_\_\_\_. Section: \_\_\_\_\_. Date: \_\_\_\_\_

My code is: CHR<sub>httpWeb</sub><sup>CAS01</sup>

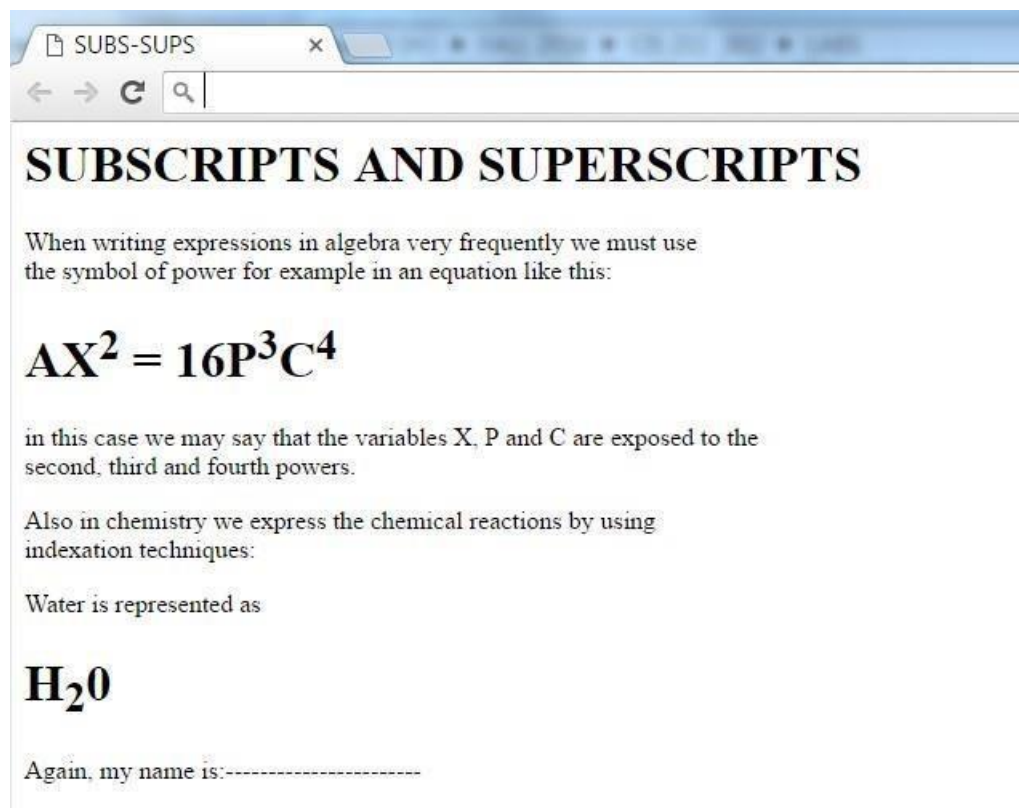
## 7 COMPONENTS

When and where to use these elements.

There are basically 7 components of the web site coding structure

They are: the titles, headings, horizontal rules, paragraphs, lists, page length and the information included in the body of the document

XXXXYY02



The screenshot shows a web browser window with a single tab labeled 'SUBS-SUPS'. The address bar is empty. The page content includes a main heading 'SUBSCRIPTS AND SUPERSSCRIPTS', a paragraph about algebraic notation, a mathematical equation  $AX^2 = 16P^3C^4$ , a paragraph about chemical notation, and a chemical formula  $H_2O$ . At the bottom, there is a form field for a name.

SUBS-SUPS

## SUBSCRIPTS AND SUPERSSCRIPTS

When writing expressions in algebra very frequently we must use the symbol of power for example in an equation like this:

$$AX^2 = 16P^3C^4$$

in this case we may say that the variables X, P and C are exposed to the second, third and fourth powers.

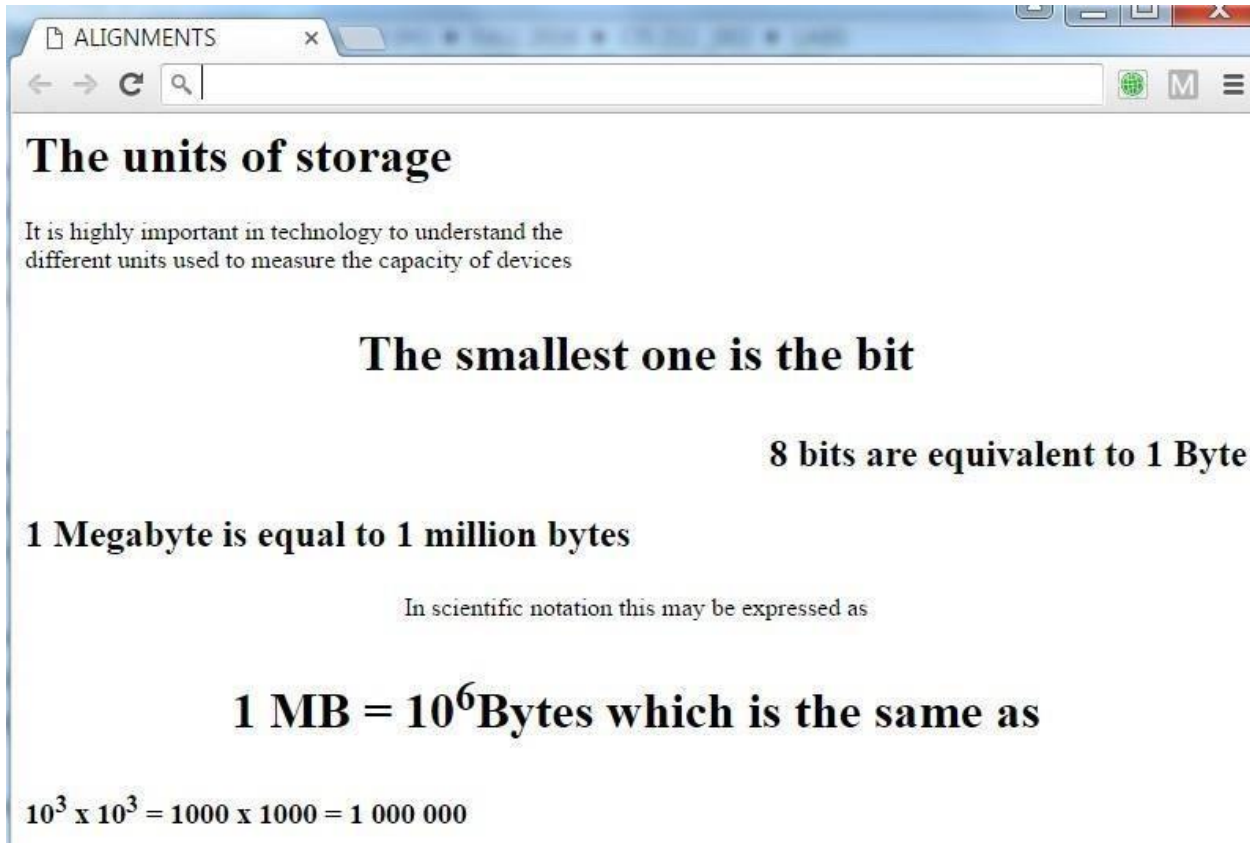
Also in chemistry we express the chemical reactions by using indexation techniques:

Water is represented as

$$H_2O$$

Again, my name is:-----

XXXXYYY03



ALIGNMENTS

## The units of storage

It is highly important in technology to understand the different units used to measure the capacity of devices

### The smallest one is the bit

8 bits are equivalent to 1 Byte

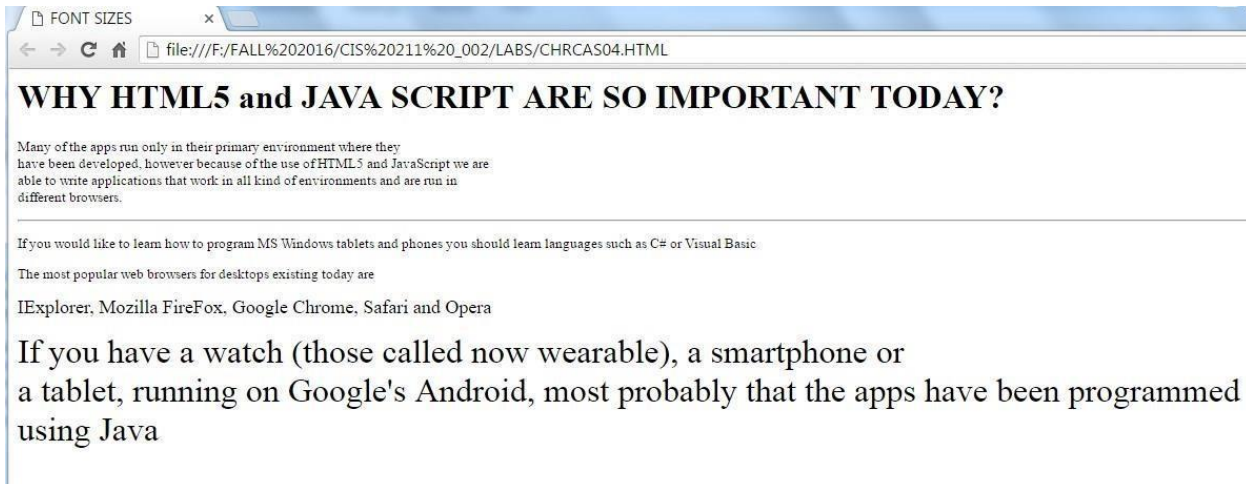
1 Megabyte is equal to 1 million bytes

In scientific notation this may be expressed as

**1 MB =  $10^6$  Bytes which is the same as**

**$10^3 \times 10^3 = 1000 \times 1000 = 1\,000\,000$**

XXXXYYY04



FONT SIZES

file:///F:/FALL%202016/CIS%20211%20\_002/LABS/CHRCAS04.HTML

## WHY HTML5 and JAVA SCRIPT ARE SO IMPORTANT TODAY?

Many of the apps run only in their primary environment where they have been developed, however because of the use of HTML5 and JavaScript we are able to write applications that work in all kind of environments and are run in different browsers.

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If you would like to learn how to program MS Windows tablets and phones you should learn languages such as C# or Visual Basic.

The most popular web browsers for desktops existing today are

IE Explorer, Mozilla FireFox, Google Chrome, Safari and Opera

If you have a watch (those called now wearable), a smartphone or a tablet, running on Google's Android, most probably that the apps have been programmed using Java

XXXXYYY01\_04

SUMMARY 1\_4

file:///H:/FALL%202016/CIS%20211%20\_002/LABS/CHRCAS01\_04.html

# ALIGNMENT FONTS HORIZONTAL RULES

JavaScript is a high-level, dynamic, untyped, and interpreted programming language. It has been standardized in many language specifications.

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If you have a smart phone or other mobile device, you probably use apps – to play games, get turn-by-turn directions, access news, books, weather, and more.

The most popular web browsers for desktops existing today are

A hashtag is a type of label or metadata tag used on social network and microblogging services which makes it easier for users to find messages

The following equation has 2 solutions:  $X_1$  and  $X_2$

$$X_{12}=(A_1)^2+19$$

XXXXYYY06

## Difference between BR, P and NoBR

To make a computer do anything, you have to write a computer program.

To write a computer program, you have to tell the computer step by step exactly what you want it to do.

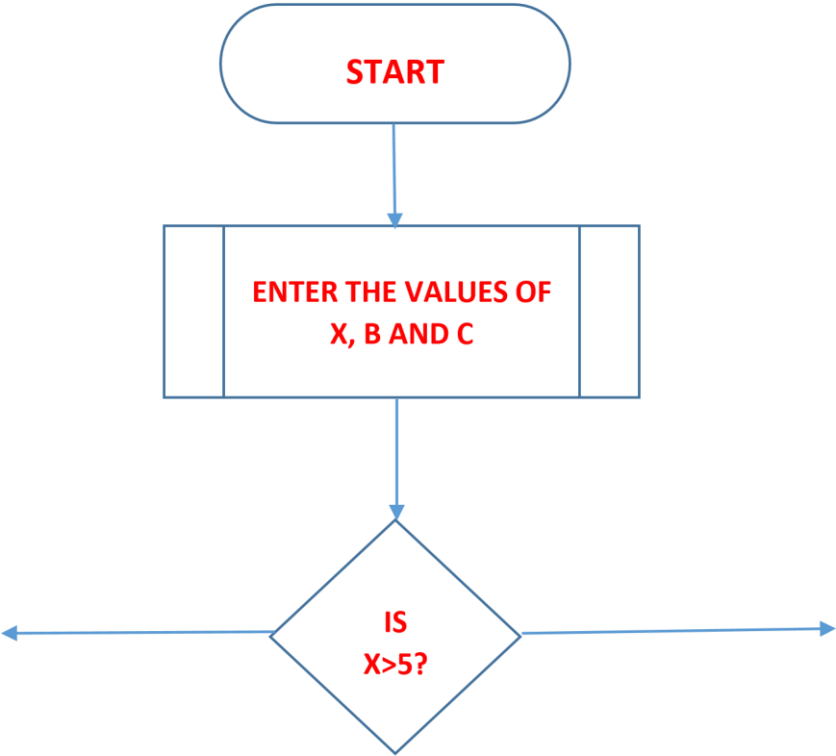
The computer then "executes" the program following each step mechanically to accomplish the end goal.

The computer then "executes" the program following each step mechanically to accomplish the end goal.

When you are telling the computer what to do you also get to choose how it's going to do it.

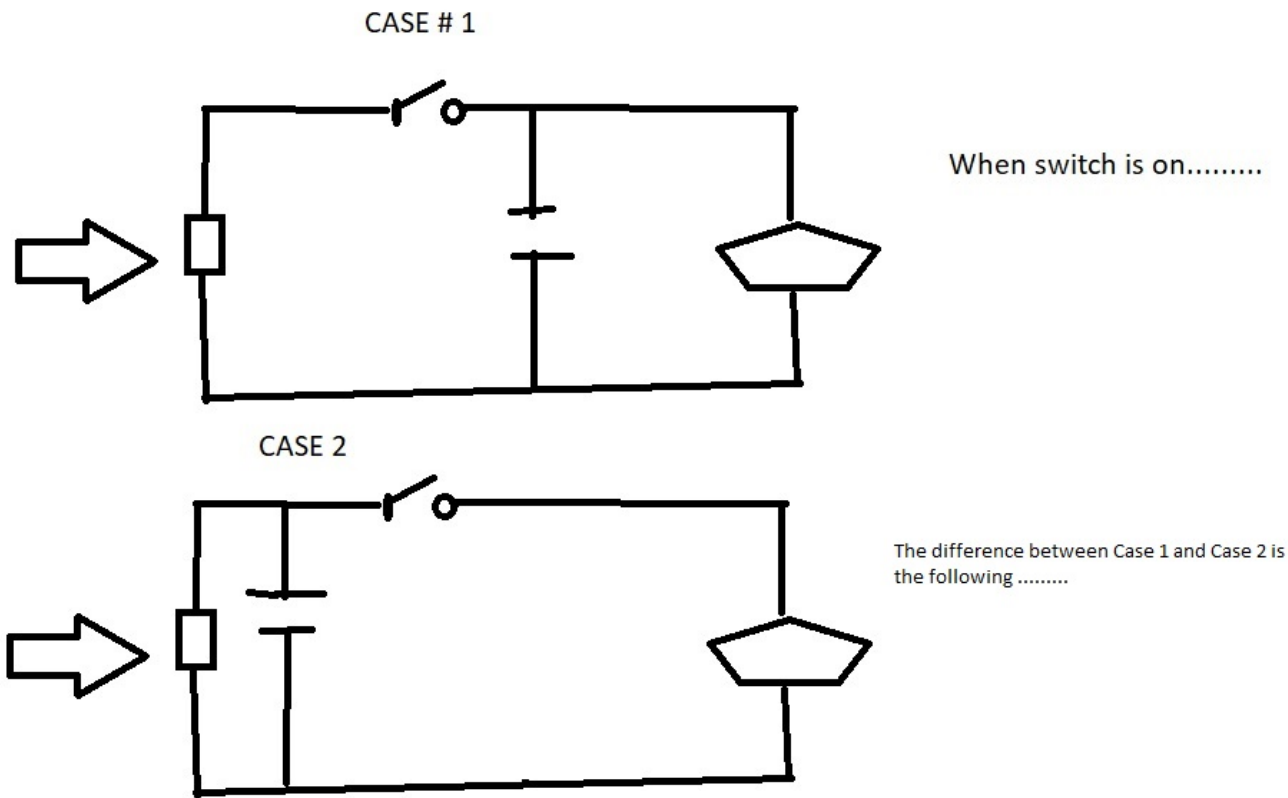
That's where computer algorithms comes in. The algorithm is the basic technique used to get the job done. Let's follow an example to help

**if  $X > 5$  then  $A = B + C$  otherwise  $A = B - C$**



Write HTML codes to show the following diagram

A SWITCH AND AN OULET WORKING INDEPENDENTLY



PRACTICING NAVIGATION x

file:///G:/FALL%202017/CIS%20211/LABS/CHRCAS06b.html

☆



My name is \_\_\_\_\_, designed on \_\_\_\_\_

**Note:** Clicking on left image will bring up XXXYYY02; clicking on right image will bring up XXXYYY06

CONVERTING UNITS
 

×
+

←
→
↻

📄 File | H:/FALL%202019/CIS%20211%20002/LABS/CHRCAS\_BITS.html

# THE USE OF SCIENTIFIC NOTATION

| BITS       | BYTES                  | KILOBYTES | MB    | GB          | TB          |
|------------|------------------------|-----------|-------|-------------|-------------|
| 8000000000 | 1000000000             | 1000000   | 1000  | 1           | 0.001       |
| 8125000000 | 65000000000            | 65000000  | 65000 | 65          | 0.065       |
|            |                        |           |       |             |             |
|            |                        |           |       |             |             |
|            |                        |           |       |             |             |
|            |                        |           |       |             |             |
|            |                        |           |       |             |             |
|            | <=====calculated field |           |       | XXXXYY_BITS | folder labs |
|            | <=====data entry       |           |       |             |             |

These are equivalencies:

\*\*\* 1 GB = 8 x 10<sup>9</sup> \*\*\*\*BITS

\*\*\* \*\*\*\*BYTES

\*\*\* \*\*\*\*KB

\*\*\* \*\*\*\*MB

\*\*\* \*\*\*\*TB

## XXXYYY\_LISTINGS

PRACTICING ORDERED AND UN x +

← → ↻ ⓘ file:///H:/FALL%202018/CIS%20211/LABS/CHRCAS\_LISTINGS.html

### COMPONENTS \*\*\* ORDERED LIST \*\*\*\*\*

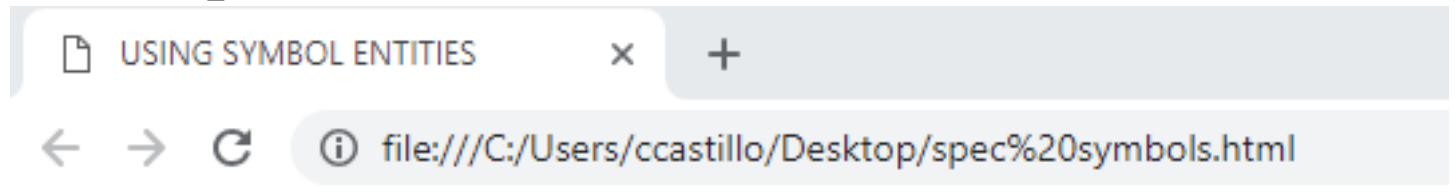
1. Processor
2. Splitter
3. Transmitter
4. Receiver
5. Buffer

#### • UNITS \*\*\*\* UNORDERED LIST \*\*\*\*\*

- Bauds
- Htz
- Gigabytes
- Decibels

### \*\*\*\*\* LISTING WITH IMAGES \*\*\*\*\*

1. 
2. 



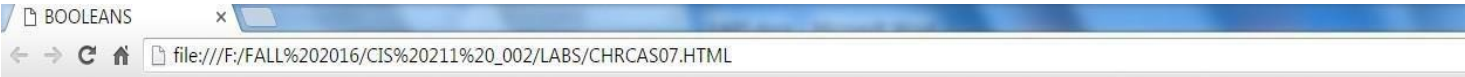
# SYMBOL ENTITIES TABLE

Two ways of representing special symbollic

©  
 ©  
 ®  
 ®  
 €  
 €  
 &  
 &  
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 <  
 >  
 >

nbsp stands for nonbreaking space

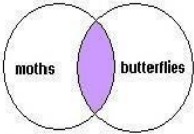
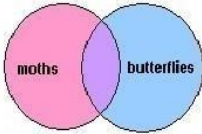
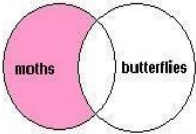
XXXXYYY07



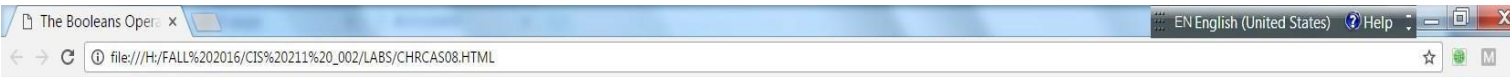
AND, OR AND NOT

Are The Boolean Operators most frequently used

Butterflies and moths have many things in common, mainly scales that cover their bodies and wings

|                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>AND</b><br/>moths AND butterflies</p>  <p>You want to find books that are about both moths AND butterflies</p> | <p><b>OR</b><br/>moths OR butterflies</p>  <p>You want to find books that are about moths, books that are about butterflies, and books that discuss both:<br/><b>OR means MORE.</b></p> | <p><b>NOT</b><br/>moths NOT butterflies</p>  <p>You want to find books that are about moths, but EXCLUDE those that discuss butterflies</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

XXXXYYY08



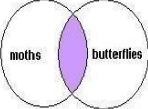
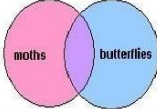
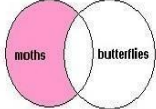
Using an image in webpages

The operators used in web design and programming include & (AND), U (Union, OR) and NOT (Exclusion).

Tags are classified also as independents and dependents. The independent tags may be used by themselves, like the

```
<HR/>
```

tag used to generate a horizontal line (rule).

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

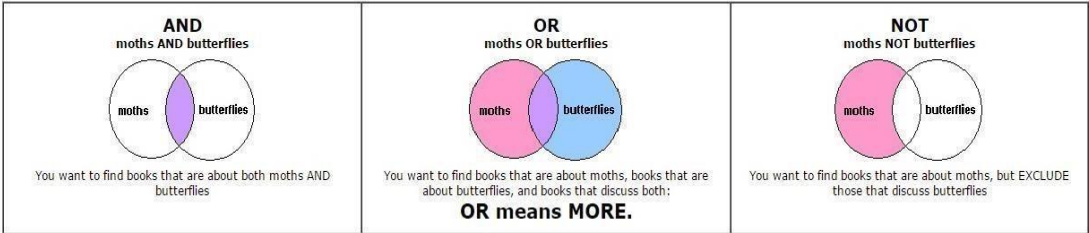
## Using an image in webpages

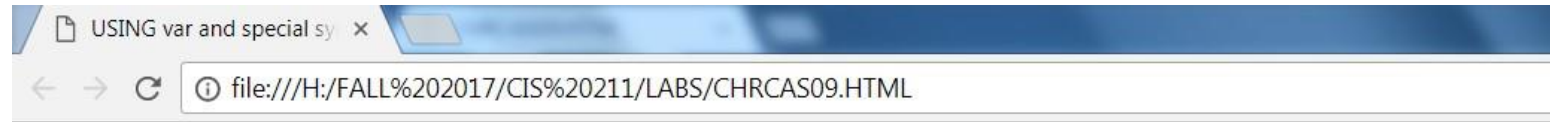
The operators used in web design and programming include *&* (*AND*), *U* (*Union, OR*) and *NOT* (*Exclusion*).

Tags are classified also as independents and dependents. The independent tags may be used by themselves, like the

```
<HR/>
```

tag used to generate a horizontal line (rule).





# COMPLEX FORMULA WITH VARIABLES $e, \pi, \Sigma, \Omega$

A real formula will look like this

$$e = \pi + \Sigma - \Omega$$

$$\cos(\Omega) + i \sin(x) = e^{(xi * \Sigma)}$$

$$e^{\pi i} + 1 = 0$$

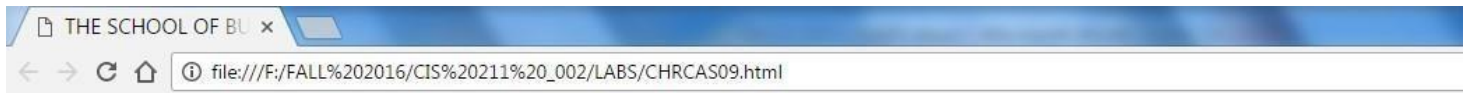
which relates the fundamental constants: 0, 1,  $\pi$ ,  $e$ , and  $i$



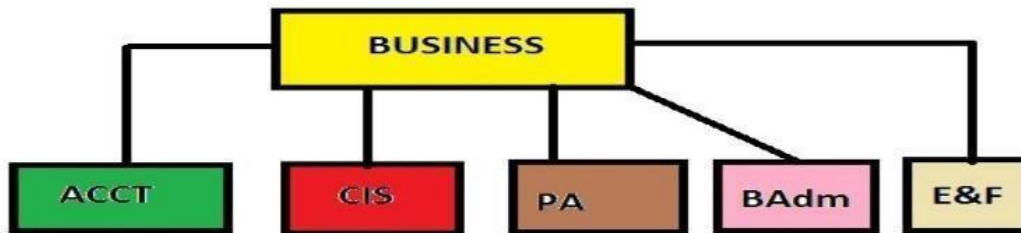
**Note:** You may use the following illustration to complete exercise XXXYYY09

| HTML STATEMENTS                                                                                                                                                                                                                            | RESULT                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <code>&lt;H1&gt;&lt;var&gt;e&lt;/var&gt; , &lt;var&gt;&amp;pi; , &amp;Sigma;<br/>&amp;Omega; &lt;/var&gt;&lt;/H1&gt;</code>                                                                                                                | $e, \pi, \Sigma, \Omega$                       |
| <code>&lt;code&gt;cos(&lt;var&gt;&amp;Omega;&lt;/var&gt;)+&lt;var&gt;i&lt;/<br/>var&gt;sin(&lt;var&gt;x&lt;/var&gt;)=&lt;var&gt;e&lt;/var&gt;&lt;sup<br/>&gt;&lt;var&gt;(xi *<br/>&amp;Sigma;)&lt;/var&gt;&lt;/sup&gt;&lt;/code&gt;</code> | $\cos(\Omega) + i \sin(x) = e^{(xi * \Sigma)}$ |
| <code>&amp;hearts;</code>                                                                                                                                                                                                                  | ♥                                              |

XXXYYY10



## BUSINESS DISCIPLINES



These are The School of Business Disciplines

1. *Accounting*
2. *Computer Information Systems*
3. *Business Administration*
4. *Public Administration*
5. *Economics & Finance*

XXXXYYY11



## DESIGN OF LINKED PAGES

Websites are complete abstractions—they really don't exist, except in our heads. When we identify a site as such, what we're really working with a collection of individual linked pages that share a common text, graphic and navigation links in them

1. [My First Lab.](#)
2. [Exercise #7](#)
3. [Alignments and Fonts](#)

XXXXYYY12



## DESIGN OF LINKED PAGES

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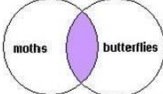
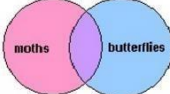
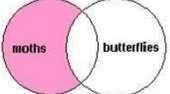
1. [My First Lab.](#)
2. [Exercise #7](#)
3. [Alignments and Fonts](#)

LINKING WEBPAGES
file:///F:/FALL%202016/CIS%20211%20\_002/LABS/CHRCAS12.HTML

## DESIGN OF LINKED PAGES

Websites are complete abstractions—they really don't exist, except in our heads. When we identify a site as such, what we're really working with a collection of individual linked pages that share a common text, graphic and navigation links in them

1. [My First Lab](#)
2. [Exercise #7](#)
3. [Alignments and Fonts](#)

|                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

XXXYYY14

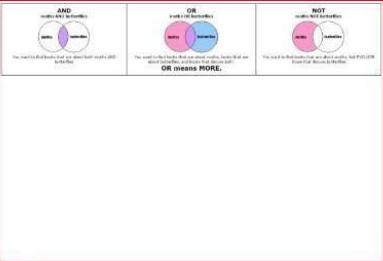
LINKING WEBPAGES x

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## DESIGN OF LINKED PAGES

Websites are complete abstractions—they really don't exist, except in our heads. When we identify a site as such, what we're really working with a collection of linked pages that share a common text, graphic and navigation links in them.

1. [My First Lab](#)
2. [Exercise #7](#)
3. [Alignments and Fonts](#)



XXXXYYY15

LINKING WEBPAGES

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DESIGN OF LINKED PAGES

Websites are complete abstractions—they really don't exist, except in our heads. When we identify a site as such, what we're really working with linked pages that share a common text, graphic and navigation links in them

1. [My First Lab](#)

2. [Exercise #7](#)

3. [Alignments and Fonts](#)

AND  
excludes the intersection

OR  
includes the intersection

NOT  
excludes the intersection

The world's best thing is not just about itself, it's about the world.

The world's best thing is not just about itself, it's about the world.

The world's best thing is not just about itself, it's about the world.

OR means MORE.

XXXXYYY16

LINKING WEBPAGES

file:///F:/FALL%202016/CIS%20211%20\_002/LABS/CHRCAS15.HTML

DESIGN OF LINKED PAGES

Websites are complete abstractions—they really don't exist, except in our heads. When we identify a site as such, what we're really working with a collection of individual linked pages that share a common text, graphic and navigation links in them

1. [My First Lab](#)

2. [Exercise #7](#)

3. [Alignments and Fonts](#)

AND  
excludes the intersection

OR  
includes the intersection

NOT  
excludes the intersection

The world's best thing is not just about itself, it's about the world.

The world's best thing is not just about itself, it's about the world.

The world's best thing is not just about itself, it's about the world.

OR means MORE.

To contact me via email,

[Just click here.](#)

or visit my website at

[Professional Web Designers](#)